



UNIVERSITY OF DAR ES SALAAM



**POSTGRADUATE PROSPECTUS
2021/2022**



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WELCOMING NOTE FROM THE VICE-CHANCELLOR

We are delighted that you have decided to undertake your tertiary studies at the University of Dar es Salaam. This Prospectus describes the range of our courses and different activities done at the University which will give you a flavour of life in our various campuses. The University of Dar es Salaam is a unique community of students and staff dedicated to bringing out the best in all its members. Our aim is to provide the best possible environment for teaching, learning research and public services. Our track record of success is well known in East Africa, Africa and the rest of the world. We will continue to ensure that your years at this University will be filled with excitement and experiences that you can treasure for a lifetime. We also recognise that the quality of student experiences derives from more than academic study. That is why the University encourages students to join and actively participate in activities of the students' union and use various sports and recreational facilities available, e.g. swimming pool, cricket, athletics and soccer fields. The University of Dar es Salaam is also at the interface of national and international higher education innovations and initiatives.

The University has taken all reasonable steps to make sure that the information in this Prospectus about course contents, structure, teaching facilities and staffing is accurate and up-to-date. Students are however warned that, due to logistical limitations, the University cannot guarantee that all the elective courses featured in this Prospectus will necessarily be offered during this academic year.

For health safety especially during this era of Covid-19 pandemic, the University strongly encourages wearing of face masks, and the use of hand-sanitizers among the staff members and students to protect themselves from the pandemic. The University, through its Health Centre, is among the Covid-19 Vaccination Centres in Tanzania. Therefore, students are encouraged out of their own willingness to get vaccination against Covid-19.

I hope that you will find this Prospectus useful and interesting. Should you not find what you are looking for, please do not hesitate to contact the Directorate of Postgraduate Studies for further assistance.

Once again, I warmly welcome you to the University of Dar es Salaam and look forward to working with you towards the achievement of your academic ambitions.

Prof. William-Andey Lazaro Anangisye
VICE-CHANCELLOR
2021`

INTRODUCTION TO THE UNIVERSITY OF DAR ES SALAAM

The University of Dar es Salaam is the oldest public university in Tanzania. It is situated on the western side of the city of Dar es Salaam, occupying 1,625 acres on the observation hill. It is 13 kilometers from the city centre. It was established on 1st July 1970 through parliament act no. 12 of 1970 and all the enabling legal instruments of the constituent colleges.

The University is currently focusing on extending postgraduate training including PhD by coursework and dissertation, distancing e-learning programmes and increasing the diversity of programmes on offer. The Vision 2061 motivates the University of Dar es Salaam to excel in postgraduate studies through benefiting programmes and learning environment thus builds on a solid foundation to reach new heights of excellence nationally and globally as the premier institution for postgraduate education, innovation, and discovery.

The University has eight campuses – UDSM Mwalimu J. K. Nyerere Main Campus, the Institute of Marine Sciences (IMS) located in Zanzibar; the School of Journalism and Mass Communication (SJMC) located in Mikocheni, Dar es Salaam; the College of Information and Communication Technology (CoICT) in Kijitonyama, Dar es Salaam, University of Dar es Salaam Mineral Resources Institute (UDSM – MRI) in Dodoma and Nzega, Mbeya College of Health and Allied Science (MCHAS) located in Mbeya; the Dar es Salaam University College of Education (DUCE) located at Chang’ombe, Dar es Salaam; and the Mkwawa University College of Education (MUCE) located in Iringa. Every year, candidates are admitted into the University of Dar es Salaam to pursue various degree programmes/courses tenable at the said campuses.

The University has continued to grow and expand in terms of diversified academic programmes and student numbers. The number of students admitted at the University of Dar es Salaam has been increasing steadily. There were only 14 students in 1961. Presently, the University has a population of over 40,000 students pursuing undergraduate and postgraduate degrees and non-degree programmes respectively. With regard to academic programmes, the University offers various programmes leading to the award of certificates, diplomas, undergraduate, postgraduate diploma, Masters and PhD degrees.

The University admits local students as well as foreign students from several countries worldwide through established links, exchange programmes or individual applications. Most of the postgraduate students receive their bursaries from their respective governments. Also, students from other countries are considered for admission to undergraduate and postgraduate studies on self-sponsored basis.

GENERAL INFORMATION

A: STUDENT ADMINISTRATION

The Department of Student Administration, headed by the Dean of Students, deals primarily with the personal and social welfare aspects of the student's life. The following facilities are provided by the office of Dean of Students: residence, games and sport, worship, student counseling on various problems and career guidance. The Dean of Students also assists the Deputy Vice Chancellor (Administration) in student disciplinary matters.

Residence

A limited number of rooms in the Halls of Residence is available on application before the beginning of the academic year. Accommodation in the halls is therefore not guaranteed for every student. Therefore, students are urged to find their own accommodation outside the halls. Presently, there are seven Halls of Residence on the Mwalimu Julius Nyerere Mlimani campus. There are also residential places for students at Hon. Dr. John Pombe Joseph Magufuli Hostels, Ubungo Hostels, Mabibo Hostels, Kunduchi Hostels and CoICT Hostels.

Payment of rent is made to the University Students Accommodation Bureau (USAB) offices located near Hall V premises and through the NBC Ltd. on campus. No student will be given a room in the Halls of Residence until s/he has paid the prescribed rent. Priority for on-campus accommodation is given to students with disabilities, foreign students, and female students from up country.

Student Activities

Most of the student activities are organized by DARUSO, the students' union. DARUSO is concerned with the students' academic, political, social and recreational activities. Students are encouraged to form academic/professional organizations. They are also encouraged to form and join social organizations that have been registered. New social and academic organizations are registered at the Dean of Students office.

Games and Sports

The University main campus has a range of sporting facilities. These include an international size track field, a swimming pool, tennis courts, soccer pitches, netball and basketball courts, hockey and cricket fields. A well-equipped gymnasium, badminton and squash courts are also available.

Students can therefore participate in recreational activities such as athletics, swimming, lawn tennis, table tennis, soccer (football), basketball, netball, hockey, badminton, cricket, handball and boxing to have fun, maintain healthy lifestyles, and socialize.

Religious Activities

Students and staff of the University of Dar es Salaam have complete freedom of worship based on their spiritual beliefs, within the limitations of the laws of the country and Student By-Laws. At the Mwalimu Nyerere Campus, there is a Mosque for Moslems whereas Christians' worship services are conducted at the Joint Christian Chapel. Both facilities are situated near Hall No. 4 along Biafra and Kilimahewa Roads.

Catering

The University offers cafeteria services for all meals to students at subsidised rates. The meals are paid for at the cafeteria counters. There are three cafeterias and the number of canteens on the main campus which have the capacity to serve the present student population. Other food outlets available on the main campus are found at CoET, Administration Block, Hill Park, Magufuli Hostel and UDASA Club.

B: MEDICAL SERVICES

The University of Dar es Salaam Health Centre (UHC) provides preventive, curative and restorative health services to University students, staff and the general public. The Centre is located within the Mwalimu Julius Nyerere Mlimani Campus. The University also runs dispensaries located at Mabibo Students' Hostels, IMS (Zanzibar), Magufuli Hostel, Dispensing Room at the School of Journalism and Mass Communication (Kijitonyama) and College of Information, Communication and Technologies (Kijitonyama).

Students who fall sick shortly before, or during examinations, are advised to immediately report to relevant authorities in their respective departments and then to the Health Centre for treatment and further directives. All requests to postpone examinations or studies on medical ground must be accompanied by an official medical report from the attending doctor.

HIV and AIDS remain one of the world’s most significant public health challenges particularly in low and middle-income countries. The age group which is mostly affected is that aged 15 - 49. Current data show that more than 50% of HIV new infections occurred in youth aged 19 - 24. Abstaining from sex, being faithful, limiting number of sexual partners to one who is not infected, consistent and correct use of condom, avoiding abusing alcohol and drugs which may impair one’s judgment, avoiding sharing needles or syringes and being circumcised if one is a male are some of the measures to prevent HIV transmission.

The Centre is among the identified 550 Covid-19 Vaccination Centres. Students, staff and the general public are strongly encouraged to take precautions and maintain good health practices to protect themselves from the pandemic.

C: UNIVERSITY OF DAR ES SALAAM LIBRARY

The University of Dar es Salaam Library is the heart of University’s academic and research endeavor that provides information services to support teaching, learning and research functions of the University. The University of Dar es Salaam Library is an academic unit which is fully involved in supporting academic and research activities of the institution. The library is operated by both academic and administrative staff whereby the former are involved in teaching, research, consultancy services as well as managerial functions, and the latter are involved in direct provision of library services. The University Library is a national depository, which collects materials published in Tanzania and are housed in the East Africana Collection. These materials include books, journals, research reports, Government and University publications. It also includes materials on the former East African Community, the Liberation Movement and SADC publications.

The library has three managerial departments namely: Reader Services, Technical Services and Research and Special Collection. Each department is headed by an academic member of staff who oversees functions of the respective departments. The library has three subject based collections namely; Arts and Social Sciences, Law and Science and Engineering. Other collections are Reference and Document Delivery and East Africana. These collections provide specialized services to users undertaking research and courses in various subject areas. These collections consist of books, journals and other materials in the respective subject areas, both in print and electronic information services. Electronic resources are accessible on-campus using the University Internet and off-campus to illegible members of the University academic community.

The library has an ICT section which is managed by systems administrators who oversee the smooth running of ICT network and equipment. In addition, the Library has a training wing known as Information Studies Programme that offers Bachelor, Master and PhD degree programmes in Library and Information Studies as well as Records and Archives Management.

Library Opening Hours:

| DURING SEMESTER TIME | | | |
|-----------------------------|-------------------|--------------|--------------------|
| WEEK DAYS | DAY TIME | BREAK | NIGHT |
| Monday - Saturday | 8:00 am - 6:30 pm | 1 Hour | 7:30 pm - 10:30 pm |
| Sunday | 2:00 pm - 6:30 pm | 1 Hour | 7:30 pm - 10:30pm |
| Public Holidays | 8:00 am - 6:30 pm | 1 Hour | 7:30 pm - 10:30 pm |

| DURING VACATION | | |
|--------------------------|-------------------|--------|
| Monday - Friday | 8:00 am - 5:00 pm | Closed |
| Saturday | 8:00 am – 3:30 pm | Closed |
| Sunday & Public Holidays | Closed | Closed |

For more information about the library, visit our library web page through the University website www.udsm.ac.tz or contact our help desk through library.helpdesk@udsm.ac.tz.

D: INNOVATION, ENTREPRENEURSHIP AND OUTREACH

The University of Dar es Salaam offers innovation, creativity and entrepreneurship training and skills development through the University of Dar es Salaam Innovation and Entrepreneurship Centre (UDIEC) and other relevant units that are in the Colleges, Schools and Institutes. The mission of the Centre is to promote development of knowledge, skills and technologies that are geared towards solving societal problems through innovations. Our aim is to produce graduates who are job creators rather than job seekers. Students are urged to get involved in the activities of the Centre.

E: TRANSPORT SERVICES

Transport services for students residing off-campus are available at reasonable costs. The transport services are provided by two University shuttle buses, three shuttle buses that were donated to the University by the CRDB Bank and privately owned mini-buses for students residing at Mabibo Hostel. The services run from 06.00 a.m to around 10.00 p.m during the semester.

F: WORSHIP AND SPIRITUAL COUNSELING SERVICES

University students and staff can access worship and spiritual counseling services at the Mosque for Moslems and the Joint Christian Chapel which are both situated near Hall No. 4 along Biafra and Kilimahewa Roads.

G: SECURITY AND SAFETY MANAGEMENT SYSTEMS

The University of Dar es Salaam Security and Safety Management Systems consist of the National Police Station, the University Auxiliary Police Unit and the Private Security Companies which have security contract with the University Management. All students are cautioned to secure themselves and their colleagues by instilling in their minds the attitude of being always alert with security consciousness spirit and self-awareness against unpredicted crimes. Whenever Police assistance is needed, an individual is advised to report immediately by calling the UDSM Police Auxiliary Department through number +255 (0) 737 777044 and +255 (0) 754 333322.

H: SHOPPING FACILITIES

The University has basic shopping facilities at the Mwalimu Julius Nyerere Mlimani Campus as well as Mabibo Hostels. All facilities have been outsourced to private business people. There is a major Shopping Mall at Mlimani City, which is located within the Mwalimu Julius Nyerere Mlimani Campus along Sam Nujoma Road. It is one of the most comprehensive and one stop shopping centre in Dar es Salaam and Tanzania with a bookshop, major banks (NMB, NBC, CRDB, EXIM, KCB etc), a Bureau de Change, Travel Agent, and mobile telephone service providers (TTCL, Vodacom, Halotel, Tigo and Airtel).

I: PUBLISHING AND BOOKSHOP

The University has a bookshop, which is currently operated by elite bookstore. It is located at the Mwalimu Nyerere Mlimani Campus near Cafeteria 1 and 2. Students can also buy books from the bookstore at the Mlimani City Shopping Mall.

J: STATIONERIES, PRINTING, AND PHOTOCOPYING

There are University operating photocopying services situated in the University Library and the College of Engineering and Technology (CoET) offered at reasonable prices to UDSM staff and students. Almost all major academic units and offices have photocopying facilities which are dedicated to staff members. Other printing, photocopying and stationery services are operated by private enterprises and they are located on campus as well as in the neighbourhood.

K: BANK SERVICES

UDSM staff and students can access bank services of major banks (CRDB, NBC and NMB) which have their branches at the Mwalimu Julius Nyerere Mlimani Campus. ATM services are also available on campus. More banks and financial services, including Bureau de Change are available at the Mlimani Shopping Mall which is situated on campus.

L: POSTAL SERVICES

There is a Post Office located at the Mwalimu Nyerere Mlimani Campus near Cafeteria 1 and 2. The office provides all postal services.

DIRECTORATE OF POSTGRADUATE STUDIES (DPGS)

DPGS was established in 1981 as one of the departments under the office of the Chief Academic Officer (CACO). In view of the rapid growth of the postgraduate programmes and students, it was transformed to an effective graduate training institution in 2006 which was later reverted again to DPGS so as to match the currently existing University of Dar es Salaam Organizational Structure. The Directorate of Postgraduate Studies is mandated to administer, coordinate and facilitate all postgraduate studies activities at the University of Dar es Salaam including admission, registration, examination and teaching. The postgraduate student's population increased from about 100 in 1993/94 to about 5,000 in 2020/21. Over the same period, postgraduate programmes increased to over 250.

The University offers a wide range of postgraduate programmes at Postgraduate Diploma, Master and PhD levels. Currently, there are 15 postgraduate diploma, 148 Master and 118 PhD degree programmes. Twenty (22) PhD programmes are offered by Coursework and Dissertation and the rest are offered by research and thesis. The postgraduate programmes range from basic and applied sciences, education, social sciences and humanities to professional degrees in engineering, medicine, law and business administration. It is also possible for one to pursue a PhD degree programme in any academic department at the University of Dar es Salaam provided that the applicant has adequate qualifications, and that supervisors and facilities are available in the chosen field of study.

Detailed information on various programmes is available in this prospectus under the respective academic units, as well as in the booklet on the University of Dar es Salaam General Regulations and Guidelines for Postgraduate Programmes. Additional information is available on the university website: www.udsm.ac.tz.

STRUCTURE AND DURATION OF POSTGRADUATE PROGRAMMES

1.0 GENERAL INFORMATION

1.1. Submission of Applications

The University of Dar es Salaam has launched an Online Application Portal which allows applicants to apply for admission through the following link: www.udsm.admission.ac.tz. The online system for application will be open for three intakes as follows:

- i. **March intake:** applicants may choose for only programmes offered in March or any programme offered by thesis.
- ii. **July intake:** this is specific for only two programmes at UDDBS and UDSOL, namely, Master of Business Administration (Evening) and Master of Intellectual Property.
- iii. **October Intake:** this is for all programmes except for those offered in March by coursework and dissertation.

The procedures for application are available on the university website through www.udsm.ac.tz.

1.2. Application Fees

- i. All applicants are required to pay a non-refundable application fee. The fee should be paid and a receipt uploaded during online application except for foreigners who will effect the payment during registration.
- ii. The fees will be revised from time to time as the need arises. Information on the fees applicable for any given year is obtainable from the College/School/Institute Principals/Deans/Directors, the Director of Postgraduate Studies and the University Prospectus.

1.3. Entry Requirements

1.3.1. Postgraduate Diploma

A person should have at least a bachelor degree, advanced diploma or its equivalent from a recognized higher learning institution. Candidates with equivalent qualifications must also possess at least Secondary School Certificates with credit passes.

Duration: 12 months.

1.3.2. Master Degree

- i. The entry requirements for a master programme by coursework and dissertation requires a person to have at least a lower second class degree (GPA of 2.7) or its equivalent from a recognized higher learning institution. Only candidates with GPA of 3.5 or above in their first degrees are considered for Masters by thesis.
- ii. Applicants who hold unclassified degrees (e.g. B.V. Sc. M.D. etc.) should have at least a B grade average in the subject of the intended Masters. Candidates with Pass degrees will also be considered if:
 - a) Their undergraduate performance in the proposed subject of study was a 'B' grade or higher; and
 - b) They have satisfied the relevant School/College/Institute that they have exhibited potential through subsequent research experience and/or additional training.
- iii. An Advanced Diploma from a recognized higher learning institution with a minimum of an upper second class plus Postgraduate Diploma and Secondary School Certificates.
- iv. A recognized professional qualification (CPA, CSP, ACCA, CA, CIB, MCIM, CMA certificate) plus Secondary School Certificates.

1.3.3. Doctor of Philosophy (PhD) Degree

The University of Dar es Salaam offers a Doctor of Philosophy degree programme either by thesis or by coursework and dissertation. Applicants must have a good relevant Master degree from the University of Dar es Salaam or any other University recognized by TCU.

1.4. Registration

- 1.4.1. Candidates will be registered either for coursework study followed by research leading to a dissertation, or by research leading to a thesis without a prescribed coursework component.

- 1.4.2. Candidates may register as full-time or part-time students. Registration will take place during the first three weeks of Semester I and Semester II for the respective intakes.
- i. Candidates selected for admission shall be required to register at the commencement of the first academic year of their studies.
 - ii. Registration shall take place in the first two weeks of the respective academic year and shall be effected upon submission by the candidate of a duly filled registration form and upon submission of the following:
 - a) Evidence of payment of the University fees;
 - b) Copies and the original transcripts and certificates. [The originals will be returned to the candidate after physical verification];
 - c) Two stamp-size (or passport-size) color photographs; and
 - d) Copy of valid passport for foreign students.
 - i. Candidates shall renew their registration at the beginning of every subsequent year by submitting a duly filled form (UDSM/PG. F2) and upon paying the fees due to the University.
 - ii. Failure to renew registration shall lead to automatic discontinuation from studies.
 - iii. Registration of new and continuing students shall take place within two weeks from the first day of the commencement of the academic year. Students seeking registration during the third week shall be liable to a surcharge paid per day as the Council may from time to time prescribe. No student shall be registered after the fourth week since the commencement of the semester.
 - iv. Registration for purposes of this regulation shall be effected through form UDSM/PG. F1.
 - v. Candidates shall only be registered by names appearing on their certificates or a gazetted Deed Poll showing a legal change of names before registration. No change of names by students shall be entertained during the course of study at the University.
- 1.4.3. No student shall be allowed to postpone studies after effective commencement of an academic year except for special circumstances and upon producing satisfactory evidence of the reason for postponement. For the purposes of this rule, special circumstances shall include:
- a) Sickness;
 - b) Serious social problems (each case to be considered on its own merit); or
 - c) Severe sponsorship problem.
- 1.4.4. Students shall be allowed to be away from the University studies for a maximum of two years if they are to be re-admitted to the same programme and year of study where they left off.
- 1.4.5. Candidates who are desirous of changing subjects/courses/programmes shall be allowed to do so after registration and within two weeks after commencement of the academic year. No candidate shall be allowed to change subjects/courses/programmes after the third week of commencement of the semester.
- 1.4.6. With valid reasons candidates within their studentships may apply for permission to change their study programme delivery modes and campus transfer within the University of Dar es Salaam from the DVC-academic using UDSM/PG. F4.
- 1.4.7. Transferring from one academic programme to another will be allowed only if the candidate possesses the required admission criteria for the programme for which transfer is being sought and a vacancy exists in that programme.
- 1.4.8. Every registered candidate is required to submit a progress report (through the ARIS online system) to his/her supervisor who shall forward to the College/School/Institute through the Head of Department.
- 1.4.9. A candidate who fails to submit a progress report within six months of the due date of submission shall be required to show cause in writing for his/her failure to show progress in studies.

Masters by Coursework and Dissertation

Students who intend to do their Masters degree by coursework will have to observe the following procedures:

- i. To complete the coursework component of the programme a student must pass a minimum number of units, including all prescribed core courses in the programme; and

- ii. On Senate's approval of the results, the candidate proceeds to the dissertation phase of the programme. It is essential that he/she writes and tables a comprehensive proposal in a departmental seminar for the departmental postgraduate studies committee to review and approve.

Masters by Thesis

Having satisfied the admission criteria for Masters Degree by thesis, candidates will have to observe the following procedures:

- i. Within four months of registration, the candidate must have presented a comprehensive substantive research proposal in a departmental seminar for all (especially the Department's Postgraduate Studies Committee) to review;
- ii. Guidelines on writing a research proposal are detailed in appendix II. The proposal should not exceed 20 pages in length, typed in 12-point font (Times New Roman, CG Times or Times) and have double-spaced lines. Each member of the department's postgraduate studies committee should be given a copy of the proposal for scrutiny at least seven days before the date of the seminar presentation;
- iii. If satisfied with the proposal's quality, the department submits the proposal to the School's/Institute's/College's Postgraduate Studies Committee. Students shall present the proposals themselves to the School's/Institute's/College's Postgraduate Studies Committee;
- iv. The School's/Institute's /College's Postgraduate Studies Committee will subsequently approve the proposals and reports to the SPSC for noting;
- v. Research proposals for Masters by thesis candidates must be submitted to the School's/Institute's/College's Postgraduate Studies Committee and approved within six months from the date of formal registration;
- vi. The duration of the registration period for Masters by thesis candidates, including six months of developing and submitting a research proposal, shall be two years for full-time candidates and three years for part-time candidates; and
- vii. Students registered for Masters degree programmes by thesis may, on the recommendation of the relevant College/School/Institute Board, be required to do one or more formal courses appropriate to their fields of study. In addition, students are advised to undertake short courses in Communication Skills and computing.

1.5. Extension of Registration Period

- i. Candidates who, for valid reasons, fail to complete their theses/dissertations within the specified period may apply using UDSM/PG. F18 for an extension of the registration period.
- ii. The student shall pay a monthly extension fee as the Council may from time to time prescribe.
- iii. The extension period shall not exceed six months for full-time and twelve months for part-time candidates at a time.
- iv. Under very special circumstances, the SPSC may consider a further extension of registration period for a maximum of six months provided that the period allowed shall be within the maximum allowable period of registration.

1.6. Postponement of Studies

Postponement of studies shall not be entertained. However, under special circumstances, permission to postpone studies may be considered as per UDSM Postgraduate Guidelines and Regulations 2018, Section 1.5.3, for students at the coursework phase. Students on thesis and dissertation phase shall be required to freeze registration as per regulations Section 1.5.15.

1.7. Freezing Registration

- i. If, for any sound reason, a candidate fails to continue with his/her studies, he/she may apply to the SPSC for freezing of the registration through his/her Department and College, School, or Institute.
- ii. The maximum period for such freezing shall be two years.
- iii. Freezing of registration is not allowed for students during the coursework phase.

1.8. Maximum Period of Registration

- i. The maximum period of registration for a Postgraduate Diploma shall be three years for full-time and four years for part-time students.
- ii. The maximum period of registration for a Masters degree shall be four years for full-time and five years for part-time students.

- iii. The maximum period of registration for a PhD degree shall be six years for full-time and eight years for part-time students.
- iv. A candidate who fails to complete the study programme within the maximum period of registration shall be discontinued from studies.
- v. A candidate who is discontinued from studies for a reason of expiration of maximum registration period shall be informed in writing about such discontinuation. However, failure to access a letter of discontinuation shall not be accepted as a ground for appeal against the discontinuation decision.

1.9. Transfer of Registration

Where it has been specified in a degree programme:

- i. A Postgraduate Diploma candidate with a coursework average of B+ or higher may, on the recommendation of the department and the School/Institute/College Higher Degree Committee, apply to the Senate for permission to transfer registration to that of a Master degree. The Senate will determine the contribution of the work done under Postgraduate Diploma candidacy towards the Master degree applied for. No candidate shall acquire both Postgraduate Diploma and Masters from the same programme.
- ii. A student pursuing a Master degree by thesis may, on the recommendation of the department and college, school or institute concerned, apply through SPSC to the Senate for permission to transfer registration to that of a PhD. In considering the application, the Senate will determine what recognition may be given to the period which the applicant has completed during his or her studentship for Masters, as a contribution towards the fulfillment of the requirements for the degree of Doctor of Philosophy. No candidate shall acquire both Masters and Doctorate from the same programme;
- iii. A student for a Master or PhD degree may, on the recommendation of the Head and Principal, Dean, or Director concerned, apply through SPSC to the Senate at any time before submission of the thesis for permission to transfer registration to that of Postgraduate Diploma or Master degree respectively, subject to the availability of the relevant programme; and
- iv. A PhD or Masters candidate whose thesis examiners are either in disagreement or have recommended thesis revision and resubmission may, on his/her request and recommendation of the college, school, or institute board, transfer registration to a Masters or a relevant existing Postgraduate Diploma programme respectively.

2.0. COURSEWORK EVALUATION

- 2.1 Candidates registered for Postgraduate Diploma, Masters/PhD by coursework and dissertation programmes shall sit for course examinations following assessment procedures approved by the relevant College/School/Institute, SPSC and Senate. Unless stipulated otherwise, the General University Undergraduate Examination Regulations shall be used to guide the conduct of examinations of all postgraduate courses.
- 2.2 In all colleges, schools, and institutes, the relationship between letter grades, award, numerical score and grade points shall be as follows:

| Letter Grade | Award | Numerical Score (%) | Grade Point |
|--------------|---------------------------|---------------------|-------------|
| A | Excellent | 70 – 100 | 5 |
| B+ | Very Good | 60 – 69 | 4 |
| B | Good (min. passing grade) | 50 – 59 | 3 |
| C | Marginal Fail | 40 – 49 | 2 |
| D | Fail | 35 – 39 | 1 |
| E | Absolute Fail | 0 – 34 | 0 |

- 2.3 All coursework examination results must be submitted to the relevant Boards of the Colleges/Schools/Institutes, SPSC and Senate for approval.
- 2.4 Presentation of examination results to Boards of Colleges/Schools/Institutes; SPSC and Senate shall be in accordance with the University approved format.
- 2.5 Candidates must successfully complete the coursework phase before they are allowed to proceed to the dissertation phase. Successful completion of the coursework phase shall mean attainment of a “B” grade or above (i.e. a grade point average (GPA) of at least 3.0) in all examinations.

- 2.6 Candidates who fail in one or more examinations, but whose GPA is 2.7 and above shall be allowed to do supplementary examination(s) in the failed course(s).
- 2.7 Candidates who fail to attain a GPA of at least 2.7 shall be discontinued from studies. Candidates who fail in any supplementary examination and have a GPA of 3.0 and above may be allowed to repeat the failed course(s) but shall not be allowed to proceed to the dissertation phase before passing the failed course.
- 2.8 Candidates who fail to attain a GPA of at least 3.0 after supplementary examinations shall be discontinued from studies.
- 2.9 Departments/Colleges/Schools will administer supplementary examinations within a period of three months of Senate approval of the results.
- 2.10 All courses shall be subjected to the external examination process.
- 2.11 Computation of the final GPA for a degree shall be based on the minimum number of units required to complete a degree programme or the closest number marginally exceeding the prescribed minimum by including:
 - i. All the prescribed core courses; and
 - ii. The best performed elective courses.
- 2.12 Grades of all courses attempted by the candidate shall appear in the transcript.
- 2.13 The General University Undergraduate Examination Regulations shall govern the handling of examination irregularities except for where it is indicated “Undergraduate Studies Committee” should read “Postgraduate Studies Committee”.

3.0 REGULATIONS ON THESIS/DISSERTATION PHASE

3.1 General Regulations

- 3.1.1 Candidates doing a postgraduate programme by coursework and dissertation and who have qualified to continue with the dissertation phase after the coursework part shall be required to submit a dissertation in partial fulfilment of the degree requirements, after a specified period set by the relevant college, school or institute.
- 3.1.2 In the case of some colleges, schools, or institutes where the dissertation constitutes a small proportion of the degree programme (i.e. less than 50% of the study units), the college, school, or institute regulations for the submission and examination of dissertations shall apply.
- 3.1.3 Both dissertations and theses shall be examined and graded with a letter grade according to form UDSM/PG. F9.
- 3.1.4 The grade for the dissertation shall contribute to the final grade point average (GPA).
- 3.1.5 Before the initial submission of the dissertation/thesis, all thesis and dissertation postgraduate candidates shall make a presentation to the departmental postgraduate studies committee which shall approve such submission.
- 3.1.6 All PhD by thesis and dissertation candidates shall be required to produce at least one paper, published or accepted for publication in a journal recognised by UDSM, during the course of their study programme.

3.2 Notice of Intention to Submit a Dissertation

At least three months before submitting a dissertation or a thesis, a candidate shall, through the supervisor, department and college/school/institute, give notice in writing to the Chairperson, SPSC expressing the intention to submit the dissertation/thesis. This notice shall be submitted using form UDSM/PG. F8.

3.3 Academic Dishonesty

- 3.3.1 Acts of academic dishonesty shall include, but are not limited to:
 - a) plagiarism, or
 - b) academic cheating.
- 3.3.2 The term “plagiarism” shall be understood to mean: the presentation of another person’s works (published or not), ideas or creation from any source as if they were one’s own; or presentation of one’s own ideas, previously published or not, without disclosing or acknowledgement. It should be of three categories as detailed in the *UDSM General Regulations and Guidelines for Postgraduates Programmes 2018, Section 3.3*.

4.0 EXAMINATION OF MASTERS THESES/DISSERTATIONS AND DEGREE AWARDS

4.1 General Regulations

- 4.1.1 All Master's candidates must present their dissertations/theses to the departmental postgraduate studies committee to approve that the given dissertation/thesis is ready for examination.
- 4.1.2 Every dissertation/thesis shall be examined by at least two examiners who are specialists in the area and approved by the relevant College/School/Institute Board, SPSC and the Senate. At least one of these must be external to the University.
- 4.1.3 Internal examiners must be members of the academic staff of the University. The candidate's supervisor may not act as the internal examiner.
- 4.1.4 Transmission of theses/dissertations is the official responsibility of colleges, schools, and institutes, using their share of examination fees.
- 4.1.5
 - a) The examiners shall be required to submit their detailed reports on the thesis/dissertation within a period of two months from the date of receipt of the thesis and within a period of one month for a dissertation.
 - b) The examination report shall contain a detailed description and focus as per grading form UDSM/PG. F9.
- 4.1.6 If the reports are not received within three months, new examiners shall be appointed.
- 4.1.7 Each examiner shall also be required to summarise his/her report on the thesis/dissertation by filling in the Summary Form UDSM/PG. F9 with a definite recommendation for one of the following actions.
- 4.1.8 The degree be awarded to the candidate unconditionally;
- 4.1.9 The degree be awarded subject to typographical corrections/minor revisions;
- 4.1.10 The degree be awarded subject to substantial corrections and revisions as indicated in the examination report.
- 4.1.11 The degree not be awarded, but the candidate may be allowed to revise and re-submit the thesis/dissertation for re-examination.
- 4.1.12 The degree not be awarded, but may be resubmitted for a lower award; and
- 4.1.13 The thesis/dissertation be rejected outright.
- 4.1.14 The College/School and Institute Postgraduate Studies Committee shall determine the candidate's dissertation/thesis final grade from recommendations of the department in form UDSM/PG. F10 as extracted from form UDSM/PG. F9.
- 4.1.15 Where the examiners differ significantly (one passes and one fails the candidate or a difference of two grades) in their overall recommendation, the College, School, or Institute Postgraduate Studies Committee shall examine the case and recommend one of the following actions.
- 4.1.16
 - a) The recommendation of the External Examiner be adopted; and
 - b) An additional independent examiner (without knowledge of the previous examiners' assessments) be appointed.
- 4.1.17 The University shall pay honoraria to the External and Internal Examiners at the rate prescribed by the Council and upon receiving detailed and summary reports of the thesis/dissertation under examination. The claims shall be made through filling in forms UDSM/PG. F15 (for Internal Examiner) and UDSM/PG. F16 (for External Examiner).
- 4.1.18 A dissertation or thesis passed subject to typographical corrections/minor revisions must be submitted for degree award within one month from the date of the Senate's approval of the examination results.
- 4.1.19 A dissertation or thesis passed subject to substantial corrections and revisions must be submitted for degree award within three months from the date of the Senate's approval of examination results. The Internal Examiner shall verify the corrections.
- 4.1.20 Only candidates whose theses have been passed in accordance with UDSM Postgraduate regulations 2018, Section 4.1.7 (a) through (c) shall be allowed to sit for viva voce examination.
- 4.1.21 A thesis/dissertation not accepted in accordance with regulation 4.1.7 above must be re-submitted for examination within nine months from the date of the Senate's approval of examination results.
- 4.1.22 A candidate whose thesis/dissertation is rejected in accordance with regulation 4.1.7(f) shall be discontinued from studies.

- 4.1.23 A candidate who fails, without reasonable cause, to submit a postgraduate degree dissertation/thesis within the period stated in 4.1.11, 4.1.12 and 4.1.14 and above shall be discontinued from studies.
- 4.1.24 Where the examiners are not in agreement in their overall recommendation after resubmission, regulation 4.1.9 shall apply.
- 4.1.25 Subsequent publications from a thesis/dissertation submitted for a Masters degree of the University of Dar es Salaam must contain a statement that the work is based on a thesis/dissertation submitted to the University.

4.2 Viva Voce Examinations for Masters Degree by Thesis Programmes

- 4.2.1 In Masters' Degree programmes involving examinations of thesis alone without any prescribed coursework component, the candidate shall, in addition to writing a thesis, appear for a *viva voce* examination.
- 4.2.2 The *viva voce* examination shall take place only after the SPSC and Senate have been satisfied that the thesis submitted by the candidate is considered by the examiners to be satisfactory and shall follow the guidelines as stipulated in ***UDSM Regulation and Guidelines 2018 Section 4.2***

5.0 DOCTOR OF PHILOSOPHY DEGREE (PhD)

5.1 General Regulations for PhD by Coursework and Dissertation Programmes

- i. Candidates must take a minimum of 30 and a maximum of 36 course units per year (minimum of 15 and maximum of 18 units per semester). The minimum number of core course units shall be 9 per semester and 18 per year.
- ii. The additional audited courses taken by students shall not count towards the final number of units that is required.
- iii. All examinations and the students' progress from year to year shall be guided by the regulations in chapter 2.
- iv. Courses shall have a minimum of three units and maximum of six units.
- v. At the end of the coursework part, candidates shall be required to do a comprehensive examination as prescribed by the college, school or institute before they can be allowed to proceed to the dissertation phase.
 - a) A comprehensive examination is a specific type of examination that must be completed by graduate students after completing the coursework part but before embarking on the dissertation part.
 - b) The examination may vary from one academic unit to another, but it must examine the candidate's broad philosophical and conceptual understanding of the subject area, as well as the capacity to develop and communicate logical arguments.
 - c) Comprehensive examinations shall be both oral and written and shall be assessed on a pass or fail basis.
 - d) Oral comprehensive examinations shall not take more than three hours.
 - e) A candidate who fails a comprehensive examination shall be required to take another comprehensive examination as recommended by the examination panel.
 - f) A candidate should be given a minimum of three months to prepare for the comprehensive examination and must pass the examination within a year after completing the coursework.
 - g) A comprehensive examination shall be judged by a panel of experts in the relevant field who possess a PhD. The panel should be constituted by the Principal, Dean, or Director in consultation with Heads of Departments and shall have an odd number of members i.e. 3 or 5. The most senior member shall chair the panel.
 - h) Members shall be given the candidate's written report at least two weeks before the oral examination to allow them to thoroughly read it and prepare for the oral examination.

5.2 Submission of a PhD Thesis/Dissertation

- 5.2.1 The PhD degree examination requires the submission of a thesis/dissertation by the candidate, embodying the results of the research.
- 5.2.2 PhD thesis/dissertation cannot be submitted without publishing at least one journal paper from the work in a journal that is recognized by UDSM Senate. The paper must be attached as an appendix on the submitted thesis/dissertation.

- 5.2.3 The PhD thesis/dissertation maybe submitted either as a single monograph or journal papers in which case:
- i. the candidate shall submit at least 5 journal papers with introduction and conclusion chapters;
 - ii. two of the journal papers must be published in an international journal recognized by UDSM; and
 - iii. the candidate must be the principal author in all journal papers submitted for the award of a PhD degree.
- 5.2.4 Regardless the form of submission (thesis), the thesis shall be an original contribution to the field of research by the student.
- 5.2.5 For thesis by papers, the student should use the introductory section of their thesis to explain and justify in full the nature and extent of the candidate's own contribution and the contribution of co-authors and other collaborators to the publications presented.
- i. A significant proportion of the researched materials should be derived from original research undertaken after the date the student initially registered with this University.
 - ii. The papers shall be inserted and that the pagination sequence should flow throughout the thesis.
- 5.2.6
- i. No candidate may be permitted to submit a thesis/dissertation for the PhD degree in less than 24 months from the date of registration.
 - ii. A PhD candidate may, however, be allowed to submit his/her thesis/dissertation earlier than this if the supervisor and the relevant College/School/Institute Postgraduate Studies Committee is satisfied with the candidate's research contribution of new knowledge.

At least three months before the thesis/dissertation is submitted, the candidate shall, through the supervisor, give notice of intention to submit the thesis/dissertation. He/she should do this in writing to the Chairperson, SPSC using form UDSM PG. F5 and submitting at the same time the proposed title and an outline of the plan and general scope of the thesis/dissertation.

- 5.2.7 Every thesis/dissertation submitted for the degree of Doctor of Philosophy must be satisfactory with respect to its format and text presentation. The thesis/dissertation must contain a one-page abstract, which shall concisely indicate the problem investigated, procedures, research methods employed, general results, new contributions made, and the major conclusion reached.
- 5.2.8 All PhD candidates must present their dissertation/thesis to the departmental postgraduate studies committee for it to approve that the dissertation/thesis is ready for examination.

5.3 Examination of Theses/Dissertations and Award of a PhD Degree

- 5.3.1
- i For every PhD candidate approaching submission the Senate shall appoint, on the recommendation of the relevant College, School, or Institute and the SPSC, at least two qualified examiners, one of whom shall be external to the University of Dar es Salaam. The Examiners shall be required to assess the thesis/dissertation following standards prescribed by the University of Dar es Salaam.
 - ii The internal examiner shall be an expert not involved in the candidate's supervision.
- 5.3.2 Transmission of theses/dissertations is the responsibility of Colleges Schools and Institutes, using their share of examination fees. The Examiners shall be required to submit independent reports on the PhD thesis/dissertation as prescribed under the Masters programme:
- i. The examiners shall be required to submit their detailed reports on the thesis/dissertation within a period of two months from the date of receipt of the thesis/ dissertation.
 - ii. If the reports are not received within three months, new examiners shall be appointed.
 - iii. An internal examiner who fails to submit the report within two months shall be required to show cause for delay. The explanation shall be in writing and be addressed to the DVC-Academic through the respective academic units.
 - iv. The PhD degree be awarded to the candidate unconditionally.
 - v. The degree be awarded subject to typographical corrections and/or minor revisions.
 - vi. The degree be awarded subject to making substantial revisions and corrections as recommended.

- vii. The degree should not be awarded, but the candidate be allowed to revise and resubmit the PhD thesis for re-examination after a further period of study and/or research.
 - viii. The degree should not be awarded, but the candidate be permitted to re-submit the work in a revised form for a Masters' Degree award.
 - ix. The thesis/dissertation be rejected outright.
- 5.3.4 Where the examiners are not in agreement in their overall recommendation, SPSC shall consider the case and recommend one of the following actions:
- i. The recommendation of the External Examiner be taken
 - ii. An additional independent examiner be appointed
- 5.3.5 An Assessment by an additional independent examiner shall form a basis of determining whether the candidate passes or fails the thesis/dissertation.
- 5.3.6 A PhD candidate whose thesis examiners are either in disagreement or have recommended thesis revision and resubmission may on the recommendation of the College/School/Institute Board, transfer registration to a relevant existing Masters programme.
- 5.3.7 The University shall pay honoraria to the External and Internal Examiners at rates prescribed by the Council and upon receiving detailed and summary reports of the thesis under examination.
- 5.3.8 A thesis/dissertation not accepted as per regulation 1.6.4(d) above must be re-written and re-submitted for re-examination within 18 months.
- 5.3.9 Candidates who fail to submit their thesis/dissertation within the period stated in regulation 1.6.9 above shall be discontinued from studies.

5.4 Viva voce Examination for PhD Candidates

- 5.4.1 In addition to writing a thesis/dissertation, the PhD candidate shall appear for a viva voce examination.
- 5.4.2 The viva voce examination shall take place only after the Senate has been satisfied that the thesis/dissertation submitted by the candidate is considered by the examiners to be of acceptable standard as per *UDSM Guidelines and Regulation 2018 Section 7.8*.

6.0 HIGHER DOCTORATE DEGREES

6.1. Definition

- 6.1.1 Higher Doctorate at the University of Dar es Salaam shall mean the degrees of:
- i. Doctor of Literature in the College of Social Sciences (CoSS), College of Humanities (CoHU), School of Education (SoED), School of Journalism and Mass Communication (SJMC), University of Dar es Salaam Business School (UDBS), Institute of Kiswahili Studies (IKS) and Institute of Development Studies (IDS).
 - ii. Doctor of Laws in the University of Dar es Salaam School of Law (UDSoL).
 - iii. Doctor of Science in the College of Engineering and Technology (CoET), the College of Natural and Applied Sciences (CoNAS) and College of Information and Communication Technologies (CoICT), Institute of Marine Sciences (IMS), College of Agriculture and Fisheries Technology (CoAF).
- 6.1.2 The Higher Doctorates are granted for original contribution of distinguished merit to some branch of science or the humanities.

6.2. Eligibility for Candidacy

The following category of members of staff of the University of Dar es Salaam shall be eligible for candidacy for the award of a Higher Doctorate of the University of Dar es Salaam:

- i. Holders of a PhD from the University of Dar es Salaam of at least five years standing;
- ii. Holders of a PhD degree of the former University of East Africa; or
- iii. Holders of a PhD degree or an equivalent from any other recognized university provided that at the time of applying for candidacy, they will have served the University of Dar es Salaam in teaching, research or other approved role for a minimum period of five years.

6.3. Application for Candidacy

- 6.3.1 A candidate for this award shall normally apply for a Higher Doctorate of the College, School, or Institute in which the subject of his/her previous degree(s) was studied.

- 6.3.2. The intending candidate must supply to the relevant College, School, or Institute, through his/her complete Curriculum Vitae and any other documents, sufficient evidence of his/her qualifications for the Higher Doctorate candidacy.
- 6.3.3. The candidate's application must be accompanied by a unifying statement of not more than 5000 words, which concisely but comprehensively sums up his/her significant contribution(s) to knowledge in a chosen field.
- 6.3.4. Together with the unifying statement, the candidate must submit a compilation of his/her important and original published works (excluding works earlier submitted for Masters or PhD degrees). Published works shall mean what is printed as books or papers in reputed journals, or work already accepted for publication. (Serious emphasis is placed on published work to ensure that the work submitted for examination has been available for criticism).
- 6.3.5. The candidate's application for candidacy shall be scrutinised by the appropriate College, School and Institute, and his/her candidature shall be approved through the relevant College, School, and Institute Board, the SPSC and Senate.

6.4 Higher Doctorate Award

- 6.4.1 The examiners shall submit a report on the candidate's published work, recommending in definite terms whether or not the Higher Doctorate should be awarded to him/her.
- 6.4.2 In case of disagreement between the examiners, similar guidelines as those prescribed for Masters and PhD candidates shall be followed. The final approval on the degree award shall be granted by Senate, after it has been satisfied that the work presented makes a substantial and distinct contribution to knowledge.
- 6.4.3 A candidate who fails to qualify for the Higher Doctorate award shall not be allowed to re-apply for the same degree for at least three years.
- 6.4.4 The successful Higher Doctorate candidate shall be required to give a public lecture on his/her contribution before the degree is awarded.

7.0 OCCASIONAL STUDENTS

7.1 Definition

The term "Occasional Student", as applied at the University of Dar es Salaam, shall be taken to mean any student whose study programme lasts for only one semester, or part of a semester.

7.2 Entry Requirements

- 7.2.1 The entry requirements shall be as those prescribed for regular students.
- 7.2.2 The application for occasional studentship must be supported by at least two referees. At least one of these must be an academic member of staff, who is well acquainted with University teaching and research.
- 7.2.3 The admission of an occasional student will take into consideration not only the academic qualifications of the applicant, but also the availability of a local supervisor in the relevant department where the applicant intends to undertake studies.
- 7.2.4 While occasional students are not obliged to sit for the end of semester examinations, they are encouraged to do so. They may be allowed to audit various courses.
- 7.2.5 Occasional students shall pay their fees *pro rata* i.e. in accordance with what is prescribed for regular postgraduate students.
- 7.2.6 Occasional students may register for some undergraduate courses.

8.0 SHORT-TERM STUDENTS

8.1 Definition

The term "Short-term Student" as applied at the University of Dar es Salaam shall be taken to mean any student whose study programme lasts for more than one semester and extends up to one full academic year.

8.2 Entry Requirements

- 8.2.1 The admission qualifications shall be as those prescribed for regular postgraduate students.
- 8.2.2 Short-term students are expected to enroll in their courses for credit. Hence, they shall be required to appear for end-of-semester examinations which are governed by the general university regulations applicable to other relevant postgraduate courses.

- 8.2.3 Short-term students may register for undergraduate courses, in which case relevant undergraduate regulations shall apply.
- 8.2.4 Short-term students may enrol for training by research alone, in which case they will be assigned supervisors to guide them.
- 8.2.5 Short-term students who attain a grade of B or higher in their prescribed postgraduate courses may be allowed to change their status to a Masters degree (and, in exceptional circumstances, to a PhD degree) course.
- 8.2.6 Short-term students shall pay their fees in accordance with what is prescribed for the regular postgraduate students.

9.0 OCCASIONAL, SHORT TERM AND SANDWICH PROGRAMMES

- 9.1 The University of Dar es Salaam has developed links with other academic institutions for collaboration in postgraduate training. Under these arrangements, postgraduate students registered in other universities can have opportunities to conduct part of their studies at the University of Dar es Salaam as occasional or short-term, or students under sandwich programmes as per UDSM postgraduate regulation 2018, Section 8-10.
- 9.2 Postgraduate students registered in other institutions may have the opportunity to conduct part of their studies during the dissertation or thesis phase at the University of Dar es Salaam. Such candidates must send applications to the Senate through the SPSC Board and the respective teaching units at least six months in advance, stating the duration they would like to spend at the University of Dar es Salaam. The application letter must be attached with the following documents:
 - i. Applicant's full curriculum vitae
 - ii. A concise statement of the proposed project, including objectives, description of problem area, methodology, expected outputs, the period of research and places in Tanzania where the work will be carried out
 - iii. Confirmation of availability of financial support to cover travel, fees, research funds and upkeep allowances, and/or any other material support for the intended research
 - iv. Names of two referees who are qualified in the field of research which the applicant wishes to undertake
 - v. Name of contact person in the department of intended study at the University of Dar es Salaam
- 9.3 Upon reporting at the University, postgraduate research students will be required to obtain the following before they can be allowed to conduct research:
 - i. Ethical Clearance, if necessary, from their countries and from the relevant authority in Tanzania; and
 - ii. Research Clearance.
- 9.4 Students who wish to extend their work at the University may apply for renewal at least two months before the expiry of their registration. The renewal letter stating justification for continuation of the registration must be sent to the Senate through the Senate Postgraduate Studies Committee.
- 9.5 The University will pay the staff members supervising the candidates at an approved rate.

10. ENQUIRIES ABOUT POSTGRADUATE STUDIES

- 10.1 All enquiries about postgraduate studies should be addressed to:
 The Director of Postgraduate Studies
 University of Dar es Salaam
 P.O. Box 35091
 DAR ES SALAAM, TANZANIA
 E-MAIL: dpgs@udsm.ac.tz
 Tel. General: +255-22-2410500-9, Ext: 2010
 Tel. Direct: +255-22-2410069; +255-22-2410016

UNIVERSITY OF DAR ES SALAAM FEE STRUCTURE

1.1 Direct University Costs

| Cost Item | Tanzanian Students (TZS) | Non-Tanzanian Students (USD) |
|--|--------------------------|------------------------------|
| Application fee (paid once during application) | 50,000 | 50 |
| Student Union | 20,000 | 15 |
| Registration | 20,000 | 15 |
| Caution Money | 50,000 | 50 |
| Student ID | 5,000 | 5 |
| TCU fee | 20,000 | 20 |

1.2 Direct Student Costs (Payable direct to the student per year)

| Cost Item | Tanzanian Students (TZS) | | | Non-Tanzanian Students (USD) | | |
|---|--------------------------|------------------|------------------|------------------------------|--------------|--------------|
| | PGD | Masters | PhD | PGD | Masters | PhD |
| Stationery | 100,000 | 200,000 | 200,000 | 65 | 125 | 125 |
| Books | 350,000 | 500,000 | 500,000 | 220 | 315 | 315 |
| Stipend | 6,000,000 | 6,000,000 | 7,200,000 | 3,780 | 3,780 | 4,560 |
| Thesis Production* | 0 | 350,000 | 500,000 | 0 | 220 | 315 |
| Independent Study/ Practical Training/ Research Paper/ Teaching Practice for PGDE | 500,000 | 0 | 0 | 500 | 0 | 0 |
| Total | 6,950,000 | 7,050,000 | 8,400,000 | 4,565 | 4,440 | 5,315 |

*Cost for thesis production shall be paid to students in the final year.

1.3 Research Funds

| College/School/Institute | Tanzanian Students (TZS) | | Non - Tanzanian Students (USD) | |
|--|--------------------------|------------|--------------------------------|--------|
| | Masters | PhD | Masters | PhD |
| CoET, CoNAS & IMS | 10,000,000 | 20,000,000 | 6,310 | 12,615 |
| CoICT | 5,000,000 | 15,000,000 | 3,155 | 9,460 |
| UDSE, IKS, SJMC, CoSS, CoHU, IDS, IRA, UDSolL, UDDBS, MUCE & DUCE, MCHAS | 4,000,000 | 12,000,000 | 2,525 | 7,570 |

1.4 Clarification on Research Funds

- i. For Master Programmes, the amount shown is paid once.
- ii. For PhD by Coursework and Dissertation, the amount shown is paid in the third or fourth year of study during the research phase.
- iii. For PhD by thesis, the amount shown covers three years of study.

NB: Tuition Fee for each programme has been indicated in respective academic unit offering that programme. It is also worth to note that Short-Term and Occasional Students shall pay their fees *pro rata*, in accordance with what is prescribed for regular postgraduate students.

SENIOR OFFICERS OF THE UNIVERSITY

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Mkwawa University College of Education (MUCE)

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College of Engineering and Technology (CoET)

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Accountant

H. R. Mishoni, BAF (Morogoro), CPA(T)

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Manager of Mwl. J. K. Nyerere Campus Hostels

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Manager of Mabibo Hostels

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Muatron

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P. A. Manda, BA (Dar), PGD, MA (Wales), PhD (Minnesota)

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* On Study Leave

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**REGULATIONS GOVERNING AWARD OF POSTGRADUATE DEGREES, PROGRAMMES
AND COURSES OFFERED BY COLLEGES**

COLLEGE OF AGRICULTURAL SCIENCES AND FOOD TECHNOLOGY (CoAF)

INTRODUCTION

The College of Agricultural Sciences and Food Technology (CoAF) comprises four departments, namely: Crop Sciences and Beekeeping Technology, Agricultural Economics and Business, Agricultural Engineering, and Food Science and Technology.

CoAF's core mandate is to advance the economic, social and technological development of Tanzania and beyond through excellent teaching, research and knowledge exchange using talented and motivated staff and students with a principal focus on Agricultural Sciences and Food Technologies.

The College is interdisciplinary, offering diverse of programmes in agricultural sciences, natural resource economics and business, technology and engineering. Training puts emphasis on the areas pertaining to post-harvest technologies, processing, value addition, biotechnology, nanotechnology and innovations in agro-technologies.

Specifically, the training will equip graduates in the following fields: irrigation engineering, agricultural mechanization, climate change studies, urban and peri-urban agriculture including horticulture, post-harvest technologies especially agro-processing, value addition and marketing of dairy, poultry, meat, seafood, cereals, fruits, and vegetables, quality seed and feed technologies, agricultural bioengineering, and beekeeping sciences and technologies.

THE POSTGRADUATE PROGRAMMES OFFERED BY THE COLLEGE

- i. Master of Science by coursework and dissertation
- ii. Master of Science by thesis
- iii. Doctor of Philosophy by coursework and dissertation
- iv. Doctor of Philosophy by thesis

Currently, CoAF offers the following postgraduate programmes:

| S/N | Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|-----|--|-----------------------------|------------------|-----------|-----------------|---------------------|
| | | | | | Tanzanian (TZS) | Non-Tanzanian (USD) |
| 1. | Master of Science in Food Science and Technology | Thesis | Full-time | 24 months | 6,375,000 | 8,040 |
| 2. | Master of Science in Integrated Food Security | Coursework and Dissertation | Full-time | 24 months | 4,250,000 | 8,040 |
| 3. | Master of Science in Beekeeping Science and Technology | Thesis | Full-time | 24 months | 6,375,000 | 8,040 |
| 4. | Master of Science in Crop Science and Technology | Thesis | Full-time | 24 months | 6,375,000 | 8,040 |
| 5. | Master of Science in Agricultural | Thesis | Full-time | 24 months | 6,375,000 | 8,040 |

| S/N | Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|-----|---|-----------------------------|------------------|-----------|--------------------|---------------------|
| | | | | | Tanzanian (TZS) | Non-Tanzanian (USD) |
| | Economics and Business | | | | | |
| 6. | Master of Science in Agricultural Engineering | Thesis | Full-time | 24 months | 6,375,000 | 8,040 |
| 7. | Doctor of Philosophy (PhD) in Food Science and Technology | Thesis | Full-time | 36 months | 2,500,000 per year | 4,020 per year |
| 8. | Doctor of Philosophy (PhD) in Integrated Food Security | Coursework and Dissertation | Full-time | 36 months | 3,000,000 per year | 4,020 per year |
| 9. | Doctor of Philosophy (PhD) in Beekeeping Science and Technology | Thesis | Full-time | 36 months | 2,500,000 per year | 4,020 per year |
| 10. | Doctor of Philosophy (PhD) in Crop Science and Technology | Thesis | Full-time | 36 months | 2,500,000 per year | 4,020 per year |
| 11. | Doctor of Philosophy (PhD) in Agricultural Economics and Business | Thesis | Full-time | 36 months | 3,000,000 per year | 4,020 per year |
| 12. | Doctor of Philosophy (PhD) in Agricultural Engineering | Thesis | Full-time | 36 months | 3,387,500 per year | 4,020 per year |

MASTER OF SCIENCE IN INTEGRATED FOOD SECURITY

1. Introduction

The programme consists of two parts: course work (Part I) and dissertation (Part II), extending over a period of two academic years (24 months) distributed into four semesters of full-time attendance from the date of registration. The first two semesters in the first year are spent on course work, with final examinations at the end of each semester; while the second year is devoted to dissertation work. During the second semester of the first year, students are required to develop research proposals detailing the theoretical background and methodology, as a preparation for dissertation work.

The minimum number of credits for graduation is 180, of which 120 are for coursework and 60 for dissertation. Of the coursework credits, each student is required to take 104 credits from core courses and a minimum of 24 credits from elective courses. Completing a course is defined as obtaining a B grade or higher. A student must pass both the course work and the dissertation to qualify for the degree award.

2. Entry Requirements

Admission into the programme will be in accordance with the University of Dar es Salaam regulations regarding postgraduate studies. To be eligible for admission to the programme for each specialization, the applicants should be a holder of a bachelor of science in:

i. Agricultural Mechanization and Food Security

Agricultural Engineering, mechanical engineering, chemical and process engineering and related fields, food science and technology, food and biochemical engineering food, bioprocessing and post harvesting engineering, water and irrigation engineering and related fields.

ii. Crop Science and Food Security

Crop Science, horticulture, agronomy, bioprocessing and post harvesting engineering, Applied agricultural extension, Beekeeping, Food Science and Technology, Agricultural Engineering, Aquatic Sciences and Fisheries Technology, Biotechnological Sciences, Natural Resources Management, Botany, Zoology, Conservation Biology, Wildlife management, Agriculture, Forestry, and Environmental Sciences and related fields.

iii. Aquatic Sciences and Food Security

Aquatic Sciences and Fisheries Technology, Crop Science and Beekeeping, Food Science and Technology, Agricultural Engineering, Biotechnological Sciences, Natural Resources Management, Botany, Zoology, Agriculture general, Conservation Biology, Agriculture, Forestry, and Environmental Sciences, Food and biochemical Engineering, Chemical and Process Engineering and related fields.

iv. Food Technology and Nutrition Security

Food Science and Technology, Human nutrition, Bioprocessing and Post Harvesting Engineering, Food and biochemical Engineering, Chemical and Process Engineering, Aquatic Sciences and Fisheries Technology, Crop Science and Beekeeping, Agricultural Engineering, Biotechnological Sciences, Botany, Zoology, Conservation Biology, Agriculture, Forestry, and Environmental Sciences and related fields.

v. Agricultural, Natural Resources Economics and Food Security

Agricultural and Natural Resources Economics and Business, Natural Resources Management, Agricultural Economics and Business and related fields.

3. Assessment and Examinations

The UDSM general examination regulations apply.

4. List of Courses

Year 1

Common Core Courses

| Course Code | Course Title | Credits |
|--|---|-----------|
| FS 600 | Market Access for Agricultural and Food products | 12 |
| FS 601 | Environment, Food and Society | 12 |
| FS 602 | Food and Nutrition Security for Sustainable Development | 12 |
| FS 603 | Economic Policy Analysis and Management | 12 |
| FS 702 | Integrated Research Methods | 20 |
| Total number of common core credits | | 68 |

Core Courses for Food Technology and Nutrition Security Stream

| Course Code | Course Title | Credits |
|-------------------------------------|-----------------------------------|-----------|
| FS 706 | Advanced food process engineering | 20 |
| FS 708 | Food nutrition and dietetics | 20 |
| Total number of core credits | | 40 |

Core Courses for Agricultural Mechanization and Food Security Stream

| Course Code | Course Title | Credits |
|-------------------------------------|--|-----------|
| FS 604 | Farm Machinery and Mechanization | 12 |
| FS 605 | Water Management for Food Production | 12 |
| FS 606 | Design and Management of Farm Produce Storage Structures | 12 |
| Total number of core credits | | 36 |

Core Courses for Aquatic Sciences and Food Security Stream

| Course Code | Course Title | Credits |
|-------------------------------------|---|-----------|
| FS 607 | Principles of aquaculture and production | 12 |
| FS 608 | Bioeconomic Modeling in Fisheries and Aquaculture | 12 |
| FS 609 | Remote Sensing and GIS in Fisheries and Aquaculture | 12 |
| Total number of core credits | | 36 |

Core Courses for Crop Science and Food Security Stream

| Course Code | Course Title | Credits |
|-------------------------------------|------------------------|-----------|
| FS 610 | Crop Protection | 12 |
| FS 611 | Pollination Ecology | 12 |
| FS 612 | Crop Science Practical | 12 |
| Total number of core credits | | 36 |

Core Courses for Agricultural, Natural Resources Economics and Food Security Stream

| Course Code | Course Title | Credits |
|-------------------------------------|--|-----------|
| FS 613 | Economics and Management of the Agri-Food System | 12 |
| FS 614 | Quantitative Methods, Measurements and analysis | 12 |
| FS 705 | Agriculture, Food and Natural Resource Economics | 20 |
| Total number of core credits | | 44 |

Elective Courses for Food Technology and Nutrition Security Stream

| Course Code | Course Title | Credits |
|---|--|-----------|
| FS 620 | Computer Application for Food Industry | 12 |
| FS 621 | Nutraceuticals and Indigenous Foods | 12 |
| Total number of elective credits | | 24 |

Elective Courses for Agricultural Mechanization and Food Security Stream

| Course Code | Course Title | Credits |
|---|---|-----------|
| FS 623 | Renewable Energy Applications and Crop Drying | 12 |
| MG 639 | Technology Transfer and Commercialization | 12 |
| Total number of elective credits | | 24 |

Elective Courses for Aquatic Sciences and Food Security Stream

| Course Code | Course Title | Credits |
|---|---------------------------------------|-----------|
| FS 625 | Integrated Coastal Zone Management | 12 |
| FS 626 | Fisheries and Aquaculture Regulations | 12 |
| Total number of elective credits | | 24 |

Elective Courses for Crop Science and Food Security Stream

| Course Code | Course Title | Credits |
|---|--|-----------|
| FS 627 | Soil-Water and Crop Production System | 12 |
| FS 628 | Honey production, Processing, value addition and Marketing | 12 |
| Total number of elective credits | | 24 |

Elective Courses for Agricultural, Natural Resources Economics and Food Security Stream

| Course Code | Course Title | Credits |
|---|--|-----------|
| FS 630 | Global Economic perspectives of Food security | 12 |
| FS 631 | Economics of Agricultural production and food security | 12 |
| Total number of elective credits | | 24 |

Year 2

| Semester I | | |
|-------------|--|---------|
| Course Code | Status | Credits |
| FS 699 | Research proposal development and presentation, Field work/laboratory experiment and data collection | |
| Semester II | | |
| FS 699 | Dissertation | 60 |

DOCTOR OF PHILOSOPHY IN INTEGRATED FOOD SECURITY

1. Introduction

This is a full-time programme using a mixed mode of taught courses and dissertation research.

2. Assessment and Examinations

For the taught part, coursework assessment weighs 50% and the final examination makes up another 50% of the total marks. The dissertation carries 100% of the total course assessment. In addition to sitting for and passing the examinations, candidates are required to do a comprehensive examination before they are allowed to proceed with dissertation. The dissertation may be submitted either as a single monograph or at least 5 journal papers with introduction and conclusion chapters as stipulated under section 6.5.3 of the General Regulations and Guidelines for Postgraduate Programmes. Two of the journal papers must be published or accepted for publication in international journals recognized by the University of Dar es Salaam. The aim is to train candidates to write acceptable manuscripts and instill a culture of publishing scientific results.

3. Entry Requirements

The applicants should be holders of a Masters degree (MSc in Food Engineering and Processing, Biotechnological Sciences, Food Science, Food Technology, Food Quality and Safety Assurance, Food Safety and Public Health, Integrated Food Security, Natural Resources Management, Botany, Zoology, Conservation Biology, Wildlife management, Agriculture, Forestry, and Environmental Sciences and Management and related fields) or an equivalent Master degree from a higher learning institution recognized by the UDSM. Entry requirements will follow University of Dar es Salaam criteria as stipulated under section 1.4.3 of the General Regulations and Guidelines for Postgraduate Programmes.

4. List of Courses

Common Core Courses

Year 1: Semester I

Common Core Courses

| Course Code | Course Title | Credits |
|-------------------------------------|---|-----------|
| FS 700 | Climate change, Agriculture and food security | 20 |
| FS 703 | Advances in Postharvest pests and diseases | 20 |
| Total number of core credits | | 40 |

Core Courses for Natural Resource Management and Food Security Stream

| Course Code | Course Title | Credits |
|-------------------------------------|--|-----------|
| FS 704 | Environment and food security | 20 |
| FS 705 | Agriculture, Food and natural resource Economics | 20 |
| Total number of core credits | | 40 |

Core Courses for Food Engineering and Processing Stream

| Course Code | Course Title | Credits |
|-------------------------------------|-----------------------------------|-----------|
| FS 706 | Advanced food process engineering | 20 |
| FS 708 | Food nutrition and dietetics | 20 |
| Total number of core credits | | 40 |

Core Courses for Agricultural and Livestock Production and Productivity Stream

| Course Code | Course Title | Credits |
|-------------------------------------|---|-----------|
| FS 710 | Biotechnology and food security | 20 |
| FS 711 | Tropical Ruminant and Non-Ruminant Production Systems | 20 |
| Total number of core credits | | 40 |

Core Courses for Fisheries and Aquaculture Stream

| Course Code | Course Title | Credits |
|-------------------------------------|----------------------------------|-----------|
| FS 712 | Health management in aquaculture | 20 |
| Total number of core credits | | 20 |

Elective Courses for Natural Resource Management Stream

| Course Code | Course Title | Credits |
|---|--|-----------|
| FS 630 | Global Economic perspectives of Food security | 12 |
| FS 631 | Economics of Agricultural production and food security | 12 |
| Total number of elective credits | | 24 |

Elective Courses for Food Engineering and Processing Stream

| Course Code | Course Title | Credits |
|---|----------------------------------|-----------|
| FS 718 | Fruit and vegetable technologies | 20 |
| Total number of elective credits | | 20 |

Elective Courses for Agricultural and Livestock Production and Productivity Stream

| Course Code | Course Title | Credits |
|---|-------------------|-----------|
| EV 715 | Stress Physiology | 24 |
| Total number of elective credits | | 24 |

Elective Courses for Fisheries and Aquaculture Stream

| Course Code | Course Title | Credits |
|---|---|-----------|
| AQ 712 | Ecology of fishes | 24 |
| AQ 720 | Social and environmental impacts of fisheries and aquaculture | 24 |
| Total number of elective credits | | 48 |

Year 1: Semester II

Common Core Courses

| Course Code | Course Title | Credits |
|-------------------------------------|--|-----------|
| FS 701 | Food postharvest and value addition technologies | 20 |
| FS 702 | Integrated research methods | 20 |
| Total number of core credits | | 40 |

Core Courses for Natural Resource Management and Food Security Stream

| Course Code | Course Title | Credits |
|-------------------------------------|---|-----------|
| RM 705 | Food Security, Agriculture and Natural Resource | 30 |
| Total number of core credits | | 30 |

Core Courses for Food Engineering and Processing Stream

| Course Code | Course Title | Credits |
|-------------------------------------|---|-----------|
| FS 707 | Food product development and innovation | 20 |
| Total number of core credits | | 20 |

Core Courses for Agricultural and Livestock Production and Productivity Stream

| Course Code | Course Title | Credits |
|-------------------------------------|------------------------------------|-----------|
| FS 709 | Agrobiodiversity and food security | 20 |
| Total number of core credits | | 20 |

Core Courses for Fisheries and Aquaculture Stream

| Course Code | Course Title | Credits |
|-------------------------------------|--|-----------|
| FS 713 | Advanced brood stock selection techniques | 20 |
| FS 714 | Quality management and value addition in fisheries | 20 |
| Total number of core credits | | 40 |

Elective Courses for Natural Resource Management Stream

| Course Code | Course Title | Credits |
|---|--|-----------|
| FS 715 | Environmental Economics and Management | 20 |
| FS 716 | Agricultural economics | 20 |
| Total number of elective credits | | 40 |

Elective Courses for Food Engineering and Processing Stream

| Course Code | Course Title | Credits |
|---|-------------------|-----------|
| FS 719 | Grains processing | 20 |
| Total number of elective credits | | 20 |

Elective Courses for Agricultural and Livestock Production and Productivity Stream

| Course Code | Course Title | Credits |
|---|-------------------|-----------|
| EV 715 | Stress Physiology | 24 |
| Total number of elective credits | | 24 |

Elective Courses for Fisheries and Aquaculture Stream

| Course Code | Course Title | Credits |
|---|-----------------------|-----------|
| AQ 723 | Aquaculture Economics | 24 |
| Total number of elective credits | | 24 |

Year 3 & 4: Dissertation

| Course Code | Status | Credits |
|-------------|--------|---------|
| FS 799 | Core | 400 |

POSTGRADUATE PROGRAMMES BY THESIS

- i. Master of Science in Food Science and Technology
- ii. Master of Science in Beekeeping Science and Technology
- iii. Master of Science in Crop Science and Technology
- iv. Master of Science in Agricultural Engineering
- v. Doctor of Philosophy in Food Science and Technology
- vi. Doctor of Philosophy in Beekeeping Science and Technology
- vii. Doctor of Philosophy in Crop Science and Technology
- viii. Doctor of Philosophy in Agricultural Economics and Business
- ix. Doctor of Philosophy in Agricultural Engineering

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*J. D. Gonsalves, BSc (Morogoro)

*I. F. Rikohe, BSc (Dar)

*M. J. Malley, BSc (Dar)

*A. R. Kidabaga, BSc (Dar)

B. Y. Tonola, BSc (Dar)

Lab Scientist

*W. Masele, BSc (Morogoro)

Lab Technician

**J. J. Chiza

Department of Agricultural Economics and Business

Senior Lecturer and Head

R. Katikiro, BSc (Morogoro), MSc, PhD (Bremen)

Senior Lecturers

A. Hepelwa, BA (Dar), MA (Kampala), PhD (Brussels)

R. Katikiro, BSc (Morogoro), MSc, PhD (Bremen)

Lecturers

M. Mbwana, BSc, MSc, PhD (Morogoro)

I. John, BA, MA, PhD (Dar)

Assistant Lecturers

C. Sinje, BCom, MIB (Dar)

*C. L. Domician, BCom, MIT (Dar)

*G. Mapunda, BA, MA (Dar)

*F. Mbegallo, BSc, MSc (Morogoro)

M. S. Zungo, BSc, MSc (Morogoro)

S. M. Ngozi, BSc (Morogoro), MSc (Egerton)

E. Mushi, BSc, MSc (SUA)

D. Mgeni, BSc (Morogoro), MSc (Copenhagen)

Tutorial Assistants

*S. Hassan, BA (Dar)

*J. W. Msangi, BSc (Morogoro)

*E. Jackson, BSc (Dar)

Department of Food Science and Technology

Senior Lecturer and Head

L. D. Kaale, BSc, MSc (Dar), PhD (Trondheim)

Senior Lecturers

L. M. P. Rweyemamu, MSc (Moscow), PhD (Bergakademie Freiberg)

O. Kibazohi, BSc (Dar), MSc, PhD (Waterloo)

L. D. Kaale, BSc, MSc (Dar), PhD (Trondheim)

Lecturer

V. V. Matabura, BSc (Dar), MSc (Ghent), PhD (Leuven)

Assistant Lecturers

*I. S. Kinyoro, BSc (Morogoro), MSc (Tuskegee)

*F. D. Gonelimali, BSc (Dar.), MSc (Zhejiang)

*M. G. Mathias, BSc, MSc (Dar)

R. M. Fortunatus, BSc (Morogoro), MSc (Florida)

Tutorial Assistants

*A. W. Mwakosya, BSc (Dar)

S. Damla, BSc (Dar)

*S. J. Kitigwa, BSc (SUA)

Department of Agricultural Engineering

Lecturer and Head

A. N. Towo, BSc (Dar), MSc (Auburn), PhD (Bath)

Lecturers

A. N. Towo, BSc (Dar), MSc (Auburn), PhD (Bath)

A. J. Mahinda, BSc (Morogoro), MSc (Nairobi), PhD (Kyoto)

Assistant Lecturers

*J. Mohamed, BSc, MSc (Morogoro)

*P. C. Ngimbwa, BSc (Dar), MSc (Ohio)

*P. S. Milindi, BSc (Morogoro), MSc (Ohio)

Tutorial Assistants

P. G. Limu, BSc (Dar)

V. F. Tsoray, BSc (Morogoro)

P. Massay, BSc (Morogoro)

F. Enos, BSc (Dar)

*On Study Leave

** On Sabbatical Leave

***On Leave of Absence/Secondment

COLLEGE OF ENGINEERING AND TECHNOLOGY (CoET)

INTRODUCTION

The College of Engineering and Technology (CoET) offers postgraduate programmes leading to the award of Postgraduate Diploma in Engineering, Master of Science in Engineering and Doctor of Philosophy (PhD) in major fields of Engineering specialization i.e. Chemical and Process Engineering, Civil Engineering, Electrical Engineering and Mechanical Engineering. The degree of MSc (Eng.) is either offered by Coursework and Dissertation mode or by Research and Thesis. The PhD degree is offered by thesis. CoET offers the following postgraduate programmes:

PROGRAMMES OFFERED BY THE COLLEGE

| S/N | Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|-----|---|-----------------------|------------------|-----------|-----------------|---------------------|
| | | | | | Tanzanian (TZS) | Non Tanzanian (USD) |
| 1. | Postgraduate Diploma in Chemical and Process Engineering | Coursework and Report | Evening | 12 months | 3,050,000 | 4,020 |
| 2. | Postgraduate Diploma in Environmental Engineering | Coursework and Report | Evening | 12 months | 3,050,000 | 4,020 |
| 3. | Postgraduate Diploma in Electrical Power Engineering | Coursework and Report | Evening | 12 months | 3,050,000 | 4,020 |
| 4. | Postgraduate Diploma in Mechanical Engineering (PGD-ME) with specialization in <ul style="list-style-type: none"> ▪ Production Engineering ▪ Energy Engineering | Coursework and Report | Evening | 12 months | 3,050,000 | 4,020 |
| 5. | Postgraduate Diploma in Engineering Management (PGD-EM) | Coursework and Report | Evening | 12 months | 3,050,000 | 4,020 |

| S/N | Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|-----|---|-----------------------------|------------------|-----------|-----------------|---------------------|
| | | | | | Tanzanian (TZS) | Non Tanzanian (USD) |
| 6. | Postgraduate Diploma in Civil Engineering (PGD Eng) with specialization in: <ul style="list-style-type: none"> ▪ Water Resources Engineering; ▪ Structural Engineering; ▪ Transportation Engineering | Coursework and Report | Evening | 12 months | 3,050,000 | 4,020 |
| 7. | Master of Science in Integrated Environmental Management (MSc IEM) Offered jointly with the College of Natural and Applied Sciences (CoNAS) | Coursework and Dissertation | Full-time | 18 Months | 4,781,500 | 6,030 |
| 8. | Master of Science in Chemical and Process Engineering | Thesis | Full-time | 24 months | 6,375,000 | 8,040 |
| 9. | Master of Science in Chemical and Process Engineering | Coursework and Dissertation | Full-time | 18 Months | 4,781,500 | 6,030 |
| 10. | Master of Science in Power Electronics and Electrical Drives, MSc (PE & ED) | Coursework and Dissertation | Full-time | 18 months | 4,781,500 | 6,030 |
| 11. | Master of Science in Power Systems and High Voltages, MSc (PS & HV) | Coursework and Dissertation | Full-time | 18 months | 4,781,500 | 6,030 |
| 12. | Master of Science in Electrical Engineering | Thesis | Full-time | 24 months | 6,375,000 | 8,040 |
| 13. | Master of Science in Production Engineering | Thesis | Full-time | 24 months | 6,375,000 | 8,040 |
| 14. | Master of Science in Production Engineering, (MSc PE) | Coursework and Dissertation | Full-time | 18 months | 4,781,500 | 6,030 |

| S/N | Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|-----|---|-----------------------------|------------------|-----------|-----------------|---------------------|
| | | | | | Tanzanian (TZS) | Non Tanzanian (USD) |
| 15. | Master of Science in Energy Engineering | Thesis | Full-time | 24 months | 6,375,000 | 8,040 |
| 16. | Master of Science in Energy Engineering, (MSc EN) | Coursework and Dissertation | Full-time | 18 months | 4,781,500 | 6,030 |
| 17. | Master of Science in Renewable Energy | Thesis | Full-time | 24 months | 6,375,000 | 8,040 |
| 18. | Master of Science in Renewable Energy, (MSc RE) | Coursework and Dissertation | Full-time | 18 months | 4,781,500 | 6,030 |
| 19. | Master of Engineering Management, (MEM) with specialization in <ul style="list-style-type: none"> ▪ Information Communication Technology Management (ICTM) ▪ Project Management (PM) | Coursework and Dissertation | Full-time | 18 months | 4,781,500 | 6,030 |
| 20. | Master of Engineering Management, (MEM) with specialization in <ul style="list-style-type: none"> ▪ Project Management and ICTM for evening programme ▪ Project Management for Online programme | Coursework and Dissertation | Evening | 24 months | 6,375,000 | 6,030 |
| 21. | Master of Engineering Management, (MEM) with specialization in | Coursework and Dissertation | Full-time | 18 months | 4,781,500 | 6,030 |

| S/N | Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|-----|---|-----------------------------|------------------|-----------------------------------|-----------------|---------------------|
| | | | | | Tanzanian (TZS) | Non Tanzanian (USD) |
| | Techno-Entrepreneurship | | | | | |
| 22. | Master of Science in Oil and Gas Technology | Thesis | Full-time | 24 months | 6,375,000 | 8,040 |
| 23. | Master of Science in Oil and Gas Technology | Coursework and Dissertation | Full-time | 18 months | 4,781,500 | 6,030 |
| 24. | Master of Science in Construction Management | Thesis | Full-time | 24 months | 6,375,000 | 8,040 |
| 25. | Master of Science in Construction Management, (MSc CM) | Coursework and Dissertation | Full-time | 18 months | 4,781,500 | 6,030 |
| 26. | Master of Science in Structural Engineering | Thesis | Full-time | 24 months | 6,375,000 | 8,040 |
| 27. | Master of Science in Structural Engineering, (MSc STE) | Coursework and Dissertation | Full-time | 18 months | 4,781,500 | 6,030 |
| 28. | Master of Science in Highway Engineering, MSc (HE) | Coursework and Dissertation | Full-time | 18 months | 4,781,500 | 6,030 |
| 29. | Master of Science in Water Resources Engineering | Thesis | Full-time | 24 months | 6,375,000 | 8,040 |
| 30. | Master of Science in Water Resources Engineering, MSc (WRE) | Coursework and Dissertation | Full-time | 18 months | 4,781,500 | 6,030 |
| 31. | Master of Integrated Water Resources Management | Thesis | Full-time | 24 months | 6,375,000 | 8,040 |
| 32. | Master of Integrated Water Resources Management, (MIWRM) | Coursework and Dissertation | Full-time | 18 months (starts in March, 2017) | 4,781,500 | 6,030 |
| 33. | Master of Integrated Sanitation | Coursework and Dissertation | Full-time | 18 months | 4,781,500 | 6,030 |

| S/N | Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|-----|--|------------------|------------------|-------------------------|--------------------|---------------------|
| | | | | | Tanzanian (TZS) | Non Tanzanian (USD) |
| | Management, (MISM) | | | (starts in March, 2017) | | |
| 34. | Master of Science in Integrated Sanitation Management | Thesis | Full-time | 24 months | 6,375,000 | 8,040 |
| 35. | Doctor of Philosophy (PhD) in Chemical Engineering | Thesis | Full-time | 36 months | 3,387,500 per year | 4,020 per year |
| 36. | Doctor of Philosophy (PhD) in Electrical Engineering | Thesis | Full-time | 36 months | 3,387,500 per year | 4,020 per year |
| 37. | Doctor of Philosophy (PhD) in Renewable Energy | Thesis | Full-time | 36 months | 3,387,500 per year | 4,020 per year |
| 38. | Doctor of Philosophy (PhD) in Mechanical Engineering | Thesis | Full-time | 36 months | 3,387,500 per year | 4,020 per year |
| 39. | Doctor of Philosophy (PhD) in Construction Engineering | Thesis | Full-time | 36 months | 3,387,500 per year | 4,020 per year |
| 40. | Doctor of Philosophy (PhD) in Structural Engineering | Thesis | Full-time | 36 months | 3,387,500 per year | 4,020 per year |
| 41. | Doctor of Philosophy (PhD) in Transportation Engineering | Thesis | Full-time | 36 months | 3,387,500 per year | 4,020 per year |
| 42. | Doctor of Philosophy (PhD) in Geotechnical Engineering | Thesis | Full-time | 36 months | 3,387,500 per year | 4,020 per year |
| 43. | Doctor of Philosophy (PhD) in Integrated Sanitation Management | Thesis | Full-time | 36 months | 3,387,500 per year | 4,020 per year |

| S/N | Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|-----|---|------------------|------------------|-----------|--------------------|---------------------|
| | | | | | Tanzanian (TZS) | Non Tanzanian (USD) |
| 44. | Doctor of Philosophy (PhD) in Water Resources Engineering | Thesis | Full-time | 36 months | 3,387,500 per year | 4,020 per year |

In addition to the general university regulations governing the award of higher degrees, the following regulations shall apply.

MASTER OF SCIENCE IN ENGINEERING BY THESIS

CoET offers a Master of Science in Engineering by research and thesis in all major fields of specialization.

1. Entry Requirements

The minimum qualification for admission to the programme is an Upper Second Class of Bachelor of Science in respective engineering field from the University of Dar es Salaam or another recognized institution.

2. Programme Structure

- i. The registration period for the programme shall normally be 24 months for full-time students up to 48 months for part-time students (This period includes the six months period given for registration).
- ii. Registration for the programme shall be at any time during the academic year. The registration shall be renewed annually.
- iii. Upon registration with the help of the Department's Supervisory Committee, the candidate will submit a two-page statement of the intended research topic to the Departmental Postgraduate Committee. On the basis of the statement, the department shall assign supervisor(s) to the candidate. Studentship commences with immediate effect.
- iv. Within four months of the assignment of supervisor, the candidate shall present a comprehensive substantive proposal in a departmental seminar (Department's Postgraduate Committee Members should attend).
- v. The proposal shall not exceed 20 pages in length, typed in at least 12-point font and double-spaced line.
- vi. Each member of the Department's Postgraduate Committee will be given a copy of the proposal for scrutiny at least seven days before the date of the seminar presentation.
- vii. Once the Department's Postgraduate Committee finds the proposal satisfactory, it will approve it and notify the College PSRP Committee and the Senate Postgraduate Studies Committee (SPSC).
- viii. Maximum period for the registration process is six months. Candidates will pay TZS 50,000 for each month extension beyond the six months.
- ix. Students may, on the recommendation of the relevant College Board, be required to do one or more formal courses appropriate to their fields of study. In addition, students are advised to undertake short courses in Communication Skills and Computing.
- x. If, for any sound reason, a candidate fails to continue with studies, he/she may apply to Senate for freezing of the registration through his/her Department, College Postgraduate Studies & Research (PGS&R) Committee and SGS Board. The maximum period for such freezing of registration shall be two years.
- xi. A candidate, for valid reasons, may apply for extension of the registration period. Extensions shall not exceed six and twelve months for full-time and part-time students respectively.
- xii. A Candidate who fails to complete studies within specified period shall be discontinued, unless the Senate has approved application for extension.

DOCTOR OF PHILOSOPHY (PhD) IN ENGINEERING

CoET offers Doctor of Philosophy degree in all major fields of Engineering specialization.

1. Entry Requirements

- i. For admission to the PhD degree programme in the CoET, a candidate must hold a relevant Masters degree from the University of Dar es Salaam or any other recognized Institution.
- ii. Candidates who possess a relevant First Class in Bachelor of Science may be considered for PhD registration after initially registering for the Masters Degree (Thesis), and demonstrating outstanding performance after doing postgraduate training for at least one year, upon recommendations of the College PGS&R Committee and authorization by the Senate.

2. Programme Structure

- i. The programme involves a minimum of three years for full-time candidates, or five years for part-time registered candidates.
- ii. The procedure for obtaining full registration will be similar to that required for MSc (Thesis) as stipulated in sections 2, (i) to (xiii) above, with the following changes: the proposal shall not exceed 25 pages; and (in section 2, (viii) above) once it finds the proposal satisfactory, the College PPGS&R Committee will approve the proposal and notify the SPSC.
- iii. The general University regulations for postgraduate studies and specifically for PhD studies govern the conduct of studies in the College.

3. Sandwich Programmes

CoET offers PhD training by the sandwich mode. This is mainly in areas where the facilities and research infrastructure in CoET are deemed inadequate to provide quality research. The award of PhD Training under the sandwich mode is also offered in line with the frameworks of collaborative research programmes with other universities. The following are the basic guidelines for conducting PhD under this mode.

- i. Entry requirements and registration procedure are the same as stipulated in section 1, (i) and (ii).
- ii. The procedure for obtaining full registration will be similar to that required for MSc (Thesis) as stipulated in sections 2, (ii) to (xiii) above with the following changes: the proposal shall not exceed 25 pages; and (in section 2, (viii) above) once it finds the proposal satisfactory, the college PSRP will approve the proposal and notify the SPSC.
- iii. The candidate must provide evidence of financial support to enable him/her carry out the external part of the study.
- iv. The candidate must spend at least 24 months at the University of Dar es Salaam for the whole period of study.
- v. Candidates who register in other universities, but they wish to do part of their study at the University of Dar es Salaam, may do so and will be admitted under the status of “Short term students” and the University guidelines for this form of study will apply.
- vi. The University of Dar es Salaam Guidelines and Regulations for postgraduate studies apply for all matters related to the conduct of research, submission of thesis, examinations and award of the Doctor of Philosophy degree under the sandwich programme.

MASTER OF SCIENCE IN ENGINEERING BY COURSEWORK AND DISSERTATION

CoET offers master degree programmes in all present specializations by coursework and dissertation.

1. Entry Requirements

- i. The minimum qualification for admission to any of the Master degree programmes offered by CoET is a lower second-class Bachelor of Science in a corresponding field of Engineering from the University of Dar es Salaam (UDSM) or any other recognised higher learning institution.
- ii. A corresponding Postgraduate Diploma offered by the CoET, UDSM or any other recognised institution may also suffice for consideration for admission to any of the Master in Engineering programmes.
- iii. For admission to the Master of Engineering Management Programmes, holders of lower second class undergraduate degree in Hydrology, Hydrogeology, Transport Management, Architecture, Town Planning, Land Surveying, Quantity Surveying (Building Economics), and Information Technology, Computer Studies, Electronics Science, Statistics and other applied sciences may also be considered.

- iv. For admission to the Master of Integrated Environmental Management and Integrated Water Resources Management programmes, holders of lower second-class undergraduate degree in any engineering or science discipline will be considered.
- v. The Admission Board will also consider applicants with any other equivalent qualification not mentioned above, subject to the Senate approval.

2. Structure of Programmes

- i. The programmes shall comprise of coursework and dissertation. Full-time students shall complete their coursework within the first 2 semesters of enrolment.
- ii. Part-time candidates shall include those following evening programmes to complete their coursework within the first 18 months of enrolment.
- iii. The minimum time for the dissertation phase shall be 6 months.
- iv. The credit system shall be used to gauge the workload involved in a programme.
- v. One credit is equal to learning outcomes achievable in 10 hours of learning time determined on the basis of a learner with an average learning speed.
- vi. A minimum of 120 credits shall be completed to satisfy the coursework requirement before proceeding to the dissertation phase, unless stated otherwise. A dissertation shall have 60 credits
- vii. A department offering a programme shall specify the field of specialization and the minimum coursework credits from core and elective courses for a particular specialized field. Certain core courses may be compulsory.
- viii. In addition, a candidate may be required to take certain undergraduate courses that are pre-requisites for some postgraduate courses. These, however, will not be considered in the final degree evaluation.

3. Assessment

- i. Each course module shall be offered and assessed in the same semester and a grade awarded.
- ii. A department offering a Master programme shall specify the field of specialization and the minimum coursework credits from core and elective courses for a particular specialized field.
- iii. With the approval of the respective CoET College Board, coursework completed in postgraduate studies at other universities may contribute to the coursework requirements for the MSc degree. The equivalent weighting of this coursework will be determined by the respective CoET College Board in accordance to the University Qualification Framework set by the Tanzania Commission for Universities (TCU).
- iv. The average grade for all postgraduate courses must be at least “B”.
- v. A candidate whose GPA is below 2.7 shall be discontinued from the programme.
- vi. A candidate whose overall GPA is 2.7 or above, shall be allowed to do supplementary examinations in the failed courses.
- vii. The maximum grade that can be attained from a supplementary examination shall be “B”.
- viii. Candidates who fail in more than one supplementary examination shall be discontinued from the programme.
- ix. Candidate who fails in only one supplementary examination shall be allowed to repeat the failed course.
- x. A candidate who repeats a course and fails in the first sitting examination shall not be allowed to sit for a supplementary examination, and shall be discontinued from the programme.
- xi. Final examination shall be held immediately upon completing a course. The weighting of this final examination in determining the grade for the course shall be the University Examination (60%) and Continuous Assessment (40%). The form of assessment shall be specified by respective instructors at the beginning of the course.
- xii. For the dissertation phase, the candidate in consultation with the supervisor shall formulate a research proposal.
- xiii. The Departmental Postgraduate Studies Coordinator must file the proposed names of the members of the panel to evaluate the candidate’s research proposal with the Postgraduate Studies Committee one month before the dissertation phase begins.
- xiv. The Departmental Postgraduate Committee shall form a panel of three members to evaluate the candidate’s research proposal.

- xv. Each candidate shall give an oral presentation of the proposed research topic to a three-member panel in the first month of the dissertation study. The panel's approval of the research proposal is required before the student is allowed to proceed with his/her dissertation work. The panel shall monitor the candidate's research progress.
- xvi. University guidelines on the preparation of dissertations shall apply.

POSTGRADUATE DIPLOMA

Entry Requirements

Advanced Diploma or equivalent in engineering in the relevant field from a recognized college or a pass degree in Engineering in the relevant field from a recognized university.

DEPARTMENT OF STRUCTURAL AND CONSTRUCTION ENGINEERING

The Department of Structural and Construction Engineering was established in 2001 to provide studies in areas of Structural Engineering, and Construction Management and Technology. This department offers postgraduate programmes leading to the award of Postgraduate Diploma in Civil Engineering with specialisation in Structural Engineering, Master of Science in Construction Management, Master of Science in Structural Engineering and Doctor of Philosophy PhD.

POSTGRADUATE DIPLOMA IN CIVIL ENGINEERING WITH SPECIALIZATION IN STRUCTURAL ENGINEERING

1. Introduction

The postgraduate diploma programme in Civil Engineering with specialization in Structural Engineering consists of a programme of study involving the completion of a total of at least 120 credits. Candidates must complete 64 compulsory core credits including the project in the general area of Civil Engineering and then select a specialization involving the completion of at least 56 credits in Structural Engineering.

2. Objective of the Programme

The specific objectives of the Postgraduate Diploma Programme in Civil Engineering are to:

- i. provide graduates with relevant modern knowledge in their field of specialization i.e. Structural Engineering to meet the job market requirements; and
- ii. give candidates additional qualifications so that they can manage to join relevant Master programmes at the University of Dar es Salaam or indeed any other university.

List of Courses for Postgraduate Diploma in Civil Engineering - Structural Engineering Specialization

| Semester I | | | Semester II | | |
|---|---|---------|---|--|---------|
| Core Courses | | | Core Courses | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| SD 321 | Theory of Statically Indeterminate Structures | 12 | SD 599 | Project | 16 |
| TM 321 | Project Appraisal and Planning Techniques | 12 | WR 603 | Hydraulics and Open Channel Flow | 12 |
| TR 685 | Geotechnical Engineering | 12 | | | |
| Elective Courses (Select at least 24 Credits) | | | Elective Courses (Select at least 32 credits) | | |
| TM 420 | Management of Construction Projects | 12 | SD 662 | Advanced Structural Analysis | 12 |
| TR 331 | Highway Materials | 12 | SD 360 | Design of Steel Structures | 8 |
| SD 341 | Design of Reinforced Concrete Structures | 8 | SD 350 | Design of Timber Structures | 8 |
| SD 470 | Design of Bridges | 8 | SD 442 | Intermediate Design of Concrete Structures | 8 |
| SD 421 | Dynamics of Structures | 8 | SD 443 | Prestressed Concrete Design | 8 |

MASTER OF SCIENCE IN CONSTRUCTION MANAGEMENT

List of Courses for the Master of Science in Construction Management

| Semester I | | | Semester II | | |
|--------------|---|---------|--------------|---|---------|
| Core Courses | | | Core Courses | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| TM 601 | Construction Planning and Resources Management | 12 | MG 611 | Engineering Finance and Economics | 12 |
| TM 602 | Construction Corporate Management | 12 | TM 605 | Construction Safety Management | 12 |
| TM 603 | Construction Procurement and Cost Estimating | 8 | TM 606 | Construction Equipment and Plant Management | 8 |
| MG 623 | Project Management | 12 | TM 611 | Infrastructure Maintenance Management | 12 |
| TM 604 | Construction Law and Contract Management | 12 | TM 607 | Construction Techniques I | 12 |
| | <i>Elective courses (Select at least 8 credits)</i> | | | <i>Elective courses (Select at least 8 credits)</i> | |
| TM 608 | Construction Techniques II | 8 | TM 608 | Construction Techniques II | 8 |
| MG 603 | Principles of Environmental Management | 8 | MG 603 | Principles of Environmental Management | 8 |
| Semester III | | | | | |
| TM 699 | Dissertation | 60 | | | |

MASTER OF SCIENCE IN STRUCTURAL ENGINEERING

List of Courses for the Master of Science in Structural Engineering

| Semester I | | | Semester II | | |
|---|--|---------|--------------|--------------------------------------|---------|
| Core Courses | | | Core Courses | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| SD 662 | Advanced Structural Analysis | 12 | SD 666 | Stability of Structures | 12 |
| SD 663 | Theory of Plates and Shells | 12 | SD 674 | Advanced Concrete Technology | 12 |
| SD 664 | Finite Elements Method | 12 | SD 675 | Design of Tall Buildings | 12 |
| SD 665 | Structural Dynamics | 12 | SD 677 | Advanced Bridge Engineering | 12 |
| <i>Select at least two elective courses</i> | | | | | |
| Compulsory Courses for Students in the Concrete Stream/Elective Courses for students in the Steel Stream | | | | | |
| SD 672 | Advanced Design of Concrete Structures | 12 | SD 673 | Advanced Prestressed Concrete | 12 |
| Compulsory Courses for Students in the Steel Stream/Elective Courses for students in the Concrete Stream | | | | | |
| SD 671 | Advanced Design of Steel Structures | 12 | SD 669 | Plasticity Theory | 12 |
| Elective Courses for all students | | | | | |
| SD 680 | Advanced Foundation Engineering | 12 | SD 676 | Advanced Design of Timber Structures | 12 |
| Semester III | | | | | |
| SD 699 | Dissertation | 60 | | | |

DEPARTMENT OF TRANSPORTATION AND GEO-TECHNICAL ENGINEERING

The Department of Transportation and Geo-technical Engineering was established in 2001 to provide studies in areas of Foundation Engineering, Transportation Engineering, Highway Engineering, Soil Mechanics and Geomatics. This department offers postgraduate programmes leading to the award of Postgraduate Diploma in Civil Engineering with specialisation in Transportation Engineering; Master of Science in Highway Engineering MSc(HE); Master of Science in Transportation Engineering (by Thesis); and Doctor of Philosophy PhD (by Thesis).

POSTGRADUATE DIPLOMA IN CIVIL ENGINEERING WITH SPECIALIZATION IN TRANSPORTATION ENGINEERING

1. Introduction

The postgraduate diploma programme in Civil Engineering with specialization in Transportation engineering consists of a programme of study involving the completion of a total of at least 120 credits. Candidates must complete 84 compulsory core credits including project in the general area of Civil Engineering and then select a specialization involving the completion of at least 36 credits in Transportation Engineering.

2. Objectives of the Programme

The specific objectives of the Postgraduate Diploma Programme in Civil Engineering are to:

- Provide graduates with relevant modern knowledge in their field of specialization Transportation Engineering to meet the job market requirements; and
- Give to the candidates additional qualifications so that they can manage to join relevant Master programmes at the University of Dar es Salaam or indeed any other university.

3. Entry Requirements

Advanced Diploma or equivalent in Engineering in the relevant field from a recognized college or a pass degree in Engineering in the relevant field from a recognized university.

4. List of Courses

| Semester I | | | Semester II | | |
|--|---|---------|--|------------------------------------|---------|
| Core Courses | | | Core Courses | | |
| Code | Course Title | Credits | Code | Course Title | Credits |
| SD 321 | Theory of Statically Indeterminate Structures | 12 | TR 599 | Project | 16 |
| TM 321 | Project Appraisal and Planning Techniques | 12 | | | |
| TR 331 | Highway Materials | 12 | | | |
| TR 635 | Geotechnical Engineering | 12 | | | |
| <i>Elective Courses (Select at least 12 Credits)</i> | | | <i>Elective Courses (Select at least 44 Credits)</i> | | |
| TM 420 | Management of Construction Projects | 12 | TR 310 | Traffic Engineering and Management | 12 |
| TR 320 | Highway Geometric Design | 8 | TR 631 | Highway Planning and Economics | 12 |
| MG 602 | Statistics and Research Methods | 12 | TR 636 | Highway Management Systems | 12 |
| TM 604 | Construction Law and Contract Management | 12 | TR 332 | Pavement Analysis and Design | 12 |
| | | | TR 441 | Labour Based Road Engineering | 12 |
| | | | TR 442 | Transportation Economics | 12 |

MASTER OF SCIENCE IN HIGHWAY ENGINEERING

1. Introduction

The Highway Engineering programme was launched in the 1994/95 academic year as an integral part of the Integrated Road Project IRP. It was a joint concern of the University of Dar es Salaam, University of Birmingham and the Ministry of Works. Upon completion of the Integrated Road Project, the University of Dar es Salaam assumed full responsibility of running the programme. The highway Engineering programme consists of 180 credits. During the coursework, candidates must complete 108 credits of the core course modules and 12 credits of the elective courses. Upon successful completion of the coursework, candidates must complete 60 credits of dissertation.

2. Objectives of the Programme

The MSc in Highway Engineering programme aims to equip engineers in middle management positions with up-to-date knowledge of procedures, materials and technology which can enable them to efficiently manage the trunk and rural roads network. The programme is also aimed at providing a curriculum that covers techniques, which are appropriate for the local conditions in Tanzania as well as those of neighboring countries. This is especially important for engineers in private practice who are involved in planning, designing and supervising highway projects.

3. List of Courses

| Semester I | | | Semester II | | |
|----------------------------|---------------------------------|---------|--|--|---------|
| Core Courses | | | Core Courses | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| CS 680 | Computer Programming | 12 | TR 631 | Highway Planning and Economics | 12 |
| MG 602 | Statistics and Research Methods | 12 | TR 632 | Highway Design and Traffic Engineering | 12 |
| TR 633 | Pavement design and Drainage | 12 | TR 634 | Highway Materials | 12 |
| TR 635 | Geo-technical Engineering | 12 | TR 636 | Highway Management Systems | 12 |
| EM 601 | Mathematical Analysis | 12 | | | |
| <i>Elective Courses</i> | | | <i>Elective Courses (Select at least 12 credits)</i> | | |
| <i>No elective courses</i> | | | | | |
| | | | MG 623 | Project Management | 12 |
| | | | EM 602 | Numerical Analysis | 12 |
| Semester III | | | | | |
| TR 699 | Dissertation | 60 | | | |

DEPARTMENT OF WATER RESOURCES ENGINEERING

The Department of Water Resources Engineering (WRED) was established in December 2001. The department is located at the Block B and C of the College of Engineering and Technology. The Staff of the WRED are engaged in: providing postgraduate level education leading to Postgraduate Diploma, MSc, and PhD degrees in Water Resources Engineering and Master in Integrated Water Resources Management (MIWRM); participating in collaborative research and developing individual research projects; providing advanced level training of short duration in specialised areas of Water Resources engineering; providing consultancy service through the Bureau of Industrial Cooperation (BICO) of the College of Engineering and Technology; and participating in research collaboration and staff exchange with various universities, research organizations and water authorities within and outside Sub-Saharan Africa.

The department hosts a well-developed international postgraduate programmes for students from all countries of Africa under the auspices of ANSTI and WATERNET. The trainees can choose various streams of specialization such as Engineering Hydrology and Environmental Engineering. It may be noted that the Environmental Engineering in the current context refers to water-related problems of the environment. The Department also offers postgraduate studies that lead to PhD degrees.

POSTGRADUATE DIPLOMA IN CIVIL ENGINEERING WITH SPECIALIZATION IN WATER RESOURCES ENGINEERING

1. Introduction

The postgraduate diploma programme in Civil Engineering with specialization in water resources engineering consists of a programme of study involving the completion of a total of at least 120 credits. Candidates must complete compulsory 56 credits including project in the general area of Civil Engineering and then select a specialization involving the completion of at least 64 credits in Water Resources Engineering.

2. Objectives of the Programme

The specific objectives of the Postgraduate Diploma programme in Civil Engineering are to:

- provide graduates with relevant modern knowledge in their field of specialization in Water Resources Engineering to meet the job market requirements; and
- Give the candidates additional qualifications so that they can manage to join relevant Master programmes at the University of Dar es Salaam or indeed any other university.

3. Admission Requirements

Admission to the programme is in accordance to the University of Dar es Salaam general minimum entry requirements for Postgraduate Degree programmes. Specifically, admission to the Postgraduate Diploma in Civil Engineering with specialization in Water Resources Engineering requires Advanced Diploma or equivalent in Engineering in the relevant field from a recognized college or a pass degree in engineering in the relevant field from a recognized university.

4. List of Courses for the Postgraduate Diploma in Civil Engineering - Water Resources Engineering Specialization

| Semester I | | | Semester II | | |
|--------------|--|---------|--------------|--------------|---------|
| Core Courses | | | Core Courses | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| SD 321 | Theory of statistically Indeterminate Structures | 12 | WR 599 | Project | 16 |
| TM 321 | Project Appraisal and Planning Techniques | 12 | | | |
| TR 331 | Highway Materials | 12 | | | |
| TR 635 | Geotechnical Engineering | 12 | | | |

| Elective Courses (Select at least 12 credits) | | | Elective Courses (Select at least 44 credits) | | |
|---|-------------------------------------|----|---|--|----|
| WR 342 | Waste Water Engineering | 12 | WR 325 | Irrigation Engineering | 8 |
| WR 603 | Hydraulics and Open Channel Flow | 12 | WR 323 | Applied Hydrology | 8 |
| WR 322 (WR 410) | Hydraulics Structures and Machinery | 8 | WR 604 | Hydrological Processes | 12 |
| | | | WR 607 | Groundwater Hydraulics | 12 |
| | | | WR 443 (WR 442) | Introduction to Water Chemistry and Microbiology | 12 |
| | | | WR 446 (WR 460) | Management of Solids and Hazardous Wastes | 12 |

MASTER OF SCIENCE IN WATER RESOURCES ENGINEERING

1. Introduction

The Water Resources Engineering programme is the most well established postgraduate programme in the faculty, and has been in operation for the past fourteen years. The programme is sponsored project of the African Network of Scientific and Technological Institutions (ANSTI), and therefore draws candidates from the whole continent of Africa.

The students in the MSc in Water Resources Engineering programme can choose to specialize or emphasize on either Engineering Hydrology, or Environmental Engineering or Water Management. The Environmental Engineering in this context refers only to water related problems of the environment.

The MSc programme involves the completion of a total of at least 180 credits. Candidates specializing in Environmental Engineering must complete 152 credits including project (dissertation) and at least 28 credits in elective courses, while those specializing in Hydrology must complete 160 credits including project (dissertation) and at least 20 credits in elective courses. Also, candidates specializing in Water Management must complete 156 compulsory core credits including dissertation and at least 24 credits in elective courses. The dissertation constitutes one third (1/3) of the total credits for the MSc programme.

2. Objectives of the Programme

The major objective of the MSc in Water Resources Engineering programme is to provide advanced training in Water Resources Engineering with emphasis on the current state of the art and technology with particular reference to the developing countries of the Sub-Saharan Africa.

3. Admission Requirements

Admission to the programme is in accordance to the University of Dar es Salaam general minimum entry requirements for Master programmes. Specifically, the admission to the degree of Master of Science in Water Resources Engineering requires holders of a lower second-class Bachelor degree in a corresponding field of Engineering (e.g. Hydrology, Civil Engineering, Hydrogeology, Meteorology, Agricultural Engineering or Water Resources Engineering) offered by the CoET, UDSM or any recognized institution or a corresponding Postgraduate Diploma offered by the CoET, UDSM or any recognized institution. Candidates for whom English is not their study language at undergraduate level have to prove their English proficiency.

4. Courses

The courses are indicated as core to all students or respective specializations and elective courses. Students can opt to substitute the elective courses specified in the streams as long as the course has the same number of credits and is being offered in the academic year. This is set to meet the minimum credits (180 credits) for the Masters programme. However, beyond the minimum credits for the programme, students can further opt to take additional elective courses with any number of credits.

List of Courses for the Master of Science in Water Resources Engineering – Engineering Hydrology Stream

| Semester I | | | Semester II | | |
|--------------|---|---------|--------------|-------------------------------|---------|
| Core Courses | | | Core Courses | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| WR 601 | Computations in Water Resources Engineering | 12 | EM 602 | Numerical Analysis | 12 |
| MG 602 | Statistics and Research Methods | 12 | WR 602 | Applied Engineering Hydrology | 12 |
| WR 603 | Open Channel Hydraulics | 8 | WR 607 | Groundwater Hydraulics | 12 |
| WR 605 | Advanced Hydrological Frequency Analysis | 4 | WR 604 | Hydrological Processes | 12 |
| EM 601 | Mathematical Analysis | 12 | WR 606 | Advanced Analytical Hydrology | 4 |

| <i>Elective Courses (Select 12 Credits)</i> | | | <i>Elective Courses (Select 12 Credits)</i> | | |
|---|--------------------------|---|---|----------------------------|----|
| WR 608 | Hydrometry | 4 | WR 614 | Water Resources Management | 8 |
| WR 621 | Water Quality Management | 8 | WR 616 | Groundwater Modelling | 4 |
| | | | WR 613 | Water-well Technology | 4 |
| Semester III | | | | | |
| WR 699 | Dissertation | | | | 60 |

List of Courses for the Master of Science in Water Resources Engineering - Environmental Engineering Stream

| Semester I | | | Semester II | | |
|--|---|----------------|---|---|----------------|
| <i>Core Courses</i> | | | <i>Core Courses</i> | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| WR 601 | Computations in Water Resources Engineering | 12 | EM 602 | Numerical Analysis | 12 |
| MG 602 | Statistics and Research Methods | 12 | WR 602 | Applied Engineering Hydrology | 12 |
| WR 609 | Unit Operations in Water Treatment | 8 | WR 607 | Groundwater Hydraulics | 12 |
| WR 610 | Water Quality Modelling | 8 | WR 617 | Unit Operations in Wastewater Treatment | 12 |
| | | | WR 622 | Wastewater Collection Systems | 4 |
| <i>Elective Courses (Select at least 24 Credits)</i> | | | <i>Elective Courses (Select at least 4 Credits)</i> | | |
| WR 615 | Environmental Management | 8 | WR 614 | Water Resources Management | 8 |
| WR 620 | Environmental and Water Resources System Analysis | 8 | WR 613 | Water-well Technology | 4 |
| WR 623 | Water, Sanitation and Diseases | 8 | | | |
| Semester III | | | | | |
| WR 699 | Dissertation | | | | 60 |

List of Courses for the Master of Science in Water Resources Engineering – Water Management Stream

| Semester I | | | Semester II | | |
|---------------------|---|----------------|---------------------|---------------------------------|----------------|
| <i>Core Courses</i> | | | <i>Core Courses</i> | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| WR 601 | Computations in Water Resources Engineering | 12 | EM 602 | Numerical Analysis | 12 |
| MG 602 | Statistics and Research Methods | 12 | WR 602 | Applied Engineering Hydrology | 12 |
| EM 601 | Mathematical Analysis | 12 | WR 607 | Groundwater Hydraulics | 12 |
| WR 626 | Integrated Land and Water Management | 8 | WR 625 | Hydrosystems Simulations Models | 8 |

| Semester I | | Semester II | | | |
|--|--|--|--------|--|---|
| Core Courses | | Core Courses | | | |
| | | | WR 627 | Legal & Administrative Aspects of Water Management | 8 |
| Elective Courses (Select at least 16 Credits) | | Elective Courses (Select at least 12 Credits) | | | |
| WR 619 | Water Pollution Prevention and Control | 8 | WR 612 | Groundwater Investigations | 4 |
| WR 621 | Water Quality Management | 8 | WR 614 | Water Resources Management | 8 |
| | | | WR 613 | Water-well Technology | 4 |
| Semester III | | | | | |
| WR 699 | Dissertation | | 60 | | |

MASTER OF INTEGRATED WATER RESOURCES MANAGEMENT (MIWRM)

1. Introduction

During admission, students in MIWRM programme can choose to specialise in either Hydrology, Water Resources Management, Water and Land, GIS and Earth Observation, Water and Environment, Water Supply and Sanitation, or Water and Society. The programme runs in collaboration with other universities within the SADC, which offers one of the specialisations. UDSM offers the Hydrology specialisation. Similarly, other universities offer various specializations as follows: University of Zimbabwe offers specialization in Water Resources Management; University of Botswana offers specialization in Water and Land; University of Kwazulu Natal offers specialization in GIS and Earth Observation; University of The Western Cape offers specialization in Water and Society; University of Malawi offers specialization in Water and Environment; and the Polytechnic of Namibia offers specialization in Water Supply and Sanitation.

2. Objectives of the Programme

The Department of Water Resources Engineering aims at strengthening the overall human and institutional capacity in the water sector in East and Southern Africa to concentrate towards a wise use of the water resources in the region. The wise use can be translated in technical terms as efficient use, in socio-economic terms as equitable use and in environmental terms as ecologically sound use.

The specific objectives of the programme include:

- i. Raising skills and awareness with regard to regional scale IWRM among institutions and people who are active in the field of water resources management;
- ii. Stimulating regional cooperation in the field of education in IWRM; and
- iii. Stimulating and strengthen applied research in the area of water resources for the development of the region.

3. Entry Requirements

Admission to the programme is in accordance to the University of Dar es Salaam general minimum entry requirements for Masters Degree programmes. Specifically, the admission to the degree of Master of Integrated Water Resources Management requires holders of a lower second-class Bachelor degree (BA or BScEng) or Postgraduate Diploma offered by the CoET, UDSM or any recognized institution

List of courses for the Master in Intergrated Water Resources Management - Water Resources Management

| Semester I | | | Semester II | | |
|---------------------|--|---------|--------------|---|---------|
| Core Courses | | | Core Courses | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| WM 641 | Principles of Integrated Water Resources Management | 8.0 | WM 670 | Integrated Water Resources Management Project | 12 |
| WM 642 | Principles of Hydrology | 8.0 | WM 676 | Water Resources Assessment and Monitoring | 12 |
| WM 643 | Socio-Economics of Water & Environmental Resources | 12.0 | WM 654 | Groundwater Management | 12 |
| WM 644 | Principles of Aquatic Ecology | 8.0 | WM 675 | Water Resources Modelling | 12 |
| WM 645 | Policies, Laws & Institutions | 12.0 | WM 677 | Catchment Water Management | 12 |
| WM 650 | Principles of Water Quality & Environmental Management | 8.0 | | | |
| WM 658 | GIS, database management and analytical tools | 12.0 | | | |
| WM 660 | Water Resources Analysis & Planning | 8.0 | | | |
| Semester III | | | | | |
| WM 699 | Dissertation | | | | 68 |

List of Courses for the Master in Intergrated Water Resources Management – Water and Environment

| Semester I | | | Semester II | | |
|---------------------|--|---------|--------------|---|---------|
| Core Courses | | | Core Courses | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| WM 641 | Principles of Integrated Water Resources Management | 8.0 | WM 670 | Integrated Water Resources Management Project | 12 |
| WM 642 | Principles of Hydrology | 8.0 | WM 649 | Environmental Management Tools | 12 |
| WM 643 | Socio-Economics of Water & Environmental Resources | 12.0 | WM 651 | Environmental Water Management | 12 |
| WM 644 | Principles of Aquatic Ecology | 8.0 | WM 664 | Water Quality Management | 12 |
| WM 645 | Policies, Laws & Institutions | 12.0 | WM 673 | Management of Aquatic Ecosystems | 12 |
| WM 650 | Principles of Water Quality & Environmental Management | 8.0 | | | |
| WM 658 | GIS, database management and analytical tools | 12.0 | | | |
| WM 660 | Water Resources Analysis & Planning | 8.0 | | | |
| Semester III | | | | | |
| WM 699 | Dissertation | | | | 68 |

List of Courses for the Master in Intergrated Water Resources Management - Hydrology

| Semester I | | | Semester II | | |
|---------------------|--|----------------|---------------------|---|----------------|
| <i>Core Courses</i> | | | <i>Core Courses</i> | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| WM 641 | Principles of Integrated Water Resources Management | 8.0 | WM 670 | Integrated Water Resources Management Project | 12 |
| WM 642 | Principles of Hydrology | 8.0 | WM 652 | Hydrogeology | 12 |
| WM 643 | Socio-Economics of Water & Environmental Resources | 12.0 | WM 655 | Hydrological Processes | 12 |
| WM 644 | Principles of Aquatic Ecology | 8.0 | WM 657 | Hydrological Modelling | 12 |
| WM 645 | Policies, Laws & Institutions | 12.0 | WM 662 | River Engineering | 12 |
| WM 650 | Principles of Water Quality & Environmental Management | 8.0 | | | |
| WM 658 | GIS, database management and analytical tools | 12.0 | | | |
| WM 660 | Water Resources Analysis & Planning | 8.0 | | | |
| Semester III | | | | | |
| WM 699 | Dissertation | | | | 68 |

List of Courses for the Master in Intergrated Water Resources Management - Water and Land

| Semester I | | | Semester II | | |
|---------------------|--|----------------|---------------------|---|----------------|
| <i>Core Courses</i> | | | <i>Core Courses</i> | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| WM 641 | Principles of Integrated Water Resources Management | 8.0 | WM 670 | Integrated Water Resources Management Project | 12 |
| WM 642 | Principles of Hydrology | 8.0 | WM 656 | Agricultural Water Management | 12 |
| WM 643 | Socio-Economics of Water & Environmental Resources | 12.0 | WM 648 | Wetlands and Agriculture | 12 |
| WM 644 | Principles of Aquatic Ecology | 8.0 | WM 674 | Agro-Industrial Water Use | 12 |
| WM 645 | Policies, Laws & Institutions | 12.0 | WM 661 | Catchment Management | 12 |
| WM 650 | Principles of Water Quality & Environmental Management | 8.0 | | | |
| WM 658 | GIS, database management and analytical tools | 12.0 | | | |
| WM 660 | Water Resources Analysis & Planning | 8.0 | | | |
| Semester III | | | | | |
| WM 699 | Dissertation | | | | 68 |

List of Courses for the Master in Intergrated Water Resources Management – GIS and Earth Observation

| Semester I | | | Semester II | | |
|---------------------|---|----------------|---------------------|---|----------------|
| <i>Core Courses</i> | | | <i>Core Courses</i> | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| WM 641 | Principles of Integrated Water Resources Management | 8.0 | WM 670 | Integrated Water Resources Management Project | 12 |
| WM 642 | Principles of Hydrology | 8.0 | WM 663 | Earth Observation for Hydrological Analyses | 12 |

| Semester I | | | Semester II | | |
|---------------------|--|------|--------------|---|----|
| Core Courses | | | Core Courses | | |
| WM 643 | Socio-Economics of Water & Environmental Resources | 12.0 | WM 659 | Advanced Geographic Information System | 12 |
| WM 644 | Principles of Aquatic Ecology | 8.0 | WM 669 | Earth Observation Project8 | 12 |
| WM 645 | Policies, Laws & Institutions | 12.0 | WM 668 | Spatial Analyses for Water Resources Management | 12 |
| WM 650 | Principles of Water Quality & Environmental Management | 8.0 | | | |
| WM 658 | GIS, database management and analytical tools | 12.0 | | | |
| WM 660 | Water Resources Analysis & Planning | 8.0 | | | |
| Semester III | | | | | |
| WM 699 | Dissertation | | | | 68 |

List of Courses for the Master in Intergrated Water Resources Management – Water Supply and Sanitation

| Semester I | | | Semester II | | |
|---------------------|--|---------|--------------|---|---------|
| Core Courses | | | Core Courses | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| WM 641 | Principles of Integrated Water Resources Management | 8.0 | WM 670 | Integrated Water Resources Management Project | 12 |
| WM 642 | Principles of Hydrology | 8.0 | WM 665 | Wastewater Management | 12 |
| WM 643 | Socio-Economics of Water & Environmental Resources | 12.0 | WM 666 | Environmental Water Quality Processes | 12 |
| WM 644 | Principles of Aquatic Ecology | 8.0 | WM 646 | Water Supply | 12 |
| WM 645 | Policies, Laws & Institutions | 12.0 | WM 647 | Water Utility Management | 12 |
| WM 650 | Principles of Water Quality & Environmental Management | 8.0 | | | |
| WM 658 | GIS, database management and analytical tools | 12.0 | | | |
| WM 660 | Water Resources Analysis & Planning | 8.0 | | | |
| Semester III | | | | | |
| WM 699 | Dissertation | | | | 68 |

MASTER OF INTEGRATED SANITATION MANAGEMENT (MISM)

1. Introduction

The Master in Integrated Sanitation Management (MISM) is a unique African training programme in Integrated Sanitation Management developed as part of a regional collaboration to establish an integrated training strategy to address the shortage of trained people in the areas of sanitation management. The collaborating institutions are: Kenyatta University (KU) (Kenya), University of Dar es Salaam (UDSM) (Tanzania), Makerere University (MAK) (Uganda), University of Zambia (UNZA) (Zambia) and University of Siegen (Germany). The programme is sponsored by the European Union (EU) project (EDULINK).

The MISM programme runs on a modular system, each module having 3 units unless stipulated otherwise in the curriculum. Twelve course modules are offered as compulsory and electives. Candidates must complete a minimum of 120 units to satisfy the coursework requirement before proceeding to the dissertation phase, unless stated otherwise. The time for the dissertation phase is 6 months.

2. Objectives of the Programme

The programme focuses on managers in integrated sanitation and utilization in the built environment in order to have a sustainable environment that would meet our present needs without comprising the ability

of future generations to meet theirs. Therefore, the Department of Water Resources Engineering aims at strengthening the training and research capacity at universities in Eastern and Southern African region to improve water and sanitation governance.

The specific objectives of the programme include:

- i. providing the country and the region with sufficient high-level human power in integrated sanitation management as agents of development and change, thus contributing to the attainment and achieving the MDGs;
- ii. conducting research in the interest of suitable exploitation of human waste resources in Tanzania and the region, ultimately leading to innovation of technical products and production processes for the re-use of resources; and
- iii. providing expert professional services in the form of consultancy.

3. List of Courses for the Master of Intergrated Sanitation Management

| Semester I | | | Semester II | | |
|------------------|---|---------|------------------|--|---------|
| Core Courses | | | Core Courses | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| SM 600 | Principles of Integrated Sanitation Management | 12 | SM 605 | Sanitation Financing, Entrepreneurship and Business | 12 |
| SM 601 | Sanitation Technologies | 12 | SM 606 | Emergency Sanitation | 12 |
| SM 602 | Sanitation Resources Recovery and Reuse | 12 | SM 607 | Decentralized Wastewater Treatment Systems (DEWATS) | 12 |
| SM 603 | Sanitation and Public Health | 12 | SM 608 | Sanitation Governance | 12 |
| SM 604 | Field and Laboratory Methods and Techniques | 12 | SM 609 | Behavioral Change and Advocacy in Sanitation | 12 |
| SM 614 | Application of Geographical Information System in Sanitation Management | 12 | SM 610 | Integrated Sanitation Management Planning | 12 |
| Elective Courses | | | Elective Courses | | |
| SM 611 | Research Methods for Sanitation | 12 | SM 612 | Teamwork Skills Development in Sanitation Project Management | 12 |
| SM 615 | Faecal Sludge Management | 12 | SM 613 | Sanitation Systems and Services | 12 |
| Semester III | | | | | |
| SM 699 | Dissertation | | | | 60 |

DEPARTMENT OF ELECTRICAL ENGINEERING

The College of Engineering and Technology through the department of Electrical Engineering offers postgraduate programmes leading to the following awards:

- i. Postgraduate Diploma in Electrical Power Engineering
- ii. Master of Science in Power Electronics and Electrical Drives, MSc (PE & ED)
- iii. Master of Science in Power Systems and High Voltages, MSc (PS & HV)
- iv. Master of Science in Electrical Engineering
- v. Doctor of Philosophy (PhD) in Electrical Engineering

POSTGRADUATE DIPLOMA IN ELECTRICAL POWER ENGINEERING

1. Introduction

The postgraduate diploma in Electrical Power Engineering consists of a programme of study involving the completion of a total of at least 120 credits. Candidates must complete 84 compulsory core credits including project in the general area of Electrical Power Engineering and 36 elective credits.

2. Objectives of the Programme

Main Objective

The main objective of the programme is to produce quality specialists of intellectual standard and high caliber capable of managing and operation of electrical power systems and also to meet current and future needs in the field both nationally and internationally.

Specific Objectives

The Postgraduate Diploma in Electrical Power Engineering curriculum has the following specific objectives:

- Enabling graduates to apply knowledge of electrical engineering principles.
- Enabling graduates to have knowledge in the areas of Electrical Power Engineering.
- Equipping students with fundamental and advanced concepts of Electrical Power Engineering with particular emphasis on the application of these concepts to further advance the state of technology and to meet the needs of the industry.
- Equipping students with hands-on experience on key modern electrical power systems and computer-based test and measurement equipments.
- Equipping students with knowledge to develop appropriate engineering analytical models based on given specifications.
- Imparting effective leadership and decision-making skills.
- Equipping students with learning and research skills.

3. Entry Requirements

Admission to the programme is in accordance with the University of Dar es Salaam general minimum entry requirements for Postgraduate Degree programmes. Specifically, for admission to the degree of Postgraduate Diploma in Electrical Power Engineering, holders of a lower second-class Bachelor degree in Computer Engineering, Telecommunication Engineering, Electronics, Mechanical, Chemical, and Electromechanical will be considered if the applicant has the necessary background in Electrical Engineering fields. Candidates for whom English is not their study language at undergraduate level have to prove their English proficiency

4. Programme Structure

Coursework and report

5. List of Courses

| Semester I | | | Semester II | | |
|--------------|--|---------|--------------|--|---------|
| Core Courses | | | Core Courses | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| DP 311 | Electrical Machines I | 12 | CS 321 | Control Systems Engineering I | 12 |
| DP 313 | Power Electronics I | 12 | DP 331 | Electrical Power Plants | 8 |
| | | | DP 599 | Project | 40 |
| | <i>Elective Courses (Select a minimum of 24 credits)</i> | | | <i>Elective Courses (Select a minimum of 12 credits)</i> | |
| DP 601 | Rotating Machines Analysis | 12 | MG 632 | Entrepreneurship Development | 12 |
| DP 607 | Mechanical Design of Electrical Machines | 8 | MG 611 | Engineering Finance and Economics | 12 |
| DP 620 | Power System Analysis | 12 | MG 632 | Entrepreneurship Development | 12 |
| DP 681 | Network Analysis | 8 | DP 682 | Network Synthesis | 8 |
| DP 610 | Modeling & Simulation of Power Electronics Circuits | 12 | MG 612 | Business Statistics and Forecasting | 12 |
| DP 332 | Electrical Power Transmission and Distribution | 12 | | | |

6. Programme Evaluation and Examinations

- i. A course shall be subjected to a final examination at the end of the course.
- ii. The final examination shall contribute 60% to the final grade of a course and the continuous assessment shall contribute 40%. The form of the continuous assessment shall be announced by a Course Instructor at the beginning of the course. The minimum pass grade in any course shall be B.
- iii. A candidate (FULL - TIME DAY or EVENING) whose overall GPA at the end of semester two is below 2.7 shall be discontinued from the programme.
- iv. A candidate (FULL - TIME DAY or EVENING) whose overall GPA at the end of the second semester is or above 2.7 but has failed in one or more courses shall be required to sit for a supplementary examination in the failed courses(s) by the end of July in the respective academic year.
- v. A candidate who fails in any subject in a supplementary examination shall be allowed to REPEAT the failed subject during the semester in which the subject is offered; no candidate shall be allowed to repeat a failed subject twice.

MASTER OF SCIENCE IN POWER ELECTRONICS AND ELECTRICAL DRIVES

1. Introduction

The MSc in Power Electronics and Electrical Drives programme is intended to train students the applications of power electronics technologies in power system control and various electrical drives with the necessary knowledge and skills to design, implement, manage and maintain the electrical systems. The programme consists of 180 credits. During the coursework candidates must complete 60 credits of the core course modules and 60 credits of the elective courses. Upon successful completion of the coursework candidate must complete 60 credits of dissertation.

2. Objective of the Programme

The major Objective of the MSc in Power Electronics and Electrical Drives Programme is to enhance the knowledge of postgraduate engineers in analysis, modeling and simulation of Power Electronics Systems and Electrical Drives obtained at undergraduate level. The final goal of the programme is to enable the students to independently carry out design, analysis, modelind and simulation of Power Electronics Systems and Electrical Drive Systems and to suggest new concepts related to this field. The students in the MSc in Power Electronics and Electrical Drives Programme are provided to subscribe a range of elective courses in Electrical Engineering field and other specialisations.

3. Entry Requirements

Admission to the programme is in accordance with the University of Dar es Salaam general minimum entry requirements for Master degree programmes. Specifically, the admission to the degree of Master of Sciences in Power Electronics and Electrical Drives requires holders of a lower second-class Bachelor degree (BEng or BSc) in Electrical Engineering or Postgraduate Diploma in Electrical Engineering offered by the CoET, UDSM or any recognized institution with basic background in control systems, electrical machine and drives and electrical network analysis.

4. Programme Structure

Coursework and report

5. List of Courses

| Semester I | | | Semester II | | |
|--|---------------------------------------|---------|---|-----------------------------------|---------|
| Core Courses | | | Core Courses | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| CS 680 | Computer Programming | 12 | EM 601 | Mathematical Analysis | 12 |
| DP 601 | Rotating Machines Analysis | 12 | EM 602 | Numerical Analysis | 12 |
| DP 602 | Power Electronics | 12 | | | |
| Elective Courses (Select a minimum of 24 credits) | | | Elective Courses (Select a minimum 36 credits) | | |
| CS 662 | Control System Analysis and Synthesis | 12 | DP 683 | Foundations of Electrical Systems | 12 |

| | | | | | |
|---------------------|--|----|--------|-----------------------------------|----|
| DP 600 | Basic Control Theory and Electronic Control | 12 | MG 611 | Engineering Finance and Economics | 12 |
| DP 610 | Modelling & Simulation of Power Electronics Circuits | 12 | MG 632 | Entrepreneurship Development | 12 |
| DP 681 | Network Analysis | 12 | DP 682 | Network Synthesis | 12 |
| Semester III | | | | | |
| DP 699 | Dissertation | 60 | | | |

6. Programme Evaluation and Examinations

- A course shall be subjected to the final examination at the end of the course.
- The final examination shall contribute 60% to the final grade of a course and the continuous assessment shall contribute 40%. The form of the continuous assessment shall be announced by course Instructor at the beginning of the course. The minimum pass grade in any course shall be B.
- A candidate (FULL-TIME DAY or EVENING) whose overall GPA at the end of semester two is below 2.7 shall be discontinued from the programme.
- A candidate (FULL-TIME DAY or EVENING) whose overall GPA is or above 2.7 but has failed in one or more courses shall be required to sit for a supplementary examination in the failed courses(s) by the end of July in the respective academic year.
- A candidate who fails in any subject in a supplementary examination shall be allowed to repeat the failed subject during the semester in which the subject is offered - no candidate shall be allowed to repeat a failed subject twice.

MASTER OF SCIENCE IN POWER SYSTEMS AND HIGH VOLTAGES

1. Introduction

The MSc in Power Systems and High Voltages programme is intended to equip learners with the necessary knowledge and skills to design, implement, manage and maintain Electrical Engineering systems. Furthermore, graduates should be equipped with ability to perform research in the relevant fields of specialisation. Students can register either as full-time or part-time student. The programme consists of 180 credits. During the coursework candidates must complete 60 credits of the core course modules and 60 credits of the elective courses. Upon successful completion of the coursework candidate must complete 60 credits of dissertation.

2. Objective of the Programme

The major objective of the MSc Power Systems and High Voltages Programme is to enhance the knowledge of postgraduate engineers in analysis modeling and simulation of Power Systems and High Voltages obtained at undergraduate level. The final goal of the programme is to enable the students to independently carry out design, analysis, modeling and simulation of Power Systems and High Voltage Systems. The students in the MSc Power Systems and High Voltages Programme are provided to subscribe a range of elective courses in Electrical Engineering field and other specialisations.

3. Entry Requirements

Admission to the programme is in accordance to the University of Dar es Salaam general minimum entry requirements for Masters Degree programmes. Specifically, the admission to the degree of Master of Sciences in in Power Systems and High Voltages requires holders of a lower second-class Bachelor degree (BEng or BSc) in Electrical Engineering or Postgraduate Diploma in Electrical Engineering offered by the CoET, UDSM or any recognized institution.

4. Programme Structure

Coursework and report.

5. List of Courses

| Semester I | | | Semester II | | |
|---|--|---------|---|---|---------|
| Core Courses | | | Core Courses | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| CS 680 | Computer Programming | 12 | EM 601 | Mathematical Analysis | 12 |
| DP620 | Power System Analysis | 12 | EM 602 | Numerical Analysis | 12 |
| DP628 | High Voltage Testing Techniques | 12 | | | |
| Elective Courses (Select 24 credits Minimum) | | | Elective Courses (Select 36 Minimum) | | |
| CS 662 | Control System Analysis and Synthesis | 12 | DP 625 | Overvoltage, High Voltage Generation and Measurements | 12 |
| DP 622 | Power System Dynamics and Control | 12 | MG 611 | Engineering Finance and Economics | 12 |
| DP 610 | Modelling & Simulation of Power Electronics Circuits | 12 | MG 632 | Entrepreneurship Development | 12 |
| DP 681 | Network Analysis | 12 | DP 682 | Network Synthesis | 12 |
| DP 621 | Load Dispatch, Tariff and Electricity Pricing | 12 | DP 626 | Insulation Coordination | 12 |
| MG 611 | Engineering Finance and Economics | 12 | DP 627 | Insulation Materials | 12 |
| | | | MG 612 | Business Statistics and Forecasting | 12 |
| | | | MG 632 | Entrepreneurship Development | 12 |
| Semester III | | | | | |
| DP 699 | Dissertation | | | | 60 |

6. Programme Evaluation and Examinations

- A course shall be subjected to a final examination at the end of the course.
- The final examination shall contribute 60% to the final grade of a course and the continuous assessment shall contribute 40%. The form of the continuous assessment shall be announced by course Instructor at the beginning of the course. The minimum pass grade in any course shall be B.
- A candidate (full-time or Evening) whose overall GPA at the end of semester two is below 2.7 shall be discontinued from the programme.
- A candidate (full-time or Evening) whose overall GPA at the end of the second semester is 2.7 or above but has failed in one or more courses shall be required to sit for a supplementary

MASTER OF SCIENCE IN ELECTRICAL ENGINEERING (BY THESIS)

1. Entry Requirements

Admission to the programme is in accordance to the University of Dar es Salaam general minimum entry requirements for Masters Degree programmes. Specifically, for admission to the degree of Master of Sciences in Electrical Engineering (by thesis) requires holders of at least an upper second-class (Bachelor) degree (BEng or BSc) in Electrical Engineering.

2. Duration of the Programme

Two years (24 months) on FULL-TIME basis.

DOCTOR OF PHILOSOPHY (PhD) IN ELECTRICAL ENGINEERING (BY THESIS)

Duration of the programme is three years (36 months).

DEPARTMENT OF MECHANICAL AND INDUSTRIAL ENGINEERING

The Department of Mechanical and Industrial Engineering offers postgraduate programmes leading to the following awards:

- i. Postgraduate Diploma in Mechanical Engineering (with options to specialise in either Production Engineering or Energy Engineering)
- ii. Postgraduate Diploma in Engineering Management
- iii. Master of Science in Production Engineering
- iv. Master of Science in Energy Engineering
- v. Master of Science in Renewable Energy
- vi. Master of Engineering Management (Project Management)
- vii. Master of Engineering Management (Information and Communication Technology Management)
- viii. Master of Engineering Management (Techno-Entrepreneurship)
- ix. Master of Science in Oil and Gas Technology
- x. Doctor of Philosophy PhD, in various Mechanical, Industrial Engineering and Engineering Management fields.

POSTGRADUATE DIPLOMA IN MECHANICAL ENGINEERING

1. Introduction

The Postgraduate Diploma Programme in Mechanical Engineering consists of a programme of study involving the completion of 120 credits. Candidate must complete 84 credits of compulsory core modules including 24 credits of project in the broad area of mechanical engineering and then specialise in either production engineering or energy engineering by completing the last 36 credits of the electives, which are to be selected from a given list in the areas of specializations

2. Objectives of the Programme

The specific objectives of the Postgraduate Diploma Programme in Mechanical Engineering are to:

- i. upgrade graduates with Advanced Diploma in the area of Mechanical Engineering to a level equivalent to or higher than that of a Bachelor degree;
- ii. prepare candidates with either a pass degree or Advanced Diploma in the area of mechanical engineering for advanced training at Master degree level in relevant mechanical engineering areas; and
- iii. provide candidates with up-to-date knowledge on modern manufacturing processes and related technology and management.

3. List of Courses

| Semester I | | | Semester II | | |
|--|------------------------------------|---------|--|--------------------------------|---------|
| Core Courses | | | Core Courses | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| PD 502 | Mechanical Power Transmission | 12 | PD 441-PGD | Manufacturing Systems | 12 |
| EN437-PGD | Mechanical Systems Control | 12 | MG504 | Production Management | 12 |
| MG502 | Foundations of Operations Research | 12 | PD 599 | Production Engineering Project | 12 |
| <i>Elective Courses (Select at least 24 credits)</i> | | | <i>Elective Courses (Select at least 12 credits)</i> | | |
| PD 623 | Computer Integrated Manufacture | 12 | PD 313 | Casting | 12 |
| PD 416 | Polymer Engineering | 12 | PD 408 | Noise and Vibration Control | 12 |

| Semester I | | | Semester II | | |
|--------------|--------------|---------|--------------|----------------------------|---------|
| Core Courses | | | Core Courses | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| | | | PD 431 | Automation and Robotics | 12 |
| | | | PD 620 | Design Methodology | 12 |
| | | | PD 622 | Behaviour of Machine Tools | 12 |

List of Courses

| Semester I | | | Semester II | | |
|--|---|---------|--|--|---------|
| Core Courses | | | Core Courses | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| PD 502 | Mechanical Power Transmission | 12 | PD 441-PGD | Manufacturing Systems | 12 |
| EN437-PGD | Mechanical Systems Control | 12 | MG504 | Production Management | 12 |
| MG502 | Foundations of Operations Research | 12 | EN 599 | Energy Engineering Project | 12 |
| Elective Courses (Select at least 24 Credits) | | | Elective Courses (Select at least 12 credits) | | |
| EN338 | Computer Applications in Energy Engineering | 12 | PD 408 | Noise and Vibration Control | 12 |
| EN 614 | Energy Systems and Environmental Pollution | 12 | EN 434-PGD | Renewable Energy technologies | 12 |
| EN 624 | Industrial Fuel and Conversion Processes | 12 | En339-PGD | Principles of Industrial Energy and Environmental Management | 12 |
| | | | EN 438-PGD | Refrigeration and Air Conditioning | 12 |
| | | | EN 611 | Computational Fluid Dynamics | 12 |

POSTGRADUATE DIPLOMA IN ENGINEERING MANAGEMENT

1. Introduction

The postgraduate diploma programme in Engineering Management consists of a completion of a total of 120 credits. Candidates must complete 60 credits of the core course modules including 12 credits of project and any 60 credits to be selected from a list of electives. This programme is also available through online mode.

2. Objectives of the Programme

To upgrade graduates with Advanced Diploma in Engineering and its related fields to Engineering Managerial knowledge and skills of a level higher than that normally obtained from an undergraduate engineering degree.

To prepare candidates with either a pass degree or Advanced Diploma in Engineering and its related fields for advanced training in Engineering management at Master degree level.

3. Structure of the Programme

- The Programme may be offered on FULL-TIME DAY Programmes mode, FULL-TIME EVENING programme mode, online programme mode, or modular programme mode (Part-time day or evening programmes).

- ii. Classes for the evening programmes mode shall, normally, be conducted between 4.00 pm and 8.00 pm. The modular mode shall involve candidates attending one course module at a time up to its completion with intended breaks between modules (part-time).
- iii. The programme shall consist of lectures and a project. Where necessary, practicals shall also be offered.
- iv. Enrolment to the programmes shall be at the beginning of the first semester of each academic year, for the full-time day and evening programmes. The latest date for submitting applications shall be the first week of JUNE for admission in the following October. Enrolment to the modular mode programmes shall be at any time during a semester.
- v. Registration for the courses to be taken during the first semester shall be done during the enrolment to the programme at the beginning of the semester. Registration for the courses to be taken during the second semester shall be done at the end of the first semester.
- vi. Candidates for the FULL-TIME DAY programme mode are expected to complete their programmes within TWO semesters.
- vii. The credit system shall be used to gauge the workload involved. One credit shall be equivalent to 10 hours of lecture, practical and self study.
- viii. A minimum of 120 credits must be completed to satisfy the requirements for the programme. of these, core courses shall consist of not less than 60 credits whereas electives shall be at least 60 credits.
- ix. The project shall consist of 12 credits and shall be treated as a core course. In the case of the FULL-TIME modes (Day or Evening), the project shall be executed during the whole of the second semester.
- x. Candidates for the EVENING FULL-TIME programme mode are expected to complete their programme within TWO semesters.
- xi. Each course module in a modular mode shall be completed within two weeks, followed by another week of independent study and examination. The number of contact hours per day for a course in a modular mode shall depend on the length of the module, i.e. number of units.
- xii. Since the modular mode may demand considerable time of a particular teaching staff to be concentrated in a short duration, the availability of the modular mode shall be subject to availability of the teaching staff.
- xiii. Candidates for the MODULAR MODE (Part-time) DAY or EVENING programmes are expected to complete their programme within THREE semesters.
- xiv. Successful completion of the Postgraduate Diploma programme means satisfying the pre-requisites for a relevant Masters programme.

4. List of Courses

| Semester I | | |
|---|---|----------------|
| <i>Core Courses</i> | | |
| Course Code | Course Title | Credits |
| MG 501 | Application of Microcomputers in Management | 12 |
| MG 502 | Foundations of Operations Research | 12 |
| <i>Elective Courses</i> (Select at least 36 credits) | | |
| MG 602 | Statistics and Research Methods | 12 |
| MG 621 | Project Appraisal | 12 |
| MG 622 | Consulting Management | 12 |
| Semester II | | |
| <i>Core Courses</i> | | |
| Course Code | Course Title | Credits |
| MG 503 | Inventory and Logistics Management | 12 |
| MG 504 | Production Management | 12 |
| MG 599 | Project | 12 |

| <i>Elective Courses</i> (Select atleast 22 credits) | | |
|--|--|----|
| MG 601 | Organization and strategic Management | 12 |
| MG 603 | Principles of Environmental Management | 12 |
| MG 611 | Engineering Finance and Economics | 12 |

MASTER OF SCIENCE IN PRODUCTION ENGINEERING

1. Introduction

The Masters of Science programme in Production Engineering consists of 180 credits. During the coursework, candidates must complete 96 credits of the core course modules and 24 credits of the elective courses. Upon successful completion of the coursework, the candidate must complete 60 credits of dissertation.

2. Objectives of the Programme

The major objective of the MSc in Production Engineering programme is to provide postgraduate students with relevant and modern knowledge of production and manufacturing technologies.

3. List of Courses

| Semester I | | | Semester II | | |
|---|-------------------------------------|---------|---|---------------------------------------|---------|
| <i>Core Courses</i> | | | <i>Core Courses</i> | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| PD 623 | Computer Integrated manufacture | 12 | PD 622 | Behaviour of Machine Tools | 12 |
| PD 625 | Advanced Metal Forming | 12 | PD 620 | Design Methodology | 12 |
| PD 621 | Advanced Metallurgy | 12 | MG 611 | Engineering Finance and Economics | 12 |
| EM 601 | Mathematical Analysis | 12 | MG 601 | Organisation and Strategic Management | 12 |
| <i>Elective Courses</i> (Select at least 12 credits) | | | <i>Elective Courses</i> (Select at least 12 credits) | | |
| MG 602 | Statistics and Research Methods | 12 | PD 630 | Fracture and fatigue of Metal | 12 |
| PD 626 | Advanced Engineering Materials | 12 | PD 632 | Casting | 12 |
| PD 627 | Mechanical Vibrations | 12 | PD 631 | Corrosion and Corrosion Control | 12 |
| PD 628 | Theory of Elasticity and Plasticity | 12 | PD 633 | Welding | 12 |
| PD 629 | Advanced Measurement and Control | 12 | PD 634 | Welding Metallurgy | 12 |
| MG 632 | Entrepreneurship Development | 12 | | | |
| MG 622 | Consulting Management | 12 | | | |
| Semester III | | | | | |
| PD 699 | Dissertation | | | | 60 |

Also, the department offers MSc and PhD programmes by research and thesis.

MASTER OF SCIENCE IN ENERGY ENGINEERING

1. Introduction

The Master of Science programme in Energy Engineering consists of a total of 180 credits. During the course work, candidates must complete 72 credits of the core course modules and 48 credits of the elective courses. Upon successful completion of the coursework, candidates must complete 60 credits of dissertation.

2. Objectives of the Programme

The major objectives of the Master of Science in Energy Engineering is to impart knowledge and skills to students in order to be able to design and analyse various energy systems, utilise effectively various sources of energy and minimize environmental pollution, and manage energy engineering installation. The graduates should also be able to effectively engage in energy related Research and Development.

3. List of Courses

| Semester I | | | Semester II | | |
|---------------------|--|---------|--|---|---------|
| Core Courses | | | Core Courses | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| CS 680 | Computer Programming | 12 | EN 613 | Industrial Refrigeration and Air Conditioning | 12 |
| EM 601 | Mathematical Analysis | 12 | | | |
| EN 623 | Control of Dynamic Systems | 12 | | | |
| EN 624 | Industrial Fuels and Conversion Processes | 12 | | | |
| EN 614 | Energy Systems and Environmental Pollution | 12 | | | |
| | | | <i>Elective Courses (Select at least 48 credits)</i> | | |
| | | | MG 611 | Engineering Finance and Economics | 12 |
| | | | EN 625 | Hydroturbines | 12 |
| | | | EN 622 | Energy Conversion Systems | 12 |
| | | | EN 621 | Renewable Energy Technologies | 12 |
| | | | EN 612 | Automotive Engineering | 12 |
| | | | EN 611 | Computational Fluid Dynamics | 12 |
| | | | PD 620 | Design Methodology | 12 |
| Semester III | | | | | |
| EN 699 | Dissertation | 60 | | | |

MASTER OF ENGINEERING MANAGEMENT (PROJECT MANAGEMENT)

1. Introduction

The Masters programme in Engineering Management (MEM) Project Management specialisation consists of 180 credits. Candidates must complete 96 credits of the core course modules and any 24 credits to be chosen from a list of electives. This programme is also available through online mode.

2. Objectives of the Programme

The major objective of the MEM Project Management is to enable candidates to develop their knowledge and analytical skills necessary for effective management of engineering projects.

3. List of Courses

| Semester I | | |
|--------------|---------------------------------|---------|
| Core Courses | | |
| Course Code | Course Title | Credits |
| CS 680 | Computer Programming | 12 |
| MG 602 | Statistics and Research Methods | 12 |

| | | |
|--|---|----------------|
| MG 621 | Project Appraisal | 12 |
| MG 622 | Consulting Management | 12 |
| <i>Elective Courses (Select at least 12 Credits)</i> | | |
| MG 612 | System Thinking and Quality Management | 12 |
| MG 631 | Fundamentals of Technology Management | 12 |
| MG 632 | Entrepreneurship Development | 12 |
| Semester II | | |
| <i>Core Courses</i> | | |
| Course Code | Course Title | Credits |
| MG 601 | Organization and strategic Management | 12 |
| MG 603 | Principles of Environmental Management | 12 |
| MG 623 | Project Management | 12 |
| MG 624 | Contract Management and Administration | 12 |
| <i>Elective Courses (Select at least 12 credits)</i> | | |
| MG 611 | Engineering Finance and Economics | 12 |
| MG 633 | Environmental Business Management | 12 |
| MG 635 | Selected Topics in Management of Technology | 12 |
| MK 600 | Marketing Management | 12 |
| Semester III | | |
| MG 699 | Dissertation | 60 |

MASTER OF ENGINEERING MANAGEMENT (INFORMATION AND COMMUNICATION TECHNOLOGY MANAGEMENT)

1. Introduction

The Master programme in Engineering Management (MEM) Information and Communication Technology Management specialisation consists of a total of 180 credits. Candidates must complete 96 credits of the core course modules and any 24 credits to be chosen from a list of electives.

2. Objectives of the Programme

The major objective of the Master of Engineering Management MEM Industrial and Information Technology Management is to enable candidates to develop their knowledge and analytical skills necessary for effective industrial and Information Technology IT management.

3. List of Courses

| | | |
|--|---|----------------|
| Semester I | | |
| <i>Core Courses</i> | | |
| Course Code | Course Title | Credits |
| CS 680 | Computer Programming | 12 |
| MG 602 | Statistics and Research Methods | 12 |
| MG 614 | Database Management Systems | 12 |
| <i>Elective Courses (Select at least 24 credits)</i> | | |
| MG 612 | System Thinking and Quality Management | 12 |
| MG 615 | Computer Simulation of Management Systems | 12 |
| MG 622 | Consulting Management | 12 |
| MG 631 | Fundamentals of technology management | 12 |
| MG 632 | Entrepreneurship Development | 12 |

| Semester II | | |
|------------------------------|--|----------------|
| <i>Core Courses</i> | | |
| Course Code | Course Title | Credits |
| MG 601 | Organization and strategic Management | 12 |
| MG 603 | Principles of Environmental Management | 12 |
| MG 611 | Engineering Finance and Economics | 12 |
| MG 613 | Application of AI, ES, and DSS in Management | 12 |
| MK 600 | Marketing Management | 12 |
| <i>Elective Courses (NA)</i> | | |
| Semester III | | |
| MG 699 | Dissertation | 60 |

MASTER OF ENGINEERING MANAGEMENT (TECHNO-ENTREPRENEURSHIP)

1. Introduction

The Masters programme in Engineering Management (MEM) Techno-Entrepreneurship specialisation consists of 180 credits. Candidates must complete 84 credits of the core course modules and any 36 credits to be chosen from a list of electives. This programme is also available through online mode.

2. Objective of the Programme

The major objective of the MEM Techno-Entrepreneurship is to enable candidates to develop their entrepreneurial skills and knowledge in order to be well prepared to quickly adjust to the world of work. The ultimate goal is to encourage students upon graduation to become job creators than job seekers.

3. List of Courses

| Semester I | | |
|---|--|----------------|
| <i>Core Courses</i> | | |
| Course Code | Course Title | Credits |
| CS 680 | Computer Programming | 12 |
| MG 602 | Statistics and Research Methods | 12 |
| MG 631 | Fundamentals of technology management | 12 |
| MG 632 | Entrepreneurship Development | 12 |
| <i>Elective Courses (Select at least 12 Credits)</i> | | |
| MG 612 | System Thinking and Quality Management | 12 |
| MG 635 | Selected Topics in Technology Management | 12 |
| MG 633 | Environmental Business Management | 12 |
| MG 699 | Dissertation | 60 |
| Semester II | | |
| <i>Core Courses</i> | | |
| Course Code | Course Title | Credits |
| MG 601 | Organization and strategic Management | 12 |
| MG 603 | Principles of Environmental Management | 12 |
| MG 611 | Engineering Finance and Economics | 12 |
| <i>Elective Courses (Select a least 24 Credits Minimum)</i> | | |
| MK 600 | Marketing Management | 12 |
| MG 621 | Project Appraisal | 12 |
| MG 622 | Consulting Management | 12 |
| Semester III | | |
| MG 699 | Dissertation | 60 |

MASTER OF SCIENCE IN RENEWABLE ENERGY

The Master of Science in Renewable Energy programme has been jointly developed as part of a regional collaboration to establish an integrated training strategy to address the shortage of trained people required in the areas of renewable energy. The collaborating institutions are: University of Dar es Salaam (Tanzania), Makerere University (Uganda), University Eduardo Mondlane (Mozambique), University of Addis Ababa (Ethiopia), NTNU (Norway) and the PREA Programme. The programme is hosted and coordinated by the Department of Mechanical and Industrial Engineering.

The Master degree programme focuses on training engineers and scientists in harnessing of energy from renewable energy sources (solar, water, wind and biomass) and utilisation in the built environment in order to have a sustainable environment that would meet our present needs without compromising the ability of future generations to meet theirs. The Master of Science in Renewable Energy degree programme has four (4) specializations as shown below:

- i. Bio-energy, that is designed to qualify students for occupations and careers in area of bio-energy production, fuels process equipment designs, pollution associated risk assessors as well as energy efficiency. The MSc Renewable Energy-Bio-Energy specialization consists of a total of 180 credits. During the coursework phase, candidates must complete 72 credits of the core course modules and 48 credits of the elective courses. Upon successful completion of the coursework, candidates must complete 60 credits of dissertation,
- ii. Hydropower deals with areas of integrated water management, land survey, dams and canals construction, hydroelectric power house design and construction, water turbines and control system designs and installation, hydroelectric generators design and installation as well as electricity distribution networks design and monitoring. The MSc Renewable Energy-Hydropower specialization consists of a total of 180 credits. During the coursework time, candidates must complete 84 credits of the core course modules and 36 credits of the elective courses. Upon successful completion of the coursework, candidates must complete 60 credits of dissertation,
- iii. Solar and wind energy systems designed to introduce emerging technologies associated with solar and wind energies integrated with management skills. It is designed to qualify students for occupations and careers in solar energy systems design and installation, PV and wind energy systems design and installation, solar energy design in built environment as well as energy management. The MSc Renewable- Energy-solar and wind energy specialization consists of a total of 180 credits. During the coursework, candidates must complete 72 credits of the core course modules and 48 credits of the elective courses. Upon successful completion of the coursework, candidates must complete 60 credits of dissertation and
- iv. Energy efficiency in buildings that is designed in such a way that graduates will be provided with a specialized knowledge in energy efficiency in built environment integrated with management skills. The programme is designed to qualify students for occupations and careers in residential and industrial energy efficiency and management field, building site planning and green buildings design and construction. The MSc Renewable Energy- Energy efficiency in buildings specialization consists of a total of 180 credits. During the coursework candidates must complete 72 credits of the core course modules and 48 credits of the elective courses. Upon successful completion of the coursework, candidates must complete 60 credits of dissertation.

1. Entry Requirements

Admission to the programme is in accordance with the University of Dar es Salaam general minimum entry requirements for Masters Degree programmes. Specifically, the admission to the degree of Master of Science in Renewable Energy, holders of a lower second-class degree in Mechanical, Chemical, Electrical, Electromechanical and Civil Engineering as well as Hydrology, Hydrogeology, Architecture, Town Planning, Quantity Surveying (Building Economics), and other Applied and Basic Sciences will be considered. Candidates for whom English is not their study language at undergraduate level have to prove their English proficiency.

2. Duration of the Programme

The Masters of Science in Renewable Energy programme lasts for eighteen (18) months.

List of Courses for the MSc in Renewable Energy Programme- Bio-Energy Specialization

| Semester I | | | Semester II | | |
|--|-------------------------------------|---------|--|----------------------------------|---------|
| Core Courses | | | Core Courses | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| EN 601 | Bioenergy | 12 | EN 615 | Biochemical Conversion Processes | 12 |
| EN 616 | Thermochemical Conversion Processes | 12 | EN 629 | Plant Design and Modelling | 12 |
| EM 601 | Mathematical Analysis | 12 | | | |
| MG 602 | Statistics and Research Methods | 12 | | | |
| Elective Courses (Select at least one course) | | | Elective Courses (Select at least one course) | | |
| MG 632 | Entrepreneurship Development | 12 | EN 617 | Optimization of Energy Systems | 12 |
| | | | EN 618 | Energy Policy and Planning | 12 |
| | | | EN 619 | Other Forms of Renewable Energy | 12 |
| | | | MG 623 | Project Management | 12 |
| Semester III | | | | | |
| EN 699 | Dissertation | | | | 60 |

List of Courses for the MSc in Renewable Energy Programme - Hydropower Specialization

| Semester I | | | Semester II | | |
|--|---------------------------------|---------|--|------------------------------------|---------|
| Core Courses | | | Core Courses | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| WR 640 | Hydropower | 12 | DP 671 | Hydropower Electrical Equipment | 12 |
| WR642 | Development of Small Hydropower | 12 | EN 627 | Hydropower Mechanical Equipment | 12 |
| EM 601 | Mathematical Analysis | 12 | WR643 | Hydraulic Structures in Hydropower | 12 |
| MG 602 | Statistics and Research Methods | 12 | | | |
| Elective Courses (Select at least 12 Credits) | | | Elective Courses (Select at least 24 Credits) | | |
| MG 632 | Entrepreneurship Development | 12 | EN 617 | Optimization of Energy Systems | 12 |
| | | | EN 618 | Energy Policy and Planning | 12 |
| | | | EN 619 | Other Forms of Renewable Energy | 12 |
| | | | MG 623 | Project Management | 12 |
| Semester III | | | | | |
| WR 699 | Dissertation | | | | 60 |

List of Courses for MSc in Renewable Energy Programme - Solar and Wind Energy Specialization

| Semester I | | | Semester II | | |
|--|---------------------------------|---------|--|--|---------|
| Core Courses | | | Core Courses | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| EN 602 | Solar energy | 12 | DP 670 | Electrical Energy Conversion in PV systems | 12 |
| EM 601 | Mathematical Analysis | 12 | EN 628 | Solar Thermal Technology | 12 |
| MG 602 | Statistics and Research Methods | 12 | | | |
| DP 613 | Solar Cell Technology | 12 | | | |
| Elective Courses (Select at least 12 credits) | | | Elective Courses (Select at least 36 credits) | | |
| MG 632 | Entrepreneurship Development | 12 | EN 617 | Optimization of Energy Systems | 12 |
| | | | EN 618 | Energy Policy and Planning | 12 |
| | | | EN 619 | Other Forms of Renewable Energy | 12 |
| | | | MG 623 | Project Management | 12 |
| Semester III | | | | | |
| DP 699 | Dissertation | | | | 60 |

List of Courses for MSc in Renewable Energy Programme - Energy Efficiency in Buildings Specialization

| Semester I | | | Semester II | | |
|---|--------------------------------------|---------|--|---|---------|
| Core Courses | | | Core Courses | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| EM 601 | Mathematical Analysis | 12 | EN626 | Heat Transfer and Thermal Insulation in Buildings | 12 |
| MG 602 | Statistics and Research Methods | 12 | SD682 | Low Energy Architecture | 12 |
| DP 603 | Electrical Energy Systems | 12 | SD 683 | Energy, Comfort and Buildings | 12 |
| Elective Courses (Select at least 24 credits) | | | Elective Courses (Select at least 24 credits) | | |
| MG 632 | Entrepreneurship Development | 12 | EN 617 | Optimization of Energy Systems | 12 |
| EN 601 | Bio-energy | 12 | EN 618 | Energy Policy and Planning | 12 |
| EN 616 | Thermo-chemical Conversion Processes | 12 | EN 619 | Other Forms of Renewable Energy | 12 |
| | | | MG 623 | Project Management | 12 |
| Semester III | | | | | |
| SD 699 | Dissertation | | | | 60 |

MASTER OF SCIENCE IN OIL AND GAS TECHNOLOGY

1. Introduction

The Masters of Science programme in Oil and Gas Technology consists of 180 credits. During the coursework, candidates must complete 112 credits of the core course modules and 8 credits of the elective

courses. Upon successful completion of the coursework, the candidate must complete 60 credits of dissertation.

2. Objectives of the Programme

The objective of the programme is to provide: masters level study of oil and gas engineering and related issues; skills and knowledge in oil and gas field with emphasis on subsea production systems, processing equipment, transport pipelines, supply chain and logistics, utilization in power plants and environmental issues; academic skills appropriate to independent postgraduate studies of oil and gas issues.

List of Courses for the Master of Science in Oil and Gas Engineering Programme

| Semester I | | | Semester II | | |
|--|---|---------|--|--|---------|
| Core Courses | | | Core Courses | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| IE 602 | Statistics and Research Methods | 10 | ME 611 | Computational Fluid Dynamics | 12 |
| ME 680 | Multiphase Transport | 10 | ME 688 | Pipeline Design, Operation and Maintenance | 12 |
| ME 681 | Natural Gas Technology | 12 | ME 683 | Gas Turbines and Turbocompressors | 10 |
| ME 682 | Subsea Production Systems | 12 | ME 684 | Field Development and Operations | 10 |
| ME 686 | Instrumentation and Metering Systems | 12 | ME 689 | Oil and Gas Supply Chain Management | 12 |
| Elective Courses (Select at least one course) | | | Elective Courses (Select at least one course) | | |
| ME 687 | Corrosion in Oil and Gas Systems | 10 | ME 685 | Petroleum Economics and Financing | 10 |
| ME 622 | Industrial Fuels and Conversion Processes | 10 | ME 614 | Energy Systems and Environmental Pollution | 10 |
| IE 623 | Project Management | 10 | IE 617 | Maintenance Management | 10 |
| Semester III | | | | | |
| ME 699 | Dissertation | | | | 60 |

DEPARTMENT OF CHEMICAL AND MINING ENGINEERING

The department of Chemical and Mining Engineering offers postgraduate programmes leading to the following awards:

- i. Postgraduate diploma in Chemical & Process Engineering
- ii. Postgraduate diploma in Environmental Engineering
- iii. Master of Science in Integrated Environmental Management
- iv. Master of Science in Chemical and Process Engineering

MASTER OF SCIENCE IN INTEGRATED ENVIRONMENTAL MANAGEMENT

1. Entry Requirements

To be eligible for admission into this programme, the student should satisfy the general University minimum requirements with the following additional requirements:

i. Direct Entry Requirement

An undergraduate degree in Engineering, Science or a related field from a recognized institution certified by TCU with at least a lower second-class award (GPA of at least 2.7 out of 5).

ii. Equivalent Entry Requirement

A Postgraduate Diploma in a relevant field (same or similar discipline) from a recognized institution certified by TCU with at least an upper second-class award (GPA of at least 3.5 out of 5) AND an Advanced Diploma in relevant field with at least lower second-class award OR undergraduate degree with at least a pass in related field.

2. Objectives of the Programme

The objectives of the programme are to:

- i. provide masters level study of environmental management and related issues;
- ii. provide career and personal development for current and potential professional environmental specialists, as well as for those seeking to develop their general understanding of environmental issues enable candidates to develop skills in environmental management that can be applied in businesses, commerce, government, communities and other areas of normal human life;
- iii. enable candidates to develop the academic skills appropriate to independent postgraduate study of environmental issues.

Table 1: Semester Mapping of Core and Elective Course for the Regular Mode

| Semester | Stream | Subject Code & Title | Credits | Total Credits |
|----------|--|---|---------|---------------|
| I | Common | EM 603: Environmental Management Systems | 12 | 24 |
| | | EM 604: Environmental Conservation | 12 | |
| | Core Biological | EM 610: Environmental Microbiology | 12 | 24 |
| | | EM 612: Environmental Biotechnology | 12 | |
| | Core Engineering | EM 620: Solid Waste Management and Resource Recovery | 12 | 24 |
| | | EM 622: Water and Wastewater Treatment: Engineering | 12 | |
| | Core Physical/Earth | EM 631: Water Resources and Soil Quality Management | 12 | 24 |
| | | EM 632: Land Degradation and Environmental Geology | 12 | |
| | Core Aquatic | EM 640: Aquatic Pollution and Ecotoxicology | 12 | 24 |
| | | EM 641: Aquatic Resources and Biodiversity Management | 12 | |
| | Elective | Elective 1 (Selected from the electives in Table 6) | 12 | 12 |
| | Total Credits Semester I for all streams | | | 60 |
| II | Common | SC 601: Research Methods | 12 | 36 |
| | | EM 606: Pollution Prevention and Control | 12 | |
| | | EM 605: Environmental Law and Policy | 12 | |
| | Core Biological | EM 611: Water and Wastewater Treatment: Chemical and Biological Processes | 12 | 12 |
| | Core Engineering | EM621: Air Pollution Prevention and Control | 12 | 12 |
| | Physical/Earth | EM 630 Environmental Chemistry | 12 | 12 |
| | Core Aquatic | EM 642: Physico-chemical Properties of Aquatic Systems | 12 | 12 |
| | Elective | Elective 2 (Selected from the electives Table 6) | 12 | 12 |
| | Total Credits Semester II for all streams | | | 60 |
| III | All Streams | EM 699: Dissertation | 60 | 60 |
| | Grand Total | | | 180 |

MASTER OF SCIENCE IN CHEMICAL AND PROCESS ENGINEERING

1. Entry Requirements

- A BSc Degree in a Chemical and Process Engineering field from a recognized institution with GPA of not less than 2.7 out of 5 or another equivalent BSc programme.
- A corresponding Postgraduate Diploma offered by College of Engineering and Technology, UDSM or any other recognized institution.
- The Admission Board will also consider applicants, with any other equivalent qualifications not mentioned above, subject to the Senate approval.

2. Objective of the Programme

The programme has the principal objective to train experts for managing chemical and process related fields.

3. List of Courses

| Semester I | | | Semester II | | |
|--|---|---------|--|--|---------|
| <i>Core Courses</i> | | | <i>Core Courses</i> | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| CP 601 | Transport Phenomena | 12 | CP 616 | Advanced Process Dynamics and Control | 12 |
| CP 602 | Separation Process | 12 | CP 630 | Experimental Design and Data Analysis | 12 |
| CP 603 | Introduction to Environmental Engineering | 12 | EM 602 | Numerical Analysis | 12 |
| CS 680 | Computer Programming | 12 | MG 624 | Contract Management and Administration | 12 |
| <i>Elective Courses (Select at least 12 credits)</i> | | | <i>Elective Courses (Select at least 12 credits)</i> | | |
| CP 604 | Plant Design and Optimization | 12 | CP 608 | Advanced Chemical Reaction Engineering | 12 |
| CP 605 | Food Process Engineering | 12 | CP 609 | Process Energy Management | 12 |
| CP 607 | Advanced Process Technology | 12 | CP 681 | Advanced Pulping Technology | 12 |
| Semester III | | | | | |
| CP 699 | Dissertation | | | | 60 |

POSTGRADUATE DIPLOMA IN ENVIRONMENTAL ENGINEERING

1. Entry Requirements

Advance diploma or equivalent in Engineering in the relevant field from a recognized College or A pass degree in Engineering in the relevant field from a recognized University.

2. List of Courses

| Semester I | | | Semester II | | |
|---------------------|--|---------|---------------------|---|---------|
| <i>Core Courses</i> | | | <i>Core Courses</i> | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| CP 522 | Air Pollution Prevention and Control | 12 | MG 440 | Engineering Economics | 8 |
| CP 521 | Solid Waste Management | 12 | | | |
| WR 602 | Water Pollution Prevention and Control | 12 | CP 623 | Resource Utilization and Environmental Technology | 12 |
| CP 503 | Engineering Thermodynamics | 8 | | | |
| CP 508 | Computer Applications | 12 | CP 599 | Project | 16 |

| <i>Elective Courses (Select at least 12credits)</i> | | | <i>Elective Courses (Select at least 24 credits)</i> | | |
|---|--|----|--|--|----|
| CP 605 | Food Process Engineering | 12 | CP 406 | Process Dynamics and Control | 12 |
| CP 607 | Advanced Process Technology | 12 | MG 440 | Engineering Economics | 8 |
| CP 609 | Process Energy Management | 12 | CP 625 | Hazard and Operability (HAZOP) Studies | 12 |
| CP 626 | Hazard Analysis (HAZAN) Risk Assessment Occupational Safety and Health Hazards | 12 | CP 628 | Soil and Ground Water Pollution from agricultural Activities | 12 |
| CP 615 | Environmental Management | 12 | WR 614 | Water Resources Management | 12 |
| CP 627 | Radiation Hazards and Protection | 12 | | | |

Courses shown above with 600 codes are Master level courses.

Credits scored in the Master level courses may be transferred to a Masters programme.

POSTGRADUATE DIPLOMA IN CHEMICAL AND PROCESS ENGINEERING

1. Entry Requirements

Advance diploma or equivalent in Engineering in the relevant field from a recognized College or A pass degree in Engineering in the relevant field from a recognized University.

2. List of Courses

| Semester I | | | Semester II | | |
|---|--|----------------|---|---|----------------|
| <i>Core Courses</i> | | | <i>Core Courses</i> | | |
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| CP 410 | Elements of Environmental Engineering | 12 | CP 425 | Plant Design and Economics | 12 |
| CP 501 | Principles of Chemical and Process Engineering | 8 | MG 440 | Engineering Economics | 8 |
| CP 503 | Engineering Thermodynamics | 8 | | | |
| CP 514 | General Chemistry | 8 | | | |
| CP 508 | Computer Applications | 12 | | | |
| | | | CP 599 | Project | 16 |
| <i>Elective Courses (Select at least 12credits)</i> | | | <i>Elective Courses (Select at least 24credits)</i> | | |
| CP 371 | Plastic Technology | 12 | CP 479 | Engineering Properties of Foods and Packaging Materials | 12 |
| CP 406 | Process Dynamics and Control | 12 | CP 609 | Process Energy Management | 12 |
| CP 472 | Introduction to Industrial Ecology | 12 | CP 209 | Biochemical Engineering | 12 |
| | | | CP 379 | Fermentation Technology and its Applications | 12 |

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Lecturer and Deputy Manager (Technology Development)

E. E. Mbise, BSc (Dar), MSc (Manchester) PhD (NTU)

Lecturer and Deputy Manager (Technology Transfer)

J. J. Justo, BSc (Dar), PhD (Dongguk)

Head of Workshop (TDTC)

Eng. R. W. Mwaruka

Multidisciplinary Workshop

Foremen

J. N. Mndeme
R. M. Ismail
Y. S. Mohamedi
S. M. Chambuso
W. Y. Mlacha
J. Mbolela

Senior Artisans I

J. H. Mwanahumu
M. J. Lugenge

Artisan II

A. C. Nyenyembe

Secretary

Q. Mwalukunga

Training Workshops (TWs)

Senior Workshop Instructor I and Head

M. S. Killo, FTC (DTC), ADE (DIT), PGD (Dar)

Laboratory Engineer III

A. Mwaibambe

Chief Workshop Instructors

M. P. Jahulula, FTC (TCA), ADE (DIT), PGD, MEM (Dar), MBA (Tumaini)

W. R. Mwaruka, BSc, MSc (Dar)

A. A. Mchomvu, FTC (TCA), BSc (OUT)

Principal Workshop Instructor II

C. E. B. M. Amos, ADE (DIT), PGD, MSc (Dar)

Senior Workshop Instructor I

M.S. Killo, FTC (DTC), ADE (DIT), PGD (Dar)

Workshop Instructors I

F. R. Duduye, FTC (TCA), ADE (DIT), PGD (Dar)

G. P. Makusa, BSc (Dar), MSc, PhD (Stockholm)

J. S. Mnendendo, BSc, MSc (Dar)

S. P. Kyabula, BSc (Dar)

R. D. Kokushuliza, BSc, MSc (Dar)

Workshop Instructors II

E. W. Mkenda, Dip (ATC), BScEng (DIT)

J. I. Kiyenzemale

Principal Inspector of Works

P. S. Asenga

Principal Technician II

R. J. Manota, FTC (DIT), ADE (MIST)

Senior Technician I

M. E. Msengi, Cert (Germany), FTC (DIT)

Senior Laboratory Assistant II

D. R. Mutayoba, Trade Test Grade I (NVTC)

Foreman

S. J. Mhando

Principal Artisans I

H. Ndiale, Trade Test Grade I

T. R. Mwanjala, Trade Test Grade I

M. Ramadhani

Principal Artisans II

A. L. Kwembe, Trade Test Grade I

C. C. Kalikera, Trade Test Grade I

Senior Artisans I

J. J. Msenji, Trade Test Grade I

Artisans IV

P. E. Buzoya

F. F. Mtafya

Y. O. Juma

Secretary II

D. L. Mataro

*On Study Leave

**On Sabbatical Leave

***On Leave of Absence/Secondment

COLLEGE OF HUMANITIES (CoHU)

INTRODUCTION

The College of Humanities (CoHU) comprises of six academic departments, namely; Archaeology and Heritage Studies, Creative Arts, Foreign Languages and Linguistics, History, Literature, and Philosophy and Religious Studies. The College also has two centres namely; the Centre for Communication Studies (CCS) and Humanities Research Centre (HRC).

PROGRAMMES OFFERED BY THE COLLEGE OF HUMANITIES

The College of Humanities has facilities in all departments to enable students to undertake advanced works and researches under supervision for MA and PhD programmes of the University of Dar es Salaam. All MA degrees are offered in two modes, namely by coursework and dissertation as well as by thesis, while all PhD programmes are offered by thesis.

The table shows all the details of the MA and PhD programmes offered by the College.

List of Programme Offered

| S/N | Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|-----|---------------------------------------|-----------------------------|------------------|-----------|-----------------|---------------------|
| | | | | | Tanzanian (TZS) | Non Tanzanian (USD) |
| 1 | Master of Arts in History | Coursework and Dissertation | Full-time | 18 months | 2,880,000 | 6,030 |
| 2 | Master of Arts in History | Thesis | Full-time | 24 months | 3,350,000 | 8,040 |
| 3 | Master of Arts in Archaeology | Coursework and Dissertation | Full-time | 18 months | 2,880,000 | 6,030 |
| 4 | Master of Arts in Archaeology | Thesis | Full-time | 24 months | 3,350,000 | 8,040 |
| 5 | Master of Arts in Heritage Management | Coursework and Dissertation | Full-time | 18 months | 2,880,000 | 6,030 |
| 6 | Master of Arts in Heritage Management | Thesis | Full-time | 24 months | 3,350,000 | 8,040 |
| 7 | Master of Arts in Fine Arts | Coursework and Dissertation | Full-time | 18 months | 2,880,000 | 6,030 |
| 8 | Master of Arts in Fine Arts | Thesis | Full-time | 24 months | 3,350,000 | 8,040 |
| 9 | Master of Arts in Music | Coursework and Dissertation | Full-time | 18 months | 2,880,000 | 6,030 |
| 10 | Master of Arts in Music | Thesis | Full-time | 24 months | 3,350,000 | 8,040 |
| 11 | Master of Arts in Theatre | Coursework and Dissertation | Full-time | 18 months | 2,880,000 | 6,030 |
| 12 | Master of Arts in Theatre | Thesis | Full-time | 24 months | 3,350,000 | 8,040 |
| 13 | Master of Arts in Linguistics | Coursework and Dissertation | Full-time | 18 months | 2,880,000 | 6,030 |

| S/N | Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|-----|---|-----------------------------|------------------|-----------|-----------------|---------------------|
| | | | | | Tanzanian (TZS) | Non Tanzanian (USD) |
| 14 | Master of Arts in Linguistics | Thesis | Full-time | 24 months | 3,350,000 | 8,040 |
| 15 | Master of Arts in Literature | Coursework and Dissertation | Full-time | 18 months | 2,880,000 | 6,030 |
| 16 | Master of Arts in Literature | Thesis | Full-time | 24 months | 3,350,000 | 8,040 |
| 17 | Master of Arts in Ethics of Governance and Public Service | Coursework and Dissertation | Full-time | 18 months | 2,880,000 | 6,030 |
| 18 | Master of Arts in Ethics of Governance and Public Service | Thesis | Full-time | 24 months | 3,350,000 | 8,040 |
| 19 | Doctor of Philosophy (PhD) in History | Thesis | Full-time | 36 months | 2,500,000 | 4,020 |
| 20 | Doctor of Philosophy (PhD) in History | Thesis | Part-time | 60 months | 2,500,000 | 4,020 |
| 21 | Doctor of Philosophy (PhD) in Archaeology | Thesis | Full-time | 36 months | 2,500,000 | 4,020 |
| 22 | Doctor of Philosophy (PhD) in Archaeology | Thesis | Part-time | 60 months | 2,500,000 | 4,020 |
| 23 | Doctor of Philosophy (PhD) in Heritage Management | Thesis | Full-time | 36 months | 2,500,000 | 4,020 |
| 24 | Doctor of Philosophy (PhD) in Heritage Management | Thesis | Part-time | 60 months | 2,500,000 | 4,020 |
| 25 | Doctor of Philosophy (PhD) in Fine Arts | Thesis | Full-time | 36 months | 2,500,000 | 4,020 |
| 26 | Doctor of Philosophy (PhD) in Fine Arts | Thesis | Part-time | 60 months | 2,500,000 | 4,020 |
| 27 | Doctor of Philosophy (PhD) in Music | Thesis | Full-time | 36 months | 2,500,000 | 4,020 |
| 28 | Doctor of Philosophy (PhD) in Music | Thesis | Part-time | 60 months | 2,500,000 | 4,020 |
| 29 | Doctor of Philosophy (PhD) in Theatre | Thesis | Full-time | 36 months | 2,500,000 | 4,020 |

| S/N | Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|-----|---|------------------|------------------|-----------|-----------------|---------------------|
| | | | | | Tanzanian (TZS) | Non Tanzanian (USD) |
| 30 | Doctor of Philosophy (PhD) in Theatre | Thesis | Part-time | 60 months | 2,500,000 | 4,020 |
| 31 | Doctor of Philosophy (PhD) in Linguistics | Thesis | Full-time | 36 months | 2,500,000 | 4,020 |
| 32 | Doctor of Philosophy (PhD) in Linguistics | Thesis | Part-time | 60 months | 2,500,000 | 4,020 |
| 33 | Doctor of Philosophy (PhD) in Literature | Thesis | Full-time | 36 months | 2,500,000 | 4,020 |
| 34 | Doctor of Philosophy (PhD) in Literature | Thesis | Part-time | 60 months | 2,500,000 | 4,020 |
| 35 | Doctor of Philosophy (PhD) in Religious Studies | Thesis | Full-time | 36 months | 2,500,000 | 4,020 |
| 36 | Doctor of Philosophy (PhD) in Comparative Religions | Thesis | Full-time | 36 months | 2,500,000 | 4,020 |
| 37 | Doctor of Philosophy (PhD) in Philosophy | Thesis | Full-time | 36 months | 2,500,000 | 4,020 |
| 38 | Doctor of Philosophy in Communication Studies | Thesis | Full-time | 36 months | 2,500,000 | 4,020 |

POSTGRADUATE DIPLOMA OFFERED BY THE COLLEGE OF HUMANITIES

Currently, the College does not offer any Postgraduate Diploma programme.

MASTER PROGRAMMES OFFERED BY BY COLLEGE OF HUMANITIES DEPARTMENT OF ARCHAEOLOGY AND HERITAGE STUDIES

1. Introduction

The department of Archaeology and Heritage Studies under College of Humanities offers two Master degree programmes, namely;

- i. Master of Arts in Archaeology – MA (Archaeology)
- ii. Master of Arts in Heritage Management – MA (Heritage Management)

2. Objectives of the Programme

The objectives of these postgraduate studies programme are to:

- i. Extend the existing generalized undergraduate studies by offering specialized teaching and instruction at an advanced level to meet Tanzania's immediate professional needs;
- ii. Create awareness of the problems of African development and a personal commitment to humanistic knowledge in Tanzania;
- iii. Encourage an interdisciplinary approach and joint research among all the University's humanities departments; and
- iv. Generate teaching and research materials with direct relevance to contemporary policy issues in Tanzania.

3. Entry Requirements for MA (Archaeology) and MA (Heritage Management) Programmes

To be eligible for admission, the candidate must fulfill the following conditions:

- i. A relevant Bachelor degree or its equivalent
- ii. Positive recommendations from the minimum of two referees

4. Programme Structure

The MA (Archaeology) and MA (Heritage Management) are being offered by both coursework and dissertation and thesis modes. The coursework and dissertation mode consists of nine months of instruction, followed by a terminal period of nine months of writing a dissertation. The instructional period is divided into two semesters, consisting of 15 teaching weeks and a 2-week period for revision and semester examinations.

5. List of Courses

MASTER OF ARTS IN ARCHAEOLOGY – MA (ARCHAEOLOGY)

Core Courses

| Course Code | Course Title | Credits |
|--|--|---------|
| Year 1: Semester I | | |
| AY 600 | Archaeological Approaches | 12 |
| AY 601 | Africa and the Emergency of Prehistoric Cultures | 12 |
| AY 602 | Development of Archaeological Theory | 12 |
| HM 607 | Managing Archaeological Sites | 12 |
| <i>Elective Courses (Choose two Electives)</i> | | |
| Course Code | Course Title | Credits |
| AY 608 | Advanced Archaeometallurgy | 12 |
| AY 609 | Architectural Technology in Archaeology | 12 |
| AY 610 | Technologies of Organic Materials | 12 |
| Year 1: Semester II | | |
| <i>Core Courses</i> | | |
| Course Code | Course Title | Credits |
| AY 603 | Africa and the Emergence of Humankind | 12 |
| AY 604 | Advanced Research Methods in Archaeology | 12 |
| AY 605 | The Emergence of Africa's Complex Cultures | 12 |
| <i>Selective Courses (Choose Two)</i> | | |
| AY 606 | Lithic Technology | 12 |
| AY 607 | Ceramic Technology | 12 |
| AY 611 | Development of Archaeology in Tanzania | 12 |
| AY 612 | Themes in World Prehistory | 12 |

Compulsory Course: Semester I – II

| Course Code | Course Title | Credits |
|-------------|--|---------|
| AY 613 | Academic Writing in Heritage and Archaeology | 00 |
| AY 699 | MA Dissertation | 60 |

MASTER OF ARTS IN HERITAGE MANAGEMENT – MA (HERITAGE MANAGEMENT)

Year 1: Semester I

Core Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| HM 600 | Cultural Heritage Conservation | 12 |
| HM 601 | Principles Governing Management of Heritage Resources | 12 |
| HM 602 | Cultural Heritage and related Policies | 12 |
| HM 607 | Managing Archaeological Sites | 12 |
| HM 610 | Heritage and the Public | 12 |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|--|---------|
| HM 608 | Managing and Use of Museum Collections | 12 |
| HM 609 | Managing Archival Resources | 12 |

Year 1: Semester II

Core Courses

| Course Code | Course Title | Credits |
|-------------|--|---------|
| HM 603 | Heritage for Tourism | 12 |
| HM 605 | Advanced Research Methodology in Heritage Management | 12 |
| HM 606 | Managing Intangible Heritage | 12 |

Elective Courses

| | | |
|--------|---|----|
| HM 604 | Cultural Heritage Impact Assessment (CHIA) | 12 |
| HM 611 | Geographic Information Systems in Archaeology | 12 |
| HM 612 | Marketing and Promoting Heritage Resources | 12 |

Compulsory Course: Semester I – II

| Course Code | Course Title | Credits |
|-------------|--|---------|
| HM 613 | Academic Writing in Heritage and Archaeology | 00 |
| HM 699 | MA Dissertation | 60 |

6. Programme Evaluation and Examinations

For these two MA programmes which are being offered by Coursework and Dissertation, assessment will be as follows;

50% - Coursework

50% - Final examinations

100% - Dissertation

For Dissertation:

Candidates who have successfully completed the coursework phase will be allowed to proceed to the dissertation phase. (Note that assessment and examinations will be conducted in accordance with the General Regulations and Guidelines for postgraduate Programmes of the University of Dar es Salaam 2013). The terminal period of 9 months is directed towards the completion of a dissertation. The dissertation is done after the candidate completes and passes the coursework. The MA degree will not be granted until the dissertation has been satisfactorily completed.

DEPARTMENT OF HISTORY

1. Introduction

The department of History under College of Humanities offers one Master degree programme namely, Master of Arts in History – MA (History).

2. Objectives of the Programme

The objectives of this postgraduate programme are to:

- i. extend the existing generalized undergraduate studies by offering specialized teaching and instruction at an advanced level to meet Tanzania's immediate professional needs;
- ii. create awareness of the problems of African development and a personal commitment to humanistic knowledge in Tanzania;
- iii. encourage an interdisciplinary approach and joint research among all the University's humanities departments; and
- iv. generate teaching and research materials with direct relevance to contemporary policy issues in Tanzania.

3. Entry Requirements for MA (History)

To be eligible for admission, the candidate must fulfill the following conditions:

- i. A relevant Bachelor degree or its equivalent
- ii. Positive recommendations from the minimum of two referees

4. Programme Structure

The MA (History) is being offered by both coursework and dissertation and thesis modes. The coursework and dissertation mode consists of nine months of instruction, followed by a terminal period of nine months of writing a dissertation. The instructional period is divided into two semesters, consisting of 15 teaching weeks and a 2-week period for revision and semester examinations.

5. List of Courses

MASTER OF ARTS IN HISTORY – MA (HISTORY)

Year 1: Semester I

Core Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| HI 605 | Theory of History | 12 |
| HI 606 | Historiography of Africa | 12 |
| HI 607 | History Research Methods and Techniques | 12 |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|--|---------|
| HI 612 | Topics in Tanzania Environmental History | 12 |
| HI 614 | Diseases and Healing in Africa: Late 19 th Century to the Present | 12 |
| AY 620 | History of Heritage Conservation | 12 |
| AY 621 | Theories and Principles Governing Management of Heritage Resources | 12 |

Year 1: Semester II

Core Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| HI 608 | Preparation of History research proposals | 12 |
| HI 609 | Global Capitalism and Africa | 12 |
| HI 611 | Colloquium on the political economy of Tanzania | 12 |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| HI 613 | History of Labour in Sub Saharan Africa | 12 |
| HI 610 | African History and Allied Sciences | 12 |
| AY 624 | Heritage for Tourism | 12 |
| AY 625 | Heritage Management and Conservation | 12 |

Year 2

Core Courses

| Course Code | Course Title | Credits |
|-------------|--------------|---------|
| HI 699 | Dissertation | 60 |

6. Programme Evaluation and Examinations

Assessment

For this MA programme (Coursework and Dissertation mode) will be assessed as follows;

50% - Coursework

50% - Final examinations

100% - Dissertation

For Dissertation:

Candidates who have successfully completed the coursework phase will be allowed to proceed to the dissertation phase. (*Note that assessment and examinations will be conducted in accordance with the General Regulations and Guidelines for postgraduate Programmes of the University of Dar es Salaam 2013*). The terminal period of 9 months is directed towards the completion of a dissertation. The dissertation is done after the candidate completes and passes the coursework. The MA (History) degree will not be granted until the dissertation has been satisfactorily completed.

DEPARTMENT OF CREATIVE ARTS

1. Introduction

The department of Creative Arts under College of Humanities offers three Master degree programmes namely;

- i. Master of Arts in Fine Arts – MA (Fine Arts)
- ii. Master of Arts in Theatre Arts – MA (Theatre Arts)
- iii. Master of Arts in Music – MA (Music)

2. Objectives of the Programme

The objectives of these postgraduate programmes are to:

- i. Extend the existing generalized undergraduate studies by offering specialized teaching and instruction at an advanced level to meet Tanzania's immediate professional needs;
- ii. Create awareness of the problems of African development and a personal commitment to humanistic knowledge in Tanzania;
- iii. Encourage an interdisciplinary approach and joint research among all the University's humanities departments; and
- iv. Generate teaching and research materials with direct relevance to contemporary policy issues in Tanzania.

3. Entry Requirement for MA Degree Programmes

To be eligible for admission to these programmes offered by Department of Creative Arts, the candidate must fulfill the following conditions:

- i. A relevant Bachelor degree or its equivalent
- ii. Positive recommendations from the minimum of two referees

4. Programme Structure

These MA degrees are offered by both coursework and dissertation and thesis modes. The coursework and dissertation mode consists of nine months of instruction, followed by a terminal period of nine months of writing a dissertation. The instructional period is divided into two semesters, consisting of 15 teaching weeks and a 2-week period for revision and semester examinations.

5. List of Courses

MASTER OF ARTS IN FINE ARTS – MA (FINE ARTS)

Year 1: Semester I

Core Courses

| Code | Course Title | Credits |
|--------|--|---------|
| CA 600 | Research Methods in the Arts | 12 |
| CA 602 | Art Education | 12 |
| CA 603 | Trends and Movements in Traditional African Art | 12 |
| CA 623 | Trends and Movements in Contemporary African Art Form and Social Content | 12 |

Elective Courses

| Code | Course Title | Credits |
|--------|-----------------------------------|---------|
| CA 621 | Studies in Contemporary Sculpture | 12 |
| CA 631 | African Art and the Diaspora | 12 |
| CA 612 | Applied studies in Printmaking | 12 |

Year 1: Semester II

Core Courses

| Code | Course Title | Credits |
|--------|---------------------------------------|---------|
| CA 610 | Philosophy of the Arts and Aesthetics | 12 |
| CA 611 | Graphic Communication Design | 12 |
| CA 622 | Applied Studies in Drawing | 12 |
| CA 632 | Applied Studies in Painting | 12 |

Elective Courses

| Code | Course Title | Credits |
|--------|--|---------|
| CA 633 | African Fashion and Textile Design | 12 |
| CA 601 | Rock Art Theories and Research | 12 |
| CA 613 | Applied visual Arts and Products Advertizing | 12 |

Year 2

Core Courses

| Code | Course Title | Credits |
|--------|--------------|---------|
| CA 699 | Dissertation | 60 |

MASTER OF ARTS IN THEATRE ARTS – MA (THEATRE ARTS)

Year 1: Semester I

Core Courses

| Code | Course Title | Credits |
|--------|--------------------------------|---------|
| CA 600 | Research Methods in the Arts | 12 |
| CA 607 | Theories of History of Theatre | 12 |
| CA 608 | Playwriting | 12 |
| CA 609 | African Drama | 12 |

Elective Courses

| Code | Course Title | Credits |
|--------|--------------------------------------|---------|
| CA 627 | Theories and Practices in Acting | 12 |
| CA 628 | Television Drama and Behavior Change | 12 |
| CA 629 | Drama Therapy | 12 |

Year 1: Semester II*Core Courses*

| Code | Course Title | Credits |
|--------|--|---------|
| CA 610 | Philosophy of the Arts and Aesthetics | 12 |
| CA 617 | Political Economy of the Creative Industries | 12 |
| CA 618 | The Development of Tanzania Theatre | 12 |
| CA 619 | Techniques of Theatre Directing | 12 |

Elective Courses:

| Code | Course Title | Credits |
|--------|-------------------------------|---------|
| CA 637 | Radio Drama for Social Change | 12 |
| CA 638 | Production Design | 12 |
| CA 639 | Theatre Management | 12 |

Year 2*Core Courses*

| Code | Course Title | Credits |
|--------|--------------|---------|
| CA 699 | Dissertation | 60 |

MASTER OF ARTS IN MUSIC – MA (MUSIC)**Year 1: Semester I***Core Courses*

| Course Code | Course Title | Credits |
|-------------|--|---------|
| CA 600 | Research Methods in the Arts | 12 |
| CA 604 | Trends and Theories in Ethnomusicology | 12 |
| CA 605 | Musical Arts Education | 12 |
| CA 606 | Popular Music, Media and Social Identities in Tanzania | 12 |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|-----------------------|---------|
| CA 614 | Music Analysis | 12 |
| CA 615 | Music, Song and Dance | 12 |

Year 1: Semester II*Core Courses*

| Course Code | Course Title | Credits |
|-------------|---------------------------------------|---------|
| CA 610 | Philosophy of the Arts and Aesthetics | 12 |
| CA 616 | Selected Music Traditions in Tanzania | 12 |
| CA 624 | Issues in African Musicology | 12 |
| CA 626 | Creative Ethnomusicology | 12 |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|--|---------|
| CA 625 | Music for Development in Africa | 12 |
| CA 617 | Political Economy of Creative Industries | 12 |

Year 2

Core Courses

| Course Code | Course Title | Credits |
|-------------|--------------|---------|
| CA 699 | Dissertation | 60 |

6. Programme Evaluation and Examinations

Assessment

For these MA programmes under department of Creative Arts (coursework and Dissertation mode) will be assessed as follows;

50% - Coursework

50% - Final examinations

100% - Dissertation

For Dissertation:

Candidates who have successfully completed the coursework phase will be allowed to proceed to the dissertation phase. (*Note that assessment and examinations will be conducted in accordance with the General Regulations and Guidelines for postgraduate Programmes of the University of Dar es Salaam 2013*). The terminal period of 9 months is directed towards the completion of a dissertation. The dissertation is done after the candidate completes and passes the coursework. The MA degrees will not be granted until the dissertation has been satisfactorily completed.

DEPARTMENT OF LITERATURE

1. Introduction

The department of Literature under College of Humanities offers one Master degree programme, namely Master of Arts in Literature – MA (Literature).

2. Objectives of the Programme

The objectives of this postgraduate programme are to:

- i. Extend the existing generalized undergraduate studies by offering specialized teaching and instruction at an advanced level to meet Tanzania's immediate professional needs;
- ii. Create awareness of the problems of African development and a personal commitment to humanistic knowledge in Tanzania;
- iii. Encourage an interdisciplinary approach and joint research among all the University's humanities departments; and
- iv. Generate teaching and research materials with direct relevance to contemporary policy issues in Tanzania.

3. Entry Requirements

To be eligible for admission to this programme offered by this department, the candidate must fulfill the following conditions:

- i. A relevant Bachelor degree or its equivalent
- ii. Positive recommendations from the minimum of two referees

4. Programme Structure

MA Literature is being offered by both coursework and dissertation and thesis modes. The coursework and dissertation mode consist of nine months of instruction, followed by a terminal period of nine months of writing a dissertation. The instructional period is divided into two semesters, consisting of 15 teaching weeks and a 2-week period for revision and semester examinations.

5. List of Courses

MASTER OF ARTS IN LITERATURE

Year 1: Semester I

Core Courses

| Course Code | Course Title | Credits |
|-------------|-------------------------------|---------|
| LT 610 | Literary Theory and Criticism | 12 |
| LT 611 | Evolution of African Writing | 12 |
| LT 612 | Studies in the Epic | 12 |
| LT 614 | Trends in Modern Literature | 12 |

Elective Courses

| | | |
|--------|---------------------------------|----|
| LT 615 | Linguistic Studies of the Novel | 12 |
| LT 619 | Perspectives in Writing | 12 |

Semester II

Core Courses

| Course Code | Course Title | Credits |
|-------------|-------------------------|---------|
| LT 616 | Research Methods | 12 |
| LT 617 | Folklore and Society | 12 |
| LT 618 | Postcolonial Literature | 12 |
| LT 620 | Sociology of Literature | 12 |

Elective Courses

| | | |
|--------|------------------------------------|----|
| LT 600 | Dramaturgy and Dramatic Literature | 12 |
| LT 613 | Prisons and Exile Literature | 12 |

Year 2

Core Courses

| Course Code | Course Title | Credits |
|-------------|--------------|---------|
| LT 699 | Dissertation | 60 |

6. Programme Evaluation and Examinations

Assessment

MA Literature is an eighteen (18) months Master programme with 180 minimum credits. A minimum of 120 credits must be attained to complete the coursework portion of the programme. In the first year, a student must take 5 courses per semester making it a total of 10 courses equaling to 120 credits to be accomplished in the first nine months of the programme.

For Dissertation:

Candidates who have successfully completed the coursework phase will be allowed to proceed to the dissertation phase. (*Note that assessment and examinations will be conducted in accordance with the General Regulations and Guidelines for postgraduate Programmes of the University of Dar es Salaam 2013*). The terminal period of 9 months is directed towards the completion of a dissertation. The dissertation is done after the candidate completes and passes the coursework and shall weigh 60 credits. This MA degree will not be granted until the dissertation has been satisfactorily completed

DEPARTMENT OF PHILOSOPHY AND RELIGIOUS STUDIES

1. Introduction

The department of Philosophy and Religious Studies under College of Humanities offers one Master degree programme, namely Master of Arts in Ethics of Governance and Public Services – MA (Ethics of Governance and Public Services)

2. Objectives of the Programme

The objectives of this postgraduate programme are to:

- i. Extend the existing generalized undergraduate studies by offering specialized teaching and instruction at an advanced level to meet Tanzania's immediate professional needs;
- ii. Create awareness of the problems of African development and a personal commitment to humanistic knowledge in Tanzania;
- iii. Encourage an interdisciplinary approach and joint research among all the University's humanities departments; and
- iv. Generate teaching and research materials with direct relevance to contemporary policy issues in Tanzania.

3. Entry Requirements

To be eligible for admission to MA (Ethics of Governance and Public Services) programme, the candidate must fulfill the following conditions:

- i. A relevant Bachelor degree or its equivalent
- ii. Positive recommendations from the minimum of two referees

4. Programme Structure

MA Ethics of Governance and Public Services programme is being offered by both coursework and dissertation and thesis modes. The coursework and dissertation mode consists of nine months of instruction, followed by a terminal period of nine months of writing a dissertation. The instructional period is divided into two semesters, consisting of 15 teaching weeks and a 2-week period for revision and semester examinations.

5. List of Courses

MASTER OF ARTS IN ETHICS OF GOVERNANCE AND PUBLIC SERVICES

Year 1: Semester I

Core Courses

| Course Code | Course Title | Credits |
|-------------|--|---------|
| PL 611 | Ethical Theory | 12 |
| PL 621 | Legal Aspects of Governance and Public Service | 12 |
| DS 623 | Governance for Development | 12 |
| PL 631 | Ethics in Public Administration | 12 |
| DS 690 | Research Methodology I | 12 |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| PL 311 | Professional and Civic Ethics | 12 |
| PL 351 | Business Ethics | 12 |
| PA 603 | Administrative Theory: Concepts, Models and Paradigms | 12 |
| DS 665 | Political Thought for Development | 12 |

Year 1: Semester II

Core Courses

| Course Code | Course Title | Credits |
|-------------|------------------------------------|---------|
| PL 612 | Methods of Practical Ethics | 12 |
| PL 622 | Social Ethics and Political Ethics | 12 |
| PL 632 | Public Service Ethics in Tanzania | 12 |
| DS 691 | Research Methodology II | 12 |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|---------------------------------------|---------|
| PL 652 | Public Health Ethics | 12 |
| PL 322 | Development Ethics and Global Justice | 12 |

| | | |
|--------|---|----|
| PL 332 | Ethics of Leadership and Management | 12 |
| PL 232 | Climate Change and Environmental Ethics | 12 |
| DS 649 | Globalization and Development | 8 |

Year 2

| | | |
|--------|--------------|----|
| PL 699 | Dissertation | 60 |
|--------|--------------|----|

6. Programme Evaluation and Examinations

Assessment

The Master of Arts in Ethics of Governance and Public Services is an eighteen (18) months Master programme consisting of 2 semesters of course work plus writing of a Master dissertation. A student has to take at least 5 courses (60 credits) per semester, but can, with special permission, take 6 courses (72 credits) per semester. The programme also requires a student to acquire 60 credits for his/her MA Dissertation.

For Dissertation:

Candidates who have successfully completed the coursework phase will be allowed to proceed to the dissertation phase. (Note that assessment and examinations will be conducted in accordance with the General Regulations and Guidelines for postgraduate Programmes of the University of Dar es Salaam 2013). The terminal period of 9 months is directed towards the completion of a dissertation. The dissertation is done after the candidate completes and passes the coursework and shall weigh 60 credits. This MA degree will not be granted until the dissertation has been satisfactorily completed.

DEPARTMENT OF FOREIGN LANGUAGES AND LINGUISTICS

1. Introduction

The department of Foreign Languages and Linguistics under College of Humanities offers one Master degree programme namely Master of Arts in Linguistics – MA (Linguistics)

2. Objectives of the Programme

The objectives of this postgraduate programme are to:

- i. Extend the existing generalized undergraduate studies by offering specialized teaching and instruction at an advanced level to meet Tanzania's immediate professional needs;
- ii. Create awareness of the problems of African development and a personal commitment to humanistic knowledge in Tanzania;
- iii. Encourage an interdisciplinary approach and joint research among all the University's humanities departments; and
- iv. Generate teaching and research materials with direct relevance to contemporary policy issues in Tanzania.

3. Entry Requirements

To be eligible for admission, the candidate wishing to pursue MA in Linguistics by Coursework and Dissertation must fulfill the following conditions:

- i. A second-class degree of the University of Dar es Salaam or an equivalent degree from a recognised institution of higher learning
- ii. Candidates with Pass Degrees may also be considered for admission if their undergraduate performance in the proposed subject of study was a B grade or higher, and if they have satisfied the relevant College/School/Institute regarding their academic potential through subsequent research experience and/or additional training.
- iii. Candidates with a coursework average of B+ or higher in specified Postgraduate Diplomas may upgrade to registration for a dissertation leading to a relevant Master Degree.

For MA in Linguistics programme by thesis, a candidate must have at least an upper second degree in the relevant field.

4. Programme Structure

MA (Linguistics) programme is being offered by both coursework and dissertation and thesis modes. The course and dissertation mode consists of nine months of instruction, followed by a terminal period of nine months of writing a dissertation. The instructional period is divided into two semesters, consisting of 15 teaching weeks and a 2-week period for revision and semester examinations.

5. List of Courses

MASTER OF ARTS IN LINGUISTICS

STREAM A: Theoretical Linguistics

Semester I

Core Courses

| Course Code | Course Title | Credits |
|-------------|---------------------|---------|
| ML 631 | Advanced Phonology | 12 |
| ML 632 | Advanced Morphology | 12 |
| ML 633 | Advanced Syntax | 12 |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| ML 630 | Articulatory and Acoustic Phonetics | 12 |
| ML 634 | Advanced Semantics | 12 |
| ML 635 | Theory and Practice in Writing | 12 |
| ML 637 | Translation | 12 |
| ML 639 | Corpus Linguistics | 12 |
| ML 640 | Contact Linguistics | 12 |
| ML 641 | Advanced Historical and Comparative Linguistics | 12 |

Semester II

Core Courses

| Course Code | Course Title | Credits |
|-------------|--------------------------------|---------|
| ML 647 | African Language Structures | 12 |
| ML 648 | Linguistics Field Methods | 12 |
| ML 650 | Research Methods for Linguists | 12 |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| ML 646 | Stylistics | 12 |
| ML 648 | Linguistics Field Methods | 12 |
| ML 649 | Postgraduate Seminar (<i>recommended</i>) | 12 |
| ML 651 | Discourse Analysis | 12 |
| ML 638 | Lexicography | 12 |
| ML 636 | Sociolinguistics of International Languages | 12 |

Year 2

| Course Code | Course Title | Credits |
|-------------|--------------|---------|
| ML 699 | Dissertation | 60 |

STREAM B: English Language Teaching

Semester I

Core Courses

| Course Code | Course Title | Credits |
|-------------|---------------------|---------|
| ML 631 | Advanced Phonology | 12 |
| ML 632 | Advanced Morphology | 12 |
| ML 633 | Advanced Syntax | 12 |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|--------------------------------|---------|
| ML 634 | Advanced Semantics | 12 |
| ML 635 | Theory and Practice in Writing | 12 |
| ML 637 | Translation | 12 |
| ML 639 | Corpus Linguistics | 12 |
| ML 640 | Contact Linguistics | 12 |
| ML 642 | Psycholinguistics | 12 |
| ML 646 | Stylistics | 12 |

Semester II

Core Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| ML 643 | Advanced Second Language Acquisition | 12 |
| ML 644 | Language Course Design – Syllabus and Materials | 12 |
| ML 650 | Research Methods for Linguists | 12 |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| ML 645 | Language Assessment and Evaluation | 12 |
| ML 649 | Postgraduate Seminar (<i>recommended</i>) | 12 |
| ML 651 | Discourse Analysis | 12 |
| ML 638 | Lexicography | 12 |
| ML 636 | Sociolinguistics of International Languages | 12 |

Year 2

| Course Code | Course Title | Credits |
|-------------|--------------|---------|
| ML 699 | Dissertation | 60 |

6. Programme Evaluation and Examinations

Assessment:

The Master of Arts in Linguistics is an eighteen (18) months Master programme consisting of 2 semesters of course work plus writing of a Masters dissertation. A student has to take at least 5 courses (60 credits) per semester, but can, with special permission, take 6 courses (72 credits) per semester. The programme also requires the student to acquire 60 credits for his/her MA Dissertation.

For Dissertation:

Candidates who have successfully completed the coursework phase will be allowed to proceed to the dissertation phase. (*Note that assessment and examinations will be conducted in accordance with the General Regulations and Guidelines for postgraduate Programmes of the University of Dar es Salaam 2013*). The terminal period of 9 months is directed towards the completion of a dissertation. The dissertation is done after the candidate completes and passes the coursework and shall weigh 60 credits. This MA degree will not be granted until the dissertation has been satisfactorily completed

PHD PROGRAMMES OFFERED BY CoHU

The College of Humanities has facilities in all departments to enable students to undertake advanced research under supervision for PhD degrees of the University of Dar es Salaam. Currently, all PhD programmes are offered by thesis only and all are being offered by either full or part-time bases.

PHD PROGRAMMES PER OFFERING DEPARTMENT

1. Introduction

The College offers the following programmes within the following departments;

| S/N | Degree Programme | Hosting Department |
|-----|---|-----------------------------------|
| 1 | Doctor of Philosophy (PhD) in History (Full-time and Part-time) | History |
| 2 | Doctor of Philosophy (PhD) in Archaeology (Full-time and Part-time) | Archaeology and Heritage Studies |
| 3 | Doctor of Philosophy (PhD) in Heritage Management (Full-time and Part-time) | Archaeology and Heritage Studies |
| 4 | Doctor of Philosophy (PhD) in Fine Arts (Full-time and Part-time) | Creative Arts |
| 5 | Doctor of Philosophy (PhD) in Music (Full-time and Part-time) | Creative Arts |
| 6 | Doctor of Philosophy (PhD) in Theatre (Full-time and Part-time) | Creative Arts |
| 7 | Doctor of Philosophy (PhD) in Linguistics (Full-time and Part-time) | Foreign Languages and Linguistics |
| 8 | Doctor of Philosophy (PhD) in Literature (Full-time and Part-time) | Literature |
| 9 | Doctor of Philosophy (PhD) in Religious Studies (Full-time) | Philosophy and Religious Studies |
| 10 | Doctor of Philosophy (PhD) in Comparative Religions (Full-time) | Philosophy and Religious Studies |
| 11 | Doctor of Philosophy (PhD) in Philosophy (Full-time) | Philosophy and Religious Studies |
| 12 | Doctor of Philosophy in Communication Studies (Full-time) | Centre for Communication Studies |

2. Entry Requirements

To be eligible for admission, the candidate wishing to pursue PhD programmes offered by College of Humanities must fulfill all the requirements as prescribed per General Regulations and Guidelines of Postgraduate Programmes 2018.

3. Programmes Structure

All PhD programmes offered under the College of Humanities are currently being offered by thesis only and they are being provided on both full-time and part-time bases.

4. Programme Evaluation and Examinations

Evaluation of PhD by Thesis is 100%.

PRINCIPAL ADDRESSES OF THE COLLEGE OF HUMANITIES

| Address | Telephone | Ext. | E-Mail |
|--|------------------|-------------|-----------------------------|
| Principal College of Humanities P. O. Box 35051 Dar es Salaam | +255 22 2410472 | 2043/2049 | pcohu@udsm.ac.tz |
| Deputy Principal College of Humanities P. O. Box 35051 Dar es Salaam | +255 22 2410092 | 2402/2493 | dpcohu @udsm.ac.tz |
| Coordinator Postgraduate Studies College of Humanities P. O. Box 35051 Dar es Salaam | NIL | 2481/2487 | pgscohu@udsm.ac.tz |
| Coordinator Undergraduate Studies College of Humanities P. O. Box 35051 Dar es Salaam | +255 22 2410475 | 2481/2487 | ugscohu@udsm.ac.tz |
| Coordinator Practical Training College of Humanities P. O. Box 35051 Dar es Salaam | NIL | 2481 | ptcohu@udsm.ac.tz |
| Principal Administrative Officer College of Humanities P. O. Box 35051 Dar es Salaam | +255 22 2410247 | 2303 | paocohu@udsm.ac.tz |
| Head Department of Creative Arts College of Humanities P. O. Box 35044 Dar es Salaam | | | fpa@udsm.ac.tz |
| Head Department of Foreign Languages and Linguistics College of Humanities P. O. Box 35040 UDSM es Salaam | | | foreignlanguages@udsm.ac.tz |
| Head Department of History College of Humanities P. O. Box 35050 Dar es Salaam | | | history@udsm.ac.tz |
| Head Department of Literature College of Humanities P. O. Box 35041 Dar es Salaam | | | literature@udsm.ac.tz |

| | | | |
|---|--|-----------|------------------------|
| Head Department of Archaeology and Heritage Studies College of Humanities Dar es Salaam | | 2195/2191 | archaeology@udsm.ac.tz |
| Head Department of Philosophy and Religious Studies College of Humanities Dar es Salaam | | | philosophy@udsm.ac.tz |
| Director Centre for Communication Studies College of Humanities P.O. Box 35040 Dar es Salaam | | 2485/2405 | comstudies@udsm.ac.tz |
| Director Humanities Research Centre College of Humanities P.O Box 35051 Dar es Salaam | | 2407 | hrc@udsm.ac.tz |

CoHU STAFF LIST

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Principal of the College and Senior Lecturer

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Deputy Principal and Senior Lecturer

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Coordinator, Postgraduate Studies

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Coordinator, Undergraduate Studies

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Coordinator, Research, Publication and Consultancy

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Coordinator, Practical Training

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Coordinator, Quality Assurance

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D. W. Semkwiji, BA, MA (Dar)

Senior Systems Administrator

A. C. Moshi, BSc (Dar)

Department of Archaeology and Heritage Studies

Senior Lecturer and Acting Head

E. Mjema, BA, MA (Dar), PhD (Frankfurt)

Professor

F. A. Chami, BA (Dar), MA (Brown), PhD (Uppsala)

Associate Professors

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Senior Lecturers

E. T. Kessy, BA (Dar), MPhil. (Cambridge), PhD (Simon Fraser)

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E. C. Lyaya, BA, MA (Dar), PhD (London)

E. Mjema, BA, MA (Dar), PhD (Frankfurt)

** E. Ichumbaki, BA, MA, PhD (Dar)

***N. Lwoga, BA (Kampala), MA (Dar), MA (OUT), PhD (Dar)

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N. Rushohora, BA, MA (Dar), PhD (Pretoria)

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*S. Musa, BA, MA (Dar)
*M. Bundala, BA, MA (Dar)

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M. Chuhila, BAEd, MA (Dar), PhD (Warwick)

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*F. Edward, BA, MA (Dar)
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Professor

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M. Ndomondo, BA, MA (Dar), PhD (University of Texas at Austin)
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* G. Kamala, BA, MA (Dar)

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C. Kayoka, BA (Dar)

Principal Studio Instructor II

S. Ndibalema, BA, MA (Dar)

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L. Sarakikya, BA (USIU), MA (ECU)

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Principal Artist in Residence I

S. Kimbokota, BA, MA (Dar)

Artist in Residence II

M. Banyanka, BA (Arusha)

C. S. Maembe, BA (Dar)

Department of Literature

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*E. Kweka, BEd, MA (Dar)

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*D. Mdugala, BAEd (Dar)

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Head and Senior Lecturer

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*I. Kivinge, BA, MA, (Jordan)

V. W. Mujuni, BA (Rome)

* P. Tumainimungu, BA, MA, (Dar)

* E. Mgalula, BA. (Nairobi), MA (Dar)

*L. S. Kitula, BA, MA (Dar)

Centre for Communication Studies (CCS)

Lecturer and Director

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Lecturers

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J. A. Msuya, BA, MA (Dar)

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S. Edward, BA (Dar), MA (Dar)

Department of Foreign Languages and Linguistics

Lecturer and Head

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Associate Professor

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Senior Lecturers

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**A. M. Keya, BA (Dar), MA (Birmingham), PhD (Dar)

N. B. Mtavangu, BAEd, MA (Dar), PhD (INALCO)

Lecturers

A. A. Rubera, BA (Nur), MA, PhD (Paris)
E. N. Shartiely, BAEd, MA (Dar), PhD (Stellenbosch)
A. F. Mulinda, BAEd, MA (Dar), PhD (Geneva)
A. D. Mallya, BEd, MA (Dar), PhD (Stellenbosch)
G. E. Kimambo, BAEd, MA (Dar), PhD (Stellenbosch)
N. N. Asheli, BAEd, MA, PhD (Dar)
J. J. Taji, BAEd, MA, PhD (Dar)
F. R. Rutechura, BAEd, MA, PhD (Dar)
D. D. Makanjila, BAEd, MA (Dar), PhD (Stellenbosch)
G. G. Mwombeki, BAEd, MA (Dar), PhD (Stellenbosch)
K. L. Mathayo, BAEd, MA, PhD (Dar)
C. I. Kilangi, BAEd, MA, PhD (Dar)
F. K. Kristomus, BAEd, MA (Dar)
D. J. Nyakana, BAEd, MA, PhD (Dar)
B. P. Msagalla, BAEd, MA, PhD (Dar)

Assistant Lecturers

* G. M. Moses, BA, MA, PhD (Dar)
*O. M. Mwampalile, BAEd, MA (Dar)
*L.V. Mwinuka, BAEd (Iringa), MA (Dar)
*P. L. Lunyili, BAEd, MA (Dar)
N. A. Ngoda, BA (Dar), MA (Buea)
*E. M. Msambwa, BAEd, MA (Dar)
*I. P. Mwambapa, BAEd, MA (Dar)
*M. C. Ibrahim, BAEd, MA (Dar)
*G. F. Muganda, BAEd, MA (Dar)
*L. P. Ngwasi, BAEd, MA (Dar)

Tutorial Assistants

I. Joseph BAEd (Dar)
*S. Duwe BA (Dar)

* On study leave

** On Sabbatical

*** On Leave without pay/ Secondmment

COLLEGE OF INFORMATION AND COMMUNICATION TECHNOLOGIES (CoICT)

INTRODUCTION

The College of Information and Communication Technologies (CoICT) is a college specializing in information and communication technologies. The college comprises of the following units:

- i. Department of Computer Science and Engineering (CSE)
- ii. Department of Electronics and Telecommunications Engineering (ETE)
- iii. Centre for Virtual Learning (CVL)
- iv. The University of Dar es Salaam Information Technology Centre (UDITC)

PROGRAMMES OFFERED BY THE COLLEGE

| Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|---|-----------------------------|------------------|-----------|-----------------|---------------------|
| | | | | Tanzanian (TZS) | Non-Tanzanian (USD) |
| PGD in Electronics Engineering and Information Technology | Coursework and Report | Evening | 12 months | 2,600,000 | 4,020 |
| PGD in Telecommunications Engineering | Coursework and Report | Evening | 12 months | 3,184,000 | 4,020 |
| Master of Science in Computer Science | Coursework and Dissertation | Full-time | 24 months | 6,412,500 | 8,040 |
| Master of Science in Computer Science | Coursework and Dissertation | Evening | 24 months | 6,412,500 | 8,040 |
| Master of Science in Computer Science | Thesis | Full-time | 24 months | 4,200,000 | 6030 |
| Master of Science in Electronics Science and Communication | Coursework and Dissertation | Full-time | 24 months | 6,412,500 | 8,040 |
| Master of Science in Electronics Science and Communication | Thesis | Full-time | 24 months | 4,200,000 | 6030 |
| Master of Science in Health Informatics (Evening Programme) | Coursework and Dissertation | Evening | 24 months | 6,412,500 | 8,040 |
| Master of Science in Electronics Engineering and Information Technology | Coursework and Dissertation | Evening | 24 months | 6,412,500 | 8,040 |

| | | | | | |
|---|-----------------------------|-----------|-----------|--------------------|----------------|
| Master of Science in Telecommunications Engineering | Coursework and Dissertation | Evening | 24 months | 6,412,500 | 8,040 |
| Master of Science in Information Systems Management | Coursework and Dissertation | Evening | 24 months | 4,200,000 | 6,030 |
| Master of Science in Information Systems Management | Coursework and Dissertation | Full-time | 24 months | 4,200,000 | 6,030 |
| Master of Science in Information Systems Management | Thesis | Full-time | 24 months | 4,200,000 | 6,030 |
| Master of Science in Computer and IT Systems Engineering | Coursework and Dissertation | Evening | 24 months | 6,412,500 | 8,040 |
| Master of Science in Computer and IT Systems Engineering | Coursework and Dissertation | Full-time | 18 months | 6,412,500 | 8,040 |
| Master of Science in Data Science | Coursework and Dissertation | Full-time | 24 months | 6,412,500 | 6,030 |
| Doctor of Philosophy (PhD) in Computer Science | Thesis | Full-time | 36 months | 2,500,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Computer Science | Thesis | Part-time | 60 months | 2,500,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Electronics Science and Communication | Thesis | Full-time | 36 months | 2,500,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Electronics Science and Communication | Thesis | Part-time | 60 months | 2,500,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Telecommunications Engineering | Thesis | Full-time | 36 months | 2,500,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Telecommunications Engineering | Thesis | Part-time | 60 months | 2,500,000 per year | 4,020 per year |

| | | | | | |
|--|-----------------------------|-----------|-----------|--------------------|----------------|
| Doctor of Philosophy (PhD) in Electronics Engineering and Information Technology | Thesis | Full-time | 36 months | 2,500,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Electronics Engineering and Information Technology | Thesis | Part-time | 60 months | 2,500,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Computer and IT Systems Engineering | Coursework and Dissertation | Full-time | 48 months | 2,500,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Computer and IT Systems Engineering | Thesis | Full-time | 36 months | 2,500,000 per year | 4,020 per year |

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

The Department of Computer Science and Engineering endeavours to provide quality teaching, research and public services in its core disciplines of Computer Science, Computer Engineering, and Information Systems. Apart from providing academic and professional training excellences, the department also for many years has been engaging itself in providing research and consultancy services within its specialization areas of Information Systems and Innovation, Software Architecture and Engineering, Embedded and Intelligent Systems, Networks and Cyber Security. Over the past 15 years, the department has undertaken various projects in the public sector from large scale software systems development, rolling out of software, development of training material, and conducting training in large and complex contexts such as health, water, agriculture, and road safety sectors. As a result, the department received various awards from its contributions in solving societal problems/challenges by using ICT.

The Department offers various training programmes at different levels from Certificate, Diploma, degree, Master to PhD levels in Computer Science, Information Systems Management, Health Informatics, Business IT, Computer and Systems Engineering disciplines. Our degree programmes help students become outstanding professionals, prepared to impact all manner of the modern society through the application of cutting edge information technology. The theoretical and practical learning and teaching is provided using the available computing laboratories and infrastructure equipped with modern facilities connected to the reliable Internet connection at CoICT. The department also participates in the nation-wide internship programmes to enable the students to gain experience from the industry. The students participate in the practical training internships where they are attached to work for many ICT companies in the country. The department encourages internships as a great complement to formal class learning.

The Department of Computer Science and Engineering offers the following postgraduate programmes:

MASTER OF SCIENCE IN HEALTH INFORMATICS

1. Objective of the Programme

To address the gap, both knowledge and practical, between the areas of integrated health and modern information technologies in order to address local and national health needs through improved access to health information.

2. Specific Objectives

The programme is designed to provide students (being health professionals, scientists, educators, policy makers, and managers) with competence in health informatics. Specifically, the programme is designed to:

- i. improve the informatics capability of health institutions in order to advance research and health surveillance activities by training key researchers and institutional support staff in those institutions in the use and development of modern informatics technologies in the health sciences;
- ii. enable students acquire a range of informatics concepts and skills, and public health principles to improve the performance of health provision, health information system, and processes and mechanism of health planning and management;
- iii. enable students acquire knowledge, skills, attitudes and experiences necessary to develop and manage ICT based health information systems tailored to the needs of Tanzanian/African context; and
- iv. expose students to knowledge that would enable them to comprehensively plan, undertake, evaluate, and monitor health informatics research projects and provide technical services to health professionals and agencies for both private and public sectors concerned with management of information as a basis for health policy formulation.

3. Entry Requirements

To be eligible for admission into the program, the applicant should normally satisfy all general UDSM's minimum requirements with the following additional requirements:

(i) Direct Entry Requirement

This requires an undergraduate degree in Computer Science or a related field from a recognized institution with at least a lower second-class award (GPA of at least 2.7 out of 5). OR, an undergraduate degree in health or allied sciences from a recognized institution certified by TCU with at least a lower second-class award (GPA of at least 2.7 out of 5).

(ii) Equivalent Entry Requirement

A Postgraduate Diploma in a relevant and respective field (either computer science related or health sciences) from a recognized institution certified by TCU with at least an upper second-class award (GPA 3.5 out of 5). In addition, candidates must have principal level pass in Physics and Mathematics in ACSEE.

| | |
|--------------------|------------------------|
| Duration: | 24 months |
| Assessment: | Coursework: 50% |
| | Final examination: 50% |
| | Dissertation: Graded |

4. Programme Structure

At the end of the programme, each student is required to complete a minimum of 180 credits, 120 credits contributed from taught courses (Core and Elective) and 60 credits from dissertation work.

5. List of Courses

Core Courses (Total Credits 160)

| Course Code | Course Title | Credits |
|-------------|--|---------|
| IS 605 | Research Methodology | 12 |
| IS 622 | Enterprise systems and Modelling | 8 |
| IS 623 | Information Systems Development and Implementation | 12 |
| IS 660 | Monitoring and Evaluation for Health Programmes | 8 |
| IS 661 | Healthcare Information Systems | 8 |
| IS 662 | Principles and Methods of Epidemiology | 12 |
| IS 663 | Public Health Statistics | 12 |

Core Courses (Total Credits 160)

| Course Code | Course Title | Credits |
|--------------------|---|----------------|
| IS 666 | Integrated Health Information System Architecture | 12 |
| IS 668 | Essentials of Healthcare System, Management, and Planning | 8 |
| IS 669 | Concepts of Health Informatics | 8 |
| IS 699 | Master Dissertation | 60 |

Elective Courses (at least 20 credits)

| Course Code | Course Title | Credits |
|--------------------|--|----------------|
| IS 612 | Advanced Database Management Systems | 12 |
| IS 619 | Organization and Management of Information Systems | 12 |
| IS 620 | Information Security and Risk Management | 12 |
| IS 625 | IT Projects and Change Management | 12 |
| IS 627 | Advanced Object-Oriented Analysis and Design | 12 |
| IS 630 | e-Waste and Disposal Management | 8 |
| IS 631 | Advanced Data warehousing and Data Mining | 8 |
| IS 632 | Computer law and Intellectual Property Rights | 8 |
| IS 633 | Mobile Software Development | 12 |
| IS 641 | Human Computer Interaction | 12 |
| IS 643 | Database Management Systems | 12 |
| IS 646 | Strategic Information Systems | 12 |
| IS 649 | Principles of Geographic Information Systems | 12 |

MASTER OF SCIENCE IN COMPUTER SCIENCE

1. Objective of the Programme:

The main objective of the review is to provide a leading-edge, adaptable and relevant Computer Science education that produces highly sought professionals capable of thriving in the challenging environments demanded in today's highly evolving business world.

2. Specific Objectives

Programme specific objectives are to:

- i. promote students with high achievement in theoretical and practical problems within the field of Computer Science;
- ii. address the rapidly increasing education demands for graduates and professionals with advanced Computer Science education;
- iii. provide students with a technically oriented and scientific post-graduate education in core areas and exposure to cutting-edge research in Computer Science; and
- iv. provide students with the tools needed to compete in any market place.

3. Entry Requirements

To be eligible for admission into this programme, a student should satisfy the general University minimum requirements with the following additional requirements:

(i) Direct Entry Requirement

An undergraduate degree in Computer Science or a related field from a recognized institution with at least a lower second class degree (GPA of at least 2.7 out of 5).

(ii) Equivalent Entry Requirement

Advanced Diploma in relevant and respective field with at least lower second-class award, or undergraduate degree with at least a pass in related field PLUS a Postgraduate Diploma in a relevant and respective field from a recognized institution certified by TCU with at least an upper second class degree (GPA of at least 3.5 out of 5).

Duration: 24 months

Assessment:

Coursework: 50%

Final examination: 50%

Dissertation: Graded

4. Program Structure

At the end of the programme, each student is required to complete a minimum of 180 credits, 120 credits contributed from taught courses (Core and Elective) and 60 credits from dissertation work.

5. List of Courses

| Core Courses (Total Credits 156) | | |
|---|--------------------------------------|----------------|
| Course Code | Course Title | Credits |
| IS 605 | Research Methodology | 12.0 |
| IS 607 | Artificial Intelligence | 12.0 |
| IS 611 | Advanced Object Oriented Programming | 12.0 |
| IS 614 | Multimedia Communication and Systems | 12.0 |
| IS 615 | Parallel and Distributed Systems | 12.0 |
| IS 616 | Advanced Algorithms and Complexity | 12.0 |
| IS 618 | Advanced Systems Security | 12.0 |
| IS 625 | IT Projects and Change Management | 12.0 |
| IS 699 | Master Dissertation | 60.0 |

| Elective Courses (at least 24) | | |
|---------------------------------------|--|----------------|
| Course Code | Course Title | Credits |
| IS 612 | Advanced Database Management Systems | 12.0 |
| IS 613 | Data Communication and Networks | 12.0 |
| IS 617 | Mobile and Pervasive Computing | 12.0 |
| IS 619 | Organization and Management of Information Systems | 12.0 |
| IS 626 | ICT-based entrepreneurship | 8.0 |
| IS 630 | e-Waste and Disposal Management | 8.0 |
| IS 631 | Advanced Data Warehousing and Data Mining | 8.0 |
| IS 632 | Computer law and Intellectual Property protection | 8.0 |
| IS 641 | Advanced Human Computer Interaction | 12.0 |
| IS 642 | Advanced Computer Architectures | 12.0 |
| IS 644 | Advanced Computer Graphics | 12.0 |
| IS 646 | Strategic Information Systems | 12.0 |
| IS 648 | Natural Language Processing | 12.0 |

| <i>Elective Courses (at least 24)</i> | | |
|---------------------------------------|--|----------------|
| Course Code | Course Title | Credits |
| IS 649 | Principles of Geographic Information Systems | 12.0 |
| IS 654 | Cloud Computing | 12.0 |
| IS 645 | Advanced Software Engineering | 12.0 |

MASTER OF SCIENCE IN INFORMATION SYSTEM MANAGEMENT

1. Objective of the Programme

The programme has been developed to provide a technically oriented and scientific postgraduate education to individuals in the information system management discipline. The programme will offer students with tools required to compete in current market place.

2. Specific Objectives

Specific objectives of the MSc in ISM programme are to provide students with:

- i. Fundamental skills in analysis and design of various information systems using object- oriented methodologies;
- ii. Skills needed to make substantive contributions to the use of information systems in corporate decision making;
- iii. Ability to implement and manage secure information systems solutions;
- iv. skills necessary to manage IT development projects;
- v. A foundation of technologies needed in order to effectively use information systems in supporting organizations daily operations; and
- vi. Knowledge in application of computerized Information Systems, including Web technologies to run a modern technology-based business.

3. Entry Requirements

To be eligible for admission into this programme, the student should satisfy the general University minimum requirements with the following additional requirements:

(i) Direct Entry Requirement

An Undergraduate Degree in Information Systems Management or a related field from a recognized institution with at least a lower second-class award (GPA of at least 2.7 out of 5).

(ii) Equivalent Entry Requirement

An Advanced Diploma in relevant and respective field with at least lower second-class award, or undergraduate degree with at least a pass in related field plus a Postgraduate Diploma in a relevant and respective field from a recognized institution certified by TCU with at least an upper second class degree (GPA of at least 3.5 out of 5).

Duration: 24 months

Assessment:

Coursework: 50% Final examination: 50% Dissertation: Graded

4. Program Structure

At the end of the programme, each student is required to complete a minimum of 180 credits, 120 credits contributed from taught courses (Core and Elective) and 60 credits from dissertation work.

5. List of Courses

Core Courses (total credits 156)

| Course Code | Course Title | Credits |
|-------------|--|---------|
| IS 605 | Research methodology | 12 |
| IS 620 | Information Security and Risk Management | 12 |
| IS 621 | Strategic Management of IT | 8 |
| IS 622 | Enterprise Systems and Modelling | 8 |
| IS 623 | Information Systems Development and Implementation | 12 |
| IS 624 | Business Process Management | 8 |
| IS 625 | IT Projects and Change Management | 12 |
| IS 626 | ICT-based Entrepreneurship | 8 |
| IS 628 | Emerging Web Technologies | 8 |
| IS 631 | Advanced Data Warehousing and Data Mining | 8 |
| IS 699 | Master Dissertation | 60 |

Elective Courses (at least 24)

| Course Code | Course Title | Credits |
|-------------|---|---------|
| IS 611 | Advanced Object Oriented Programming | 12 |
| IS 627 | Advanced Object Oriented Analysis and Design | 12 |
| IS 629 | Information Technology Services Management | 8 |
| IS 630 | e-Waste and Disposal Management | 8 |
| IS 632 | Computer Law and Intellectual Property Rights | 8 |
| IS 633 | Mobile Software Development | 12 |
| IS 641 | Advanced Human Computer Interaction | 12 |
| IS 646 | Strategic Information Systems | 12 |

MASTER OF SCIENCE IN COMPUTER AND IT SYSTEMS ENGINEERING

1. Objective of the Programme

The course aims to provide graduates with a comprehensive coverage of the skills required by an engineer working in instrumentation, electronic systems, as well as hardware and software aspects of computer engineering.

The programme provides an excellent basis for engineers wishing to update their knowledge as well as for students who wish to go on to do research.

2. Specific Objectives

The program has been developed to fulfil the following specific objectives:

- Providing students with enhanced theoretical background and applied knowledge that they need to practice as Computer and IT Systems engineers who can lead in research and development.
- Enabling students acquire the ability to innovate, develop, direct, coordinate and technically manage projects in the fields of information technology and computer system engineering.
- Equipping students with skills to be able to start their own businesses through incubation process.
- Providing a gateway to doctoral studies in Computer and IT system engineering.

3. Entry Requirements

To be eligible for admission into this programme, the student should satisfy the general University minimum requirements with the following additional requirements:

(i) Direct Entry Requirement

UQF level 8 with background in ICT related undergraduate programmes or Electrical Engineering related programmes which include ICT courses with at least a second class degree with a minimum GPA of 2.7 out

of 5 from institutions recognized by TCU.

Candidates with pass degrees may also be considered for admission if:

- a) Their undergraduate performance in the proposed subject of study was a B grade or higher;
- b) They have satisfied UDSM regarding their academic potential through subsequent research experience and/or additional training

(ii) Equivalent Entry Requirement

A Postgraduate Diploma in ICT related programmes or Electrical Engineering related Programmes which includes ICT courses from an institution recognized by TCU or equivalent with at least an upper second class B+ award with a minimum GPA of 3.5 out of 5. Candidates with equivalent qualifications must also possess at least advanced secondary school certificates with a principal pass in both Physics and Mathematics.

Duration: 24 months

Assessment:

Coursework: 50%

Final examination: 50%

Dissertation: Graded

4. Program Structure

At the end of the programme each student is required to complete a minimum of 180 credits, 120 credits contributed from taught courses (Core and Elective) and 60 credits from dissertation work.

5. List of Courses

| <i>Core Courses (Total Credits 156)</i> | | |
|---|---|----------------|
| Course Code | Course Title | Credits |
| CS 602 | Microprocessors and Embedded Systems | 12 |
| CS 605 | Smart Grid | 12 |
| CS 606 | Research Methods in Science and Engineering | 12 |
| CS 608 | Optimization and Operations Research | 12 |
| CS 610 | Problem Driven Group Project | 12 |
| CS 621 | Distributed Algorithms | 12 |
| CS 631 | Mathematical Modeling and Methods | 12 |
| CS 699 | Dissertation | 60 |
| IS 607 | Artificial Intelligence | 12 |

Elective Courses (at least 24)

| Course Code | Course Title | Credits |
|--------------------|--|----------------|
| CS 601 | Systems Engineering | 12 |
| CS 603 | Power Systems Operation and Control | 12 |
| CS 604 | Power Systems Modelling | 12 |
| CS 607 | Hardware Description Language | 12 |
| CS 609 | Adaptive Control | 12 |
| CS 622 | Cyber Security for Smart Grid | 12 |
| CS 623 | Secure Software Design and Programming | 12 |
| CS 624 | New Developments in Smart Grid | 12 |
| ES 630 | Power Electronics | 12 |
| IS 611 | Advanced Object Oriented Programming | 12 |
| IS 614 | Multimedia Communication and Systems | 12 |

| | | |
|--------|---|----|
| IS 631 | Advanced Data Warehousing & Data Mining | 8 |
| IS 654 | Cloud Computing | 12 |
| TE 627 | Ad-hoc and Sensor Networks | 12 |
| TE 631 | Advanced Signal Processing | 12 |
| TE 633 | Wireless Communication | 12 |
| TE 648 | Powerline Communications | 12 |

MASTER OF SCIENCE IN DATA SCIENCE

1. Objective of the Programme

The main objective of designing this programme is to contribute to new emerging need for building country capacity for data science by producing highly sought after professionals capable of thriving in the challenging environments demanded in today's highly evolving data-driven business world.

2. Specific Objectives

- i. Producing highly skilled students in theoretical and practical problem solving in the field of data science.
- ii. Addressing the rapidly increasing demands for graduates and professionals with advanced data science skills.
- iii. Providing students with a technically oriented and scientific post-graduate education in core areas and exposure to cutting-edge research in data science.
- iv. Providing students with an opportunity to apply their knowledge through the design and completion of a required seminar applied data science project.

3. Entry Requirements

To be eligible for admission into this programme, the student should satisfy the general University minimum requirements as approved by the Senate with the following additional requirements:

(i) *Direct Entry Requirement*

An undergraduate degree in Computer Science, Computer Engineering, Statistics, Mathematics or a degree in related field from a recognized institution certified by TCU with at least a lower second-class award (GPA of at least 2.7 out of 5).

(ii) *Equivalent Entry Requirements*

- a) Advanced Diploma in relevant and respective field with at least lower a second-class award and a Postgraduate Diploma in relevant field from a recognized institution certified by TCU with at least an upper second class (GPA of at least 3.5 out of 5), OR
- b) An undergraduate degree with at least a pass in relevant/related field plus a Postgraduate Diploma in a relevant and respective field from a recognized institution certified by TCU with at least an upper second class GPA (of at least 3.5 out of 5).

Duration: 24 months

Assessment:

Coursework: 50%

Final examination: 50%

Dissertation: Graded

4. Programme Structure

At the end of the programme, each student is required to complete a minimum of 180 credits, 120 credits contributed from taught courses (Core and Elective) and 60 credits from dissertation work.

5. List of Courses

| <i>Core Courses (Total Credits 156)</i> | | |
|---|---|----------------|
| Course Code | Course Title | Credits |
| CS 606 | Research Methods in Science and Engineering | 12 |
| CS 610 | Problem Driven Group Project | 12 |
| IS 670 | Theories, Concepts and Trends in Data Science | 12 |
| IS 671 | Programming in Python | 12 |
| IS 672 | Statistical Methods for Data Science | 12 |
| IS 673 | Machine Learning Algorithms | 12 |
| IS 674 | Data Analysis, Visualization and Use | 12 |
| IS 675 | Big Data Analytics | 12 |
| IS 699 | Masters Dissertation | 60 |

Elective Courses (at least 24)

| Course Code | Course Title | Credits |
|--------------------|---|----------------|
| CS 631 | Mathematical Modeling and Methods | 12 |
| IS 607 | Artificial Intelligence | 12 |
| IS 626 | ICT-based entrepreneurship | 8 |
| IS 628 | Emerging Web Technologies | 8 |
| IS 631 | Advanced Data Warehousing and Data Mining | 8 |
| IS 643 | Database Management Systems | 12 |
| IS 654 | Cloud Computing | 12 |
| IS 676 | Geospatial Data Management | 12 |
| | Minimum Credits Required | 24 |

MASTER OF SCIENCE BY THESIS

1. Introduction

The Masters programme by thesis is offered through research followed by writing a thesis.

2. Entry Requirements

At least upper second degree with honours in a relevant field from the University of Dar es Salaam or any university recognized by TCU.

3. Duration

The registration period for the programme is 24 months for full-time students and up to 48 months for part-time students

4. Assessment

Dissertation is graded.

DOCTOR OF PHILOSOPHY (PhD)

1. Introduction

The PhD program in Computer Science is a doctoral program offered through research followed by writing a doctoral thesis.

2. Entry Requirements

Master degree in relevant fields from the University of Dar es Salaam or any university recognized by TCU.

3. Duration

The duration for this programme is three years for full-time candidates and five years for part-time candidates

4. Assessment

A PhD thesis is graded.

DOCTOR OF PHILOSOPHY (PhD) IN COMPUTER AND IT SYSTEMS ENGINEERING

(By Coursework and Dissertation)

1. Main Objective

The Computer and IT Systems Engineering is a multi-disciplinary programme that builds an in-depth knowledge of the foundation principles of engineering. The discipline integrates strengths of Computer Science, Computer Engineering, Information Systems, Electronics Engineering, Telecommunication Engineering and Electrical Power Engineering in preparing students in pursuing career in academia, research or highly technical entrepreneurial innovation. The programme provides advanced knowledge and skills in all aspects of computer hardware, software and their integration.

2. Specific Objectives

The programme has been developed to fulfil the following specific objectives:

- i. Offering an outstanding and unique interdisciplinary PhD degree program that is research-based and builds upon the educational and research expertise and related areas.
- ii. Imparting students with theoretical background and applied knowledge in the fields of Computer and IT Systems Engineering aimed at enhancing their exceptional ability to undertake advanced original research.
- iii. Enabling students acquire the ability to integrate information technology and computer system engineering using their broader knowledge in multidisciplinary contexts and be able to contribute to the advancement of scientific body of knowledge in engineering and related fields.
- iv. Equipping students with critical thinking and problem-solving skills through problem-oriented research thus enabling them spearhead multidisciplinary research encompassing computer and IT system engineering.
- v. Enabling students to attain the capacity to develop innovative new ideas, methods and techniques in computer and IT system engineering that can stimulate developments in the industry.

3. Entry Requirements

To be eligible for admission into this programme, the student should satisfy the general University minimum requirements. As the following additional requirements, an applicant should have a Masters' degree in either Computer and IT Systems Engineering or any ICT related programmes or in Electrical Engineering related programmes which include IT courses from institutions recognized by TCU.

4. Duration of the Programme

The duration of the programme is 48 months.

5. Assessment

Coursework: 50%
Final examination: 50%
Dissertation: Graded

6. Programme Structure

At the end of the programme, each student is required to complete a minimum of 720 credits, 240 credits contributed from taught courses (Core and Elective) and 480 credits from dissertation work.

7. List of Courses

Core Courses (Total Credits 648)

| Course Code | Course Title | Credits |
|-------------|--|---------|
| CS 703 | Communications and Control in Smart Grid | 24 |
| CS 704 | Intelligent Control Systems | 24 |
| CS 705 | Doctoral Seminars on Current Topics | 24 |
| CS 706 | Problem Driven Group Project | 24 |
| CS 722 | Big Data Analytics/Data Processing | 24 |
| CS 723 | Data Acquisition and Real-Time Systems | 24 |

| | | |
|--------|--------------------------------------|-----|
| CS 799 | Dissertation | 480 |
| ES 701 | Sensors and Microsystems Electronics | 24 |

Elective Courses (at least 72)

| Course Code | Course Title | Credits |
|-------------|---|---------|
| CS 701 | Modelling and Simulation | 24 |
| CS 702 | Sensor Data Fusion | 24 |
| CS 707 | Theory of Computation | 24 |
| CS 708 | Networks and Distributed Systems Security | 24 |
| CS 709 | Advanced Topics in CITSE | 24 |
| CS 721 | Distributed Computing Theory and Design | 24 |
| CS 724 | Advances in Smart Grid Technologies and Application | 24 |
| TE 702 | Communication Theory | 24 |

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATIONS ENGINEERING

The Department of Electronics and Telecommunications Engineering offers the following postgraduate programmes:

POSTGRADUATE DIPLOMA IN ELECTRONICS AND INFORMATION TECHNOLOGY

1. Entry Requirements

At least a Bachelors Degree, Advanced Diploma or its equivalent from a recognized institution of higher learning in relevant fields of specialization. Candidates with equivalent qualifications must also possess at least secondary school certificates with a credit pass.

2. Duration: The course takes 12 months.

Assessment:

Coursework: 50%

Final examination: 50%

Project: 40 credits

3. Programme Structure

The Postgraduate Diploma Programme in Electronics and Information Technology is an evening mode programme that consists of a total of 120 credits. Candidates must complete 84 credits of the core course modules (inclusive of 40 credits of project) and any 36 credits to be chosen from a list of elective courses.

4. List of Courses

Core Courses (84 Credits)

| Course Code | Course Title | Credits |
|-------------|-----------------------------------|---------|
| CS 321 | Control Systems Engineering I | 12 |
| CS 353 | Micro Computer Systems I | 8 |
| CS 599 | Project | 40 |
| TE 312 | Digital Telecommunication | 12 |
| TE 342 | Digital Electronics for Engineers | 12 |

Elective Courses (at least 36 Credits)

| Course Code | Course Title | Credits |
|-------------|---|---------|
| CS 652 | Introduction to Computer Communication Theory | 12 |
| CS 660 | Introduction to Computer and Software Engineering | 12 |
| CS 680 | Computer Programming | 12 |
| DP 681 | Network Analysis | 8 |
| DP 682 | Network Synthesis | 8 |
| TE 651 | Introduction to Telecommunications Engineering | 12 |

MASTER OF SCIENCE IN ELECTRONICS ENGINEERING AND INFORMATION TECHNOLOGY

1. Entry Requirements

A degree with honours in a relevant field from the University of Dar es Salaam or any university recognized by TCU.

2. Duration

The registration period for the programme is 24 months for full-time students and up to 48 months for part-time students.

3. Assessment

| | |
|--------------------|------------|
| Coursework: | 50% |
| Final examination: | 50% |
| Dissertation: | 60 credits |

4. Program Structure

The Master of Science programme in Electronics Engineering and Information Technology is an evening program which involves the completion of a total of at least 180 credits, 120 of which are core (including 60 units for dissertation) and 60 are from a list of elective courses. Full-time students must complete their coursework within the first 2 semesters of enrolment, while part-time candidates must complete their coursework within the first 36 months of enrolment.

5. List of Courses

Core Courses (120 Credits)

| Course Code | Course Title | Credits |
|-------------|---|---------|
| EM602 | Numerical Analysis | 12 |
| CS 652 | Introduction to Computer Communication Theory | 12 |
| CS 680 | Computer Programming | 12 |
| CS 684 | Microcomputers and Microprocessors | 12 |
| CS 699 | Dissertation | 60 |
| TE 644 | Digital Communications | 12 |

Elective Courses (at least 60 Credits)

| Course Code | Course Title | Credits |
|-------------|--|---------|
| CS 660 | Introduction of Computers and Software Engineering | 12 |
| CS 661 | Modern Control Theory | 12 |
| CS 662 | Control Systems Analysis and Synthesis | 12 |
| CS 663 | Instrumentation and Measurement I | 12 |
| CS 664 | Instrumentation and Measurement II | 12 |
| CS 665 | Computer-Based Techniques for Meas. and Control | 12 |
| EM 601 | Mathematical Analysis | 12 |
| MG 632 | Entrepreneurship Development | 12 |
| TE 651 | Introduction to Telecommunications Engineering | 12 |
| TE 653 | Integrated Electronics | 12 |
| TE 654 | Optoelectronics | 12 |
| TE 655 | Analogue Filters | 12 |
| TE 656 | Digital Filters | 12 |
| TE 657 | Digital Electronics | 12 |
| TE 658 | Analogue Electronics | 12 |
| TE 659 | Telecommunications Switching Principles | 12 |

MASTER OF SCIENCE IN TELECOMMUNICATIONS ENGINEERING

1. Entry Requirements

A degree with honours in a relevant field from the University of Dar es Salaam or an equivalent degree from another recognized university

2. Duration

The registration period for the programme is 24 months for full-time students and up to 48 months for part-time students.

3. Assessment

Coursework: 50%
Final examination: 50%
Dissertation: 60 Credits (Graded)

4. Programme Structure

The Master of Science programme in Telecommunications Engineering is an evening programme which involves the completion of a total of at least 180 credits, 124 of which are core (including 60 credits for dissertation) and 56 are from a list of elective courses. Full-time students must complete their coursework within the first 2 semesters of enrolment, while part-time candidates must complete their coursework within the first 36 months of enrolment.

5. List of Courses

Core Courses (124 Credits)

| Course Code | Course Title | Credits |
|-------------|----------------------|---------|
| CS 680 | Computer Programming | 12 |
| DP 681 | Network Analysis | 8 |
| DP 682 | Network Synthesis | 8 |
| EM 602 | Numerical Analysis | 12 |
| TE 640 | Signal Analysis | 12 |
| TE 641 | Communication Theory | 12 |
| TE 699 | Dissertation | 60 |

Elective Courses (at least 56 Credits)

| Course Code | Course Title | Credits |
|-------------|--|---------|
| CS 650 | Communications Electronics | 12 |
| EM 601 | Mathematical Analysis | 12 |
| MG 632 | Entrepreneurship Development | 12 |
| TE 642 | Antenna Analysis | 12 |
| TE 643 | RF and Microwave Measurement Techniques | 12 |
| TE 644 | Digital Communications | 12 |
| TE 645 | Optical Communications | 12 |
| TE 646 | Microwave Circuits | 12 |
| TE 647 | Satellite Communications | 12 |
| TE 648 | Sound Broadcast Systems | 12 |
| TE 649 | Television Systems | 12 |
| TE 651 | Introduction to Telecommunications Engineering | 12 |
| TE 659 | Telecommunications Switching Principles | 12 |

MASTER DEGREE PROGRAMMES BY THESIS

1. Introduction

The Department offers 3 Masters programmes by thesis in the Electronics and Telecommunications Engineering fields. The programmes which are offered through research followed by writing a masters thesis are:

- i. Master of Science in Electronics Engineering and Information Technology
- ii. Master of Science in Electronics Science and Communication
- iii. Master of Science in Telecommunications Engineering

2. Entry Requirements

At least a upper second degree with honours in a relevant field from the University of Dar es Salaam or any university recognized by TCU.

3. Duration of the Programme

The registration period for the programme is 24 months for full-time students and up to 48 months for Part-time students.

4. Assessment

The thesis is assessed in terms of pass or fail.

MASTER OF SCIENCE IN COMMUNICATION AND NETWORKING ENGINEERING

1. Entry Requirements

A degree with honours in a relevant field from the University of Dar es Salaam or any university recognized by TCU.

2. Duration

The registration period for the programmes is 24 months for full-time students and up to 48 months for part-time students.

3. Assessment

Coursework: 50%
Final examination: 50%
Dissertation: Graded

4. Program Structure

The Master of Science programme in Communication and Networking Engineering is an evening programme which involves the completion of a total of at least 180 credits, 120 of which are core (including 60 units for dissertation) and 60 are from a list of elective courses. Full-time students must complete their coursework within the first 2 semesters of enrolment, while part-time candidates must complete their coursework within the first 36 months of enrolment.

5. List of Courses

Core Courses (132 Credits)

| Course Code | Course Title | Credits |
|-------------|-------------------------------|---------|
| IS 605 | Research Methodologies | 12 |
| TE 623 | Statistical Signal Processing | 12 |
| TE 625 | Radio Frequency Planning | 12 |
| TE 647 | Satellite Communications | 12 |
| TE 633 | Wireless Communications | 12 |
| TE 636 | Coding Theory | 12 |
| TE 699 | MSc Dissertation | 60 |

Core Courses for Network Engineering Track (24 Credits)

| Course Code | Course Title | Credits |
|-------------|---------------------------------|---------|
| TE 621 | Network Programming in C | 12 |
| IS 613 | Data Communication and Networks | 12 |

Core Courses for Communications Engineering Track (24 Credits)

| Course Code | Course Title | Credits |
|-------------|------------------------------------|---------|
| TE 629 | Modelling of Communication Systems | 12 |
| TE 637 | Microwave Engineering | 12 |

Elective Courses (at least 60 Credits)

| Course Code | Course Title | Credits |
|-------------|---------------------------------------|---------|
| IS 614 | Multimedia Communication and System | 12 |
| IS 618 | Advanced Systems Security | 12 |
| TE 645 | Optical Networks | 12 |
| TE 626 | Tele-traffic Engineering | 12 |
| TE 627 | Ad-hoc and Sensor Networks | 12 |
| TE 628 | Cognitive Radio | 12 |
| TE 622 | Network Protocols Analysis and Design | 12 |
| TE 624 | Network Performance Evaluation | 12 |
| TE 635 | Antenna Analysis and Design | 12 |
| TE 631 | Advanced Signal Processing | 12 |
| TE 638 | Blind Signal Processing | 12 |
| TE 627 | Image Processing | 12 |

DOCTOR OF PHILOSOPHY (PhD)

1. Introduction

The PhD programme in Electronics and Telecommunications Engineering related fields are doctoral program offered through research followed by writing a doctoral thesis.

2. Entry Requirements

A Master degree in relevant fields from the University of Dar es Salaam or any university recognized by TCU.

3. Duration

The duration for the programme is three years for full-time candidates and five years for part-time candidates

4. Assessment

PhD by Thesis is assessed in terms of pass or fail.

Kindly note that PhD is graded by marks, see page 77 of the PG regulations Form UDSM. PG.F9.

CoICT STAFF LIST

Office of the Principal

Senior Lecturer and College Principal

M. M. Kissaka, BSc (Dar), PhD (Manchester)

Lecturer and Deputy Principal

E. A. Kalinga, BEng (Mysore), MSc, PhD (Dar)

Procurement/Supplies Officer

B. T. M. Mbughi, FTC (DIT), ADMA (IDM), CPSP (T)

Administrative Staff

J. M. Buhenyenge, *Senior Administrative Officer*

O. J. Massawe, *Accounts Officer II*

S. M. Mwaliki, *Assistant Accountant I*

C. C. Malembela, *Personal Secretary III*

M. M. Mhando, *Personal secretary II*

T. M. Philip, *Principal Driver*

S. A. Binda, *Senior Driver II*

A. M. Mambele, *Senior Records Management Assistant I*

S. R. Bandula, *Principal Office Assistant*

Department of Computer Science and Engineering

Lecturer and Acting Head

M. E. Mbise, BEng (Hons), PhD (Essex)

Associate Professors

J. S. Mtebe, BSc (Dar), MSc. (Queensland), PhD (Tampere)

Senior Lecturers

B. B. R. Bagile, BScg (Dar), MSc, PhD (Bradford)

H. C. Kimaro, BSc (Dar), MSc (Delft), PhD (Oslo)

Lecturers

M. E. Mbise, BSc (Hons), PhD (Essex)

G. N. Justo, BSc (Dar), MSc (Zimbabwe), PhD (London)

J. H. Lungo, BSc (Dar), MSc, PhD (Oslo)

E. A. Kalinga, BSc (Mysore), MSc, PhD (Dar)

F. S. Ikuja BSc, MSc, PhD (Dar)

J. T. Mbelwa, BSc, MSc (Dar), PhD (Beijing)

R. B. Kateule, BSc (Dar), MSc (India), PhD (Germany)

A. F. Ally, BSc, MSc (Dar), PhD (Shanghai)

J. S. Chambua, BSc, MSc (Dar), PhD (Beijing)

J. C. Mushi, BSc (Dar), MSc (Wuhan), PhD (Dar)

W. B. Nyamwihula, BSc, MSc, PhD (Dar)

H. H. Maziku, BSc (Dar), MSc, PhD (USA)

S. H. Maro, BSc (Dar), MSc, PhD (Sweden)

M. J. Mndeme, BSc, MSc (Dar), PhD (Leeds)
L. B. Peter, BSc (Dar), MSc (India), PhD (Manchester)
M. H. Mahundi, BSc, MSc, PhD (Dar)
K. F. Mwakisole, BSc, MSc, PhD (Dar)
W. F. Senyoni, BSc, MSc (Dar), PhD (Oslo)

Assistant Lecturers

H. L. Kalisti, BSc (Dar), MSc (Sweden)
B. N. Mussa, BSc (Dar), MSc (NM-AIST)
H. O. Muhomi, BSc, MSc (Dar)
M. M. Sogorya, BSc (Dar), MSc (Beijing)
J. Damas, BSc, MSc (Dar)
H. J. Machiwa, BSc (Dar), MSc (UK)
M.M. Luambano, BSc, MSc (Dar)
L. E. Mkonyi, Bsc (Dar), MSc (NMIST)
*Y. Andengelile, BSc, MSc (Dar)
*D. S. Rwegasira, BSc (Dar), MSc (Finland)
*A. W. Kondoro, BSc (Dar), MSc (Sweden)
*D. C. Mnyanghwalo, BSc, MSc (Dar)
*B. M. Mbwilo, BSc, MSc (Dar)
*A. J. Kigombola, BSc, MSc (Dar)
*H. L. Mwasita, BSc, MSc (Dar)
*Z. A. Kaijage, BSc, MSc (Dar)
*M. A. Tunga, BSc, MSc (Dar)
*H. S. Lema, BSc, MSc (Dar)
*F. Kawasa, BSc (Dar), MSc (Beijing)
*A. R. Mohamed, MSc (Wroclaw Tech.), Licentiate CEngS (Sweden)
*A. R. Kivaisi, BSc (Dar), MSc (SA)
*A. T. Bitebo, BSc (Dar), MSc (Sweden)
*T. A. Kiobyia, BSc, MSc (China)

Tutorial Assistants

M. Masembo BSc (Dar)
*B. H. Lema BSc (Dar)

Technical Staff

S. K. Lujara, BSc (Mysore), MSc, PhD (Dar)
C. N. Tarimo, BSc (Dar), Dip (SA), PGD, PhD (Sweden)
Z. L. Musabalala, BSc (DIT), MSc (Dar)
M. G. Kishiwa, Dip (Dar), BSc (Mzumbe)

Administrative Staff

M. B. Mutazamba, *Office Management Secretary III*, Dip, MDEA I and II (TPSC)

Department of Electronics and Telecommunications Engineering

Lecturer and Head

L. V. Massawe, BSc (Dar), MSc (Ryukyu), PhD (CUT, SA)

Senior Lecturers

M. M. Kissaka, BSc (Dar), PhD (Manchester)
A. N. J. Mwambela, BSc (Dar), MSc (Durham), PhD (Dar)
A. T. Abdalla, BSc, MSc (Dar) PhD (KFUPM, KSA)
B. M. Maiseli, BSc, MSc (Dar), PhD (China)

Lecturers

L. V. Massawe, BSc (Dar), MSc (Ryukyu), PhD (CUT, SA)
C. John, BSc (Dar), MSc (Oita), PhD (Essex)
K. S. Ibwe, BSc (Dar), MSc (Chalmers), PhD (Dar)
H. U. Iddi, BSc, MSc (Dar), PhD (Iskandar Puteri)
S. Naiman, BSc, MSc, PhD (Dar)
J. P. Nombo, BSc, MSc (Dar) PhD (Nelson Mandela)
I. Bulugu, BSc (Dar), MSc (Tianjin), PhD (Hefei)
K. Mkocho, BSc, MSc, PhD (Dar)
G. G. Mruma, BSc, MSc (Dar), PhD (S. Korea)
* M. K. Mohamed, BSc (Dar), MSc (Trondheim), PhD

Assistant Lecturers

*I. Mosses, BSc, MSc (Dar)
*A. Misso, BSc, MSc (Dar)
*H. Msuya, BSc, MSc (Dar)
*J. K. Stephen, BSc, MSc (Dar)
*E. Shayo, BSc, MSc (Dar)
*G. Chugulu, BSc, MSc (Dar)
*H. Mbembati, BSc, MSc (Dar)
*S. J. Kawambwa, BSc, MSc (Dar)
F. Mkemwa, BSc, MSc (Dar)
*N. Ally, BSc, MSc (Dar)
* C. Mwase, BSc (Bath), MSc (Bristol)
J.M. Silayo BSc, MSc (Dodoma)

Tutorial Assistants

*R. Mwang'amba, BSc (Dar)
*J. Mng'ong'o, BSc (Dar)
G. Kapyela, BSc (Dar)
*A. Matem, BSc (Dar)
S. E. Kimambo, BSc (DIT)

Senior Laboratory Engineer I

C. K. Raphael, AdvDip, PGEM, MEM (Dar)
T. Sapula, AdvDip, MSc (Dar)

Laboratory Technician

A. Kamoye, Dip (Dar)

Administrative Staff

C.M. Msocha, Dip (TPSC), *Secretary I*

A. Hussein, *Senior Office Attendant III*

Centre for Virtual Learning

Associate Professor and Director

J. S. Mtebe, BSc (Dar), MSc (Queensland), PhD (Tampere)

Lecturer

J. Frank, BSc, MSc, PhD (Dar)

Technical Staff

O. D. Mashauri, BSc (Melbourne)

S. M. Mgaiwa, BSc, MSc (Kiev), MEd-ID (Curtin)

A. A. Kiluwasha, BSc (Dar), MSc (Kuala Lumpur)

H. Haule, BSc (Dar)

B. Saganda, Dip (Bagamoyo), BA, PGD, MA (Dar)

G. Nkwera, AdvDip (Mwanza), PGD (Dar), MA (Eastern Cape)

M. F. Makungu, FTC (DIT), AdvDip, PGD EIT (Dar)

Administrative Staff

A. Likuki, *Secretary II*

*On Study Leave

**On Sabbatical Leave

*** On Leave of Absence/Secondment

COLLEGE OF NATURAL AND APPLIED SCIENCES (CoNAS)

INTRODUCTION

The College of Natural and Applied Sciences (CoNAS) is one among the campus colleges of the University of Dar es Salaam (UDSM) established following the implementation of the new University's organisational structure in 2009. CoNAS evolved from the former Faculty of Science (FoS) that was established in 1965.

CoNAS comprises seven teaching departments, namely:

- i. Botany
- ii. Chemistry
- iii. Physics
- iv. Mathematics
- v. Molecular Biology & Biotechnology
- vi. Zoology & Wildlife Conservation

In addition, the College has two service units, namely the Central Science Workshop (CSW) and Natural Sciences Consultancy Bureau (NSCoB).

PROGRAMMES OFFERED BY THE COLLEGE

The postgraduate programmes offered by the College are under the following categories:

- i. Postgraduate Diploma
- ii. Master of Science by Coursework and Dissertation
- iii. Master of Science by Thesis
- iv. Doctor of Philosophy (PhD) by Coursework and Dissertation
- v. Doctor of Philosophy (PhD) by Thesis

The following postgraduate programmes are offered by CoNAS (Tuition fees for each programme are shown in the last two columns):

| Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|--|-----------------------------|------------------|-----------|-----------------|---------------------|
| | | | | Tanzanian (TZS) | Non Tanzanian (USD) |
| Postgraduate Diploma in Meteorology (PGD (Met.)) | Coursework and Report | Evening | 12 months | 2,125,000 | 4,020 |
| Master of Science in Chemistry | Coursework and Dissertation | Full-time | 24 months | 4,250,000 | 8,040 |
| Master of Science in Biochemistry | Coursework and Dissertation | Full-time | 24 months | 4,250,000 | 8,040 |
| Master of Science in Applied Botany | Coursework and Dissertation | Full-time | 24 months | 4,250,000 | 8,040 |
| Master of Science in Physics | Coursework and Dissertation | Full-time | 24 months | 4,250,000 | 8,040 |
| Master of Science with Education | Coursework and Dissertation | Full-time | 24 months | 4,250,000 | 8,040 |
| Master of Science in Mathematical Modelling | Coursework and Dissertation | Full-time | 24 months | 4,250,000 | 8,040 |

| Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|---|-----------------------------|---------------------|----------------------|--------------------|---------------------|
| | | | | Tanzanian (TZS) | Non Tanzanian (USD) |
| Master of Science in Mathematics | Coursework and Dissertation | Full-time | 24 months | 4,250,000 | 8,040 |
| Master of Science in Biodiversity Conservation | Coursework and Dissertation | Full-time | 24 months | 4,250,000 | 8,040 |
| Master of Science in Applied Zoology | Coursework and Dissertation | Full-time | 24 months | 4,250,000 | 8,040 |
| Master of Science in Applied Zoology | Thesis | Full-time | 24 months | 4,250,000 | 8,040 |
| Master of Science in Wildlife Ecology | Thesis | Full-time | 24 months | 4,250,000 | 8,040 |
| Master of Science in Biotechnology | Thesis | Full-time | 24 months | 4,250,000 | 8,040 |
| Master of Science in Microbiology | Thesis | Full-time | 24 months | 4,250,000 | 8,040 |
| Master of Science in Molecular Biology | Thesis | Full-time | 24 months | 4,250,000 | 8,040 |
| Master of Science in Molecular Biology and Biotechnology | Thesis | Full-time | 24 months | 4,250,000 | 8,040 |
| Master of Science in Chemistry | Thesis | Full-time | 24 months | 4,250,000 | 8,040 |
| Master of Science in Physics | Thesis | Full-time | 24 months | 4,250,000 | 8,040 |
| Doctor of Philosophy (PhD) in Environmental Sciences | Coursework and Dissertation | Full-time | 48 months | 2,500,000 per year | 8,040 |
| Doctor of Philosophy (PhD) in Mathematics | Coursework and Dissertation | Full-time | 48 months | 2,500,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Molecular Biosciences | Coursework and Dissertation | Full-time | 48 months | 2,500,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Biotechnology | Thesis | Full-time/Part-time | 36 months/60 months | 2,500,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Microbiology | Thesis | Full-time/Part-time | 36 months/60 months | 2,500,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Molecular Biology | Thesis | Full-time/Part-time | 36 months, 60 months | 2,500,000 Per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Molecular Biology and Biotechnology | Thesis | Full-time/Part-time | 36 months/60 months | 2,500,000 Per year | 4,020 per year |

| Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|--|------------------|---------------------|---------------------|--------------------|---------------------|
| | | | | Tanzanian (TZS) | Non Tanzanian (USD) |
| Doctor of Philosophy (PhD) in Mathematics | Thesis | Full-time/Part-time | 36 months/60 months | 2,500,000 Per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Botany | Thesis | Full-time/Part-time | 36 months/60 months | 2,500,000 Per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Chemistry | Thesis | Full-time/Part-time | 36 months/60 months | 2,500,000 Per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Physics | Thesis | Full-time/Part-time | 36 months/60 months | 2,500,000 Per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Applied Zoology (Thesis) | Thesis | Full-time/Part-time | 36 months/60 months | 2,500,000 Per year | 4,020 per year |

NB: Other fees are as shown in section 1.1: UDSM fee structure. In addition to tuition fee, postgraduate students are required to have a research fund which currently is at least TZS 10,000,000 and TZS 20,000,000 for Master and PhD students respectively. In case of lab intensive research done at CoNAS, 10% of the research fund shall be deposited to the corresponding account of the offering department to cater for major and centrally used consumables.

POSTGRADUATE DIPLOMA PROGRAMMES

POSTGRADUATE DIPLOMA IN METEOROLOGY

1. Introduction

This is a one-year programme offered by the Department of Physics with the aim of impacting graduates with advanced knowledge and skills in meteorology and its applications in solving practical problems for the development of the nation and the wider world.

2. Objectives of the Programme

- Enrolling science and engineering graduates into the field of meteorology to meet the national demand for qualified meteorologists.
- Advancing meteorology in the country by producing postgraduates with proficiency in theoretical and practical aspects of the field.
- Producing postgraduates with the potential to pursue Master degree programme (MSc) in areas relevant to the economy of meteorology.

3. Entry Requirements

An Advanced diploma (or equivalent) or Bachelor degree in Science (with emphasis in Physics, Mathematics, Geography, Engineering or Environmental Sciences) from a recognized institution of higher learning. Candidates with equivalent qualifications must also possess at least secondary school certificates with a three credit pass.

4. Programme Structure

This is a part-time (evening) programme running for a period of 1 year (2 semesters). The programme consists of coursework and a project report. During semester 1, a student is required to take four core courses and at least one elective course. For semester 2, a student is required to take 5 core courses including a project. A student can also take one more course in each semester. To graduate from the programme, a student needs at least 120 credits.

5. List of courses

Core Courses

| Year | Course Code and Title | Credits | Total Credits | Semester |
|--------------|---|------------|---------------|----------|
| 1 | MO 502: Remote Sensing | 12 | 48 | I |
| | MO 503: Introduction to Tropical Meteorology | 12 | | |
| | MO 505: Dynamic Meteorology | 12 | | |
| | PH519: Atmospheric Physics | 12 | | |
| | MO506: Fundamentals of Numerical Weather Prediction | 12 | 60 | II |
| | MO 501: Weather Forecasting | 12 | | |
| | MO 509: Synoptic Meteorology | 12 | | |
| | MO 510: Global Climate Change | 12 | | |
| | MO 514: Project | 12 | | |
| TOTAL | | 108 | 108 | |

Elective courses

| Year | Course Code and Title | Credits | Total Credits | Semester |
|--------------|--|-----------|---------------|----------|
| 1 | MO 513: Boundary layer and Air pollution | 12 | 24 | I |
| | MO 504: Introduction to Marine Meteorology | 12 | | |
| | MO 511: Aviation Meteorology | 12 | 24 | II |
| | MO 512: Agrometeorology | 12 | | |
| TOTAL | | 48 | 48 | |

6. Programme Evaluation and Examinations

Assessment for the course with final examination will constitute a combination of continuous assessment (40%) and final examination (60%). The assessment for project (MO 514) will be 20% proposal writing, 20% oral presentations, and 60% final project report.

MASTER PROGRAMMES

All departments in the college offer Master degrees by thesis. In addition, the following master programmes are offered by coursework and dissertation;

MASTER OF SCIENCE BY COURSEWORK AND DISSERTATION

MASTER OF SCIENCE IN BIODIVERSITY AND CONSERVATION

1. Introduction

The programme targets professionals who are working in biological related fields and intends to equip them with the biodiversity knowledge and conservation tools to work more professionally and confidently. This programme is offered by the Department of Zoology and Wildlife Conservation.

2. Objectives of the Programme

- Giving an account of both the major and special biotic groups on earth and in East Africa and indicate their inter-relatedness.
- Giving an account of the major aquatic and terrestrial realms, biomes, biodiversity hotspots, landscapes, ecological zones and habitats globally and in East Africa and indicate their specific roles and inter-relatedness.
- Explaining the conventions, acts, policies and regulations that relate to protection and utilization of biota and habitats.
- Confidently discussing natural and anthropogenic processes that influence the health status of ecosystems.

- v. Recognising and/or predicting deleterious processes and suggesting relevant and workable mitigation measures and monitoring protocols.
- vi. Using various methods and assessment tools in realizing biodiversity conservation objectives.

3. Entry Requirements

Admission into the programme will be in accordance with the University of Dar es Salaam regulations relating to the postgraduate studies. Applying students will be required to have at least a first degree in Biology or related disciplines such as Forestry, Veterinary Science, Agriculture and Wildlife. Students with the first degree in areas such as Geography and Environmental Engineering will need to have taken and passed Biology in their high school training. Experience and literacy in Information Technology will be considered an added advantage. Some students may be required to undertake prerequisite courses as indicated in the respective course outlines. This will be determined upon inspection of the candidates' previous training and experience.

4. Programme Structure

This is a taught programme comprising coursework and dissertation. It shall run for twenty-four months (2 years) for full-time students. A main feature of this programme will be its emphasis on practical and analytical skills. It will be strongly student centred and students will undertake laboratory and field practical exercises and discussion seminars. There will be oral tests aimed at detecting ability of candidates to communicate his/her understanding of the topics. The coursework phase will run over a period of two semesters (each 15 weeks) with final examinations at the end of each semester. The second year shall be devoted to research and writing of the dissertation. To graduate, a student must complete a minimum of 180 credits consisting of all prescribed core and elective courses.

5. List of Courses

Year 1

Core Courses

| Course Code | Course Title | Credits | Semester |
|-------------|---|---------|----------|
| BC 600 | Fundamentals of Biodiversity Conservation | 8 | I |
| BC 610 | Invertebrate Diversity and Conservation | 12 | |
| BC 602 | Conservation of Plant Diversity | 12 | |
| BC 603 | Microbial Diversity and Conservation | 12 | |
| BC 604 | Aquatic Biodiversity and Conservation | 12 | |
| BC 607 | Diversity and Conservation of African Biome's | 8 | II |
| BC 608 | Vertebrate Diversity and Conservation | 12 | |
| BC 610 | Biodiversity Research Methods and Monitoring | 12 | |
| BC 611 | Fire and Biodiversity | 8 | |

Elective Courses:

| Course Code | Course Title | Credits | Semester |
|-------------|---|---------|----------|
| BC 605 | Biodiversity of Inhabited Areas | 8 | I |
| BC 606 | Ethno-biology and Conservation | 8 | |
| *DE 628 | Population Resources and Environment | 12 | |
| BC 612 | Legislation and Policies in Biodiversity Conservation | 8 | II |
| BC 613 | Emerging Issues in Biodiversity Conservation | 8 | |
| BC 614 | Bioremediation | 8 | |
| BC 617 | Restoration Ecology | 8 | |

| Course Code | Course Title | Credits | Semester |
|-------------|----------------------------------|---------|----------|
| *IEM 606 | Geographic Information Systems | 4 | |
| *IEM 633 | Environmental Analytical Methods | 4 | |

Year 2

| Course Code | Course Title | Credits | Semester |
|-------------|--------------|---------|----------|
| BC 699 | Dissertation | 60 | I & II |

6. Programme Evaluation and Examinations

Final examination shall be held immediately upon completing a course. The weighing of this final examination in determining the grade for the course shall be University Examination carrying 50% and Continuous Assessment of the coursework 50%. Candidates will be required to have passed all core courses and attained an overall GPA of at least 3.0 before they can be allowed to proceed to the second year of study. The assessment of the research part consists of examination of the dissertation by an external and an internal examiner. The dissertation is graded; and to pass, a student needs to have grade B and above.

MASTER OF SCIENCE IN APPLIED ZOOLOGY

1. Introduction

This is a two-year programme offered by the Department of Zoology and Wildlife Conservation has the goal of developing scientists who will contribute to the improvement of crop and animal productivity. Parasites are leading causes of global morbidity and mortality, affecting the health of millions worldwide and exerting considerable constraint on development particularly here in Tanzania and Africa in general. The knowledge on the basic biological processes of insects and parasites is fundamental to understanding and pinpointing the 'how' of their lifestyles and in designing control strategies. On the other hand, the programme looks at how recent advances in physiology can be exploited to ensure sustainable healthy populations. This programme shall provide the modern integrated physiological knowledge with reference to environment, behaviour, adaptation, energetics and molecular processes in organisms.

2. Objectives of the Programme

- i. Demonstrating advanced knowledge in the major sub-disciplines of applied zoology: entomology, parasitology, and physiology.
- ii. Imparting Knowledge in the Management of Pest and Parasitic Diseases
- iii. Demonstrating mastery in technical skills and experimental methods required to conduct research.
- iv. Displaying ability to design, execute and interpret experimental studies.
- v. Demonstrating ability to apply knowledge to establish and manage entomology, parasitology, and physiology in teaching, research and consultancy.
- vi. Demonstrating scientific competence and intellectual maturity to assess the work of peers in related fields.
- vii. Developing and writing a scientific research proposal as well as analysing, interpreting data and write a dissertation, scientific report and research papers.

3. Entry Requirements

Admission into the Applied Zoology programme will be in accordance with the University of Dar es Salaam postgraduate regulations. Applying students will be required to have at least the first degree in Biology, Zoology and related disciplines such as Veterinary Medicine, Animal Science, Biotechnology, Microbiology, Biochemistry or Public Health degree from Muhimbili University of Health and Allied Sciences (MUHAS). Applicants who lack some prerequisite subjects will be required to undertake recommended courses at undergraduate level.

4. Programme Structure

This is a taught programme comprising coursework and dissertation. It shall run for twenty-four months (2 years) for full-time students and 3 years for part-time students. Students intending to follow the programme on a part-time basis will have to make early arrangements with the coordinator to ensure the smooth running of their schedules. The coursework phase will run over a period of two semesters (each 15 weeks) with final examinations at the end of each semester. The second year shall be devoted to research and writing of the dissertation. The programme will comprise two streams: Applied Entomology and Parasitology and Applied Physiology. There will be common core courses and stream-based core courses. To graduate, a student must complete a minimum of 180 credits consisting of all prescribed core and elective courses.

5. List of Courses

| Course Code | Course Title | Credits | Semester |
|-------------|---|---------|----------|
| ZL 617 | Insect Physiology | 12 | II |
| ZL 618 | Immunology of Parasitic Infection | 12 | |
| BL 618 | Immunology | 12 | |
| ZL 623 | Molecular Biology of Parasites | | II |
| ZL 619 | Biology and control of Non-Insect Pests | 12 | |
| ZL 620 | Vector Biology and Control | 12 | |
| ZL 608 | Bioinformatics | 12 | |
| WE 662 | Wildlife Diseases and Parasitology | 8 | |

Stream A – Applied Entomology and Parasitology

| Year | Course Title | Credits | Semester | |
|-----------------------------------|--|------------|----------|----|
| I | BL 617: Molecular Biology | 12 | I | |
| | ZL 616: Insect Ecology, Pest and Vector Management | 12 | | |
| | ZL 604: Protozoology and Helminthology | 12 | | |
| | Electives | | | |
| | BL 618: Immunology | 12 | | |
| | ZL 617: Insect Physiology | 12 | | |
| | ZL 623: Molecular Biology of Parasites | 12 | | |
| | | | | II |
| | BL 607: Biostatistics | 12 | | |
| | ZL 602: Biochemistry | 12 | | |
| | BL 662: Biological methods and techniques | 12 | | |
| | SC 601 Advanced Research Methods | 12 | | |
| | Electives | | | |
| | ZL 618: Immunology of Parasitic Infection | 12 | | |
| | ZL 619: Biology and Control of Non-Insect Pests | 12 | | |
| | ZL 620: Vector Biology and Control | 12 | | |
| | BL 608: Bioinformatics | 8 | | |
| TOTAL CREDITS CORE COURSES | 84 | | | |
| | TOTAL CREDITS (CORE + ELECTIVE COURSES) | 164 | | |
| II | ZL 699: Dissertation | 60 | | |
| | TOTAL CREDITS YEAR I + II | 224 | | |

Stream B - Applied Physiology

| Year | Course Title | Credits | Semester | |
|--|--|---|----------|----|
| I | BL 617: Molecular Biology | 12 | I | |
| | ZL 611: Molecular Physiology | 12 | | |
| | ZL 612: Animal Reproductive Physiology | 12 | | |
| | Electives | | | |
| | ZL 610: Metabolism and Bioenergetics | 12 | | |
| | ZL 624: Neuroendocrinology and Behaviour | 12 | | |
| | ZL 625: Physiology and Biochemistry of Nutrition | 12 | | |
| | II | BL 607: Biostatistics | 12 | II |
| | | ZL 602: Biochemistry | 12 | |
| | | SC 601 Advanced Research Methods | 12 | |
| | | BL 662: Biological methods and techniques | 12 | |
| | | Electives | | |
| | | ZL 630: Physiology and the Environment | 12 | |
| | | ZL 614: Reproductive Endocrinology | 12 | |
| | | ZL 626: Biochemical Toxicology | 12 | |
| | | ZL 628: Stress Physiology | 12 | |
| | | ZL 629: Reproduction and Environment | 12 | |
| TOTAL CREDITS CORE COURSES | 84 | | | |
| TOTAL CREDITS (CORE + ELECTIVE COURSES) | 156 | | | |
| II | ZL 699: Dissertation | 60 | | |
| | TOTAL CREDITS YEAR I AND II | 216 | | |

6. Programme Evaluation and Examinations

Final examination shall be held immediately upon completing a course. The weighting of this final examination in determining the grade for the course shall be University Examination 60% and Continuous Assessment of the coursework 40%. The average pass grade for all postgraduate courses must be at least "B." The assessment of the research part consists of examination of the dissertation by an external and an internal examiner. The dissertation is graded and to pass a student needs to have grade B and above.

MASTER OF SCIENCE IN APPLIED BOTANY

1. Introduction

The MSc degree in Applied Botany is a two-year taught programme comprising of coursework and dissertation offered by the Botany Department. This programme intends to cater for local and international students who wish to develop their career in Applied Botany. To attain that, the programme is packaged in such a way that it will expose the candidate to a wider range of botanical disciplines that have direct application in areas related to sustainable development some of which inspire self employment and entrepreneurship.

2. Objectives of the Programme

- i. Creating a critical mass of well-versed and competent botanists equipped with the necessary knowledge, skills and attitude to achieve sustainable development of the nation at large.
- ii. Building capacity and developing practical skills on various aspects related to plant including, but not limited to: classification and identification of herbarium techniques; biodiversity and strategies for conservation; ethnobotany; causal-effect and mitigation strategies for environmental changes; plant breeding, propagation, phytoremediation and various techniques used for plant molecular researches etc

- iii. Upon completion of this programme, students will be able to demonstrate knowledge mastery, skills and competence on application of botanical sciences in undertaking research and teaching plant related subjects.

3. Entry Requirements

For admission into the MSc in Applied Botany by Coursework and Dissertation, an applicant should hold one of the following undergraduate degrees: BSc Botanical Sciences/Botany, BSc General, majoring in Biology, BSc (Ed) majoring in Biology, Forestry, Agriculture and related disciplines such as Wildlife of the University of Dar es Salaam or equivalent degrees from any other recognized institution which offers degrees in plant sciences.

4. Programme Structure

The programme is offered in the mode of coursework and dissertation, and the duration shall be 2 years, on a full-time basis. The first year will be spent on coursework while the second year shall be devoted to dissertation work. The candidate must pass a minimum of 180 credits, including all prescribed core courses i.e., coursework (minimum of 120 credits) and dissertation (60 credits).

5. List of Courses

Core Courses

| Course Code | Course Title | Credits | Semester |
|--------------|--|-----------|----------|
| BT 601 | Advanced Plant Systematics | 12 | I |
| BT 608 | Plant Propagation | 12 | |
| BT 609 | Applied Ecology and Management of Ecosystems | 12 | |
| SC 601 | Advanced Research Methods | 12 | |
| BT 603 | Seaweed Culture and Processing | 12 | II |
| BT 604 | Applied Plant Genetics | 12 | |
| BT 605 | Plant Protection | 12 | |
| BT 608 | Plant Propagation | 12 | |
| TOTAL | | 96 | |

Elective Courses

| Course Code | Course Title | Credits | Semester |
|-------------|---|---------|----------|
| BT 607 | Ecophysiology | 12 | I |
| BT 612 | Plant Biochemistry | 12 | |
| BC 602 | Conservation of Plant Diversity | 12 | |
| BC 612 | Legislation and Policies in Biodiversity Conservation | 8 | |
| BL 617 | Molecular Biology | 12 | II |
| BT 610 | Ethnobotany | 12 | |
| BT 611 | Advanced Economic Botany | 12 | |
| BC 617 | Restoration Ecology | 8 | |
| BC 614 | Bioremediation | 8 | |
| BC 607 | Diversity and Conservation of African Biomes | 8 | |
| BL 607 | Biostatistics | 12 | |
| BL 662 | Biological Methods and Techniques | 12 | |
| IEM 606 | Geographical Information systems and Remote Sensing | 8 | |

Year 2

| Course Code | Course Title | Credits | Semester |
|-------------|--------------|---------|----------|
| BT 699 | Dissertation | 60 | I & II |

6. Programme Evaluation and Examinations

For a student to be awarded MSc in Applied Botany, he/she must pass with a minimum of 180 credits of which 120 credits will be from coursework and 60 from the dissertation. The continuous assessment carries 50% and final examination carries 50%, except for courses that are shopped from other academic units which may have different weighting. For courses with strong practical components, continuous assessments carry 100%. To pass the coursework, a student must get a grade B and above in each course taken. The assessment of the research part consists of examination of the dissertation by external and internal examiners. The dissertation is graded; and to pass, a student needs to have grade of B and above.

MASTER OF SCIENCE IN APPLIED SCIENCE OF MATERIALS

1. Introduction

This is a two-year programme offered by Chemistry Department. The programme aims to train and produce graduates who can cope with the dynamics of the modern materials world. The programme shall provide theoretical and practical understanding about the science of materials thus equipping its graduates with the capability to become professionals as materials scientists who can serve both in materials production industries and the affiliated institutions. The programme consists of coursework part (first year) and dissertation in the second year.

2. Objectives of the Programme

- Providing the country with sufficiently trained human resource in applied science of materials capable of being self-employed or employable in private and public sectors.
- Advancing relevant research in the area of applied science of materials to enhance innovation of new processes and products for industrial and technological applications.
- Enabling graduates attain advanced qualifications suitable to pursue PhD studies in areas related to applied science of materials in the country or abroad

3. Entry Requirements

For admission into the MSc. (Applied Science of Materials) by coursework and dissertation, an applicant should hold a science first degree (where Chemistry is one of the subjects) of the University of Dar es Salaam or an equivalent degree from another recognized university. An applicant holding a pass degree can be admitted provided that she/he has an overall grade of B or higher in Chemistry at the undergraduate level.

4. Programme Structure

This programme runs on full-time basis for a period of 2 years (4 semesters). The program requires that a student must complete a minimum of 180 credits in the period of two years, i.e., a minimum of 120 credits of coursework in first year plus 60 credits of dissertation in the second year. Out of 120 credits of coursework, 72 credits will be attained from the prescribed core courses and the rest are accumulated from elective courses.

5. List of Courses

Year 1

Core Courses

| Course Code | Course Title | Credits | Semester |
|--------------|---|-----------|----------|
| CH 621 | Metallurgy | 12 | I |
| CH 623 | Heterogeneous Equilibria and Phase Diagrams | 12 | |
| CH 622 | Organic Chemicals of Industrial, Agricultural and Medicinal Applications. | 12 | |
| CH 630 | Advanced Analytical Chemistry and Instrumentation | 12 | II |
| *SC 601 | Advanced Research Methods | 12 | |
| CH 620 | Good Laboratory Practice and Quality Assurance | 12 | |
| Total | | 72 | |

Elective Courses

| Course Code | Course Title | Credits | Semester |
|-------------|---|---------|----------|
| CH 610 | Surface and Colloid Chemistry | 8 | I |
| *CH 331 | Chemometrics | 8 | |
| CH 614 | Molecular Imprinting Technology | 12 | |
| CH 615 | Raw Materials for Industries and their Processing | 12 | I |
| CH 624 | Sustainable Energy Materials | 12 | |
| PD 631 | Corrosion and Corrosion Control | 12 | |
| CH 613 | Advanced Environmental Chemistry | 8 | II |
| CH 618 | Structure and Properties of Polymers | 12 | |
| PH 635 | Nanotechnology | 12 | |
| *MK 301 | Small Business and Entrepreneurship | 8 | |

Year 2

| Course Code | Course Title | Credits | Semester |
|-------------|--------------|---------|----------|
| CH 699 | Dissertation | 60 | I & II |

* Students are allowed to opt up to a maximum of 16 credits of the recommended 300 series courses provided that they did not take those courses during their undergraduate programmes.

6. Programme Evaluation and Examinations

The assessment of the coursework part consists of continuous assessment which carries 40% and final examination 60%. To pass the coursework, a student must score a minimum of B grade in each course of the coursework component. The assessment of the research part consists of examination of the dissertation by an internal examiner and external examiner. The dissertation is graded; and to pass, a student needs to score a minimum of B grade.

MASTER OF SCIENCE IN PHYSICS

1. Introduction

The programme runs on full-time basis for a period of 2 years (4 semesters). The overall goal of the programme is to produce human capacity in Physics that is needed to create technology-based economy. The program was designed to meet the rapidly growing demand for qualified physicists in different sectors of the economy including research, regulatory bodies, industry, medicine and higher institutions of learning in the country.

2. Objectives of the Programme

- i. Advancing physics in the country by producing graduates with proficiency in theoretical and practical aspects of the course.
- ii. Producing physics graduates to meet the growing demand for qualified physicists in different sectors of the economy.
- iii. Producing graduates with the potential to pursue research degree programme (PhD) at home or abroad in areas relevant to the economy of the country.

3. Entry Requirements

A minimum of the second-class degree with a major in physics from a recognized institution of learning or a pass degree with an overall grade of B or above in Physics.

4. Programme Structure

The programme runs on full-time basis for a period of 2 years (4 semesters). It consists of two parts: Coursework and research (dissertation). For the coursework part, a student must do five core courses during the first semester and three core courses and at least two elective courses for semester 2. The research part of the program leading to a dissertation is done in the second year running through 2 semesters. The coursework component carries a minimum of 120 credits and the dissertation carries 60 credits. To graduate from the programme a student requires a minimum of 180 credits.

5. List of Courses

Core Courses

| Course Code | Course Title | Credits | Semester |
|--------------|-------------------------------------|-----------|----------|
| PH 611 | Electrodynamics | 12 | I |
| PH 615 | Computational Physics | 12 | |
| PH 616 | Statistical Mechanics | 12 | |
| PH 613 | Electronics | 12 | |
| PH 614 | Advanced Experimental Physics | 12 | |
| PH 617 | Quantum mechanics | 12 | II |
| PH 618 | Condensed Matter Physics | 12 | |
| PH 619 | Nuclear Physics and instrumentation | 12 | |
| Total | | 96 | |

Elective Courses: (Choose at least 24 Credits from one of the streams)

Stream (a)

| Course Code | Course Title | Credits | Semester |
|-------------|---|---------|----------|
| PH 620 | Aerosol Physics | 12 | II |
| PH 621 | Atmospheric Dispersion and Air Quality Modeling | 12 | |
| PH 622 | Atmospheric Boundary Layer and Turbulence | 12 | |
| PH 623 | Physics of Sustainable Electricity Generation | 12 | |

Stream (b)

| Course Code | Course Title | Credits | Semester |
|-------------|------------------------------------|---------|----------|
| PH 624 | Nuclear reactor physics | 12 | II |
| PH 625 | Nuclear technique and applications | 12 | |
| PH 626 | Radiation dosimetry and protection | 12 | |

Stream (c)

| Course Code | Course Title | Credits | Semester |
|-------------|---|---------|----------|
| PH 627 | Medical electronics and instrumentation | 12 | II |
| PH 628 | Physics of medical imaging | 12 | |
| PH 629 | Radiation effects on electronic devices | 12 | |

Stream (d)

| Course Code | Course Title | Credits | Semester |
|-------------|---|---------|----------|
| PH 630 | Introduction to nanoelectronics and nanoscale materials | 12 | II |
| PH 635 | Nanotechnology | 12 | |

Year 2

| Course Code | Course Title | Credits | Semester |
|-------------|--------------|---------|----------|
| PH 699 | Dissertation | 60 | I & II |

6. Programme Evaluation and Examinations

Assessment for the coursework part will constitute a combination of continuous assessment (40%) and final examination (60%) in the first year. The continuous assessment for courses which are entirely practical will carry 100%. Assessment of the final degree will consist of 120 credits for coursework and 60 credits for the dissertation.

MASTER OF SCIENCE IN MATHEMATICAL MODELLING**1. Introduction**

This is a two-year programme offered by the Department of Mathematics. The programme aims to train graduates with a strong mathematical background needed for teaching, collaboration with industries and also for research. The programme consists of a coursework part (first year) and a research or dissertation part in the second year. The coursework component carries a minimum of 120 credits. The dissertation carries 60 credits. To graduate from the programme a student requires a minimum of 180 credits.

2. Objectives of the Programme

- i. Producing highly skilled mathematicians and problem solvers capable of promoting the teaching, research, applications and outreach of mathematics in the region and beyond. ^[1]_[SEP]
- ii. Creating new opportunities for postgraduate research in mathematics. ^[1]_[SEP]
- iii. Contributing towards the production of mathematics professionals required for ^[1]_[SEP]national and regional development.
- iv. Increasing experts of mathematical modeling in the region.

3. Entry Requirements

Direct entry admission into this programme will be based on possession of first degree, with a major in Mathematics.

4. Programme Structure

The programme runs on full-time basis for a period of 2 years (4 semesters). It consists of two parts: coursework part and research (dissertation). For the coursework part, a student must do four core courses and at least one elective course during the first semester and three core courses and at least two elective courses for the second semester. A semester runs for 15 weeks and in each week, there are 8 learning hours. The second year of study is the research year. The first part of research is proposal writing. Once the proposal is approved, the research commences and at the end, a student must submit a dissertation for examination.

5. List of Courses

| Course Code | Course Title | Status | Credits | Semester |
|--------------|---|----------|-----------|----------|
| MT 602 | Numerical Analysis | Core | 12 | I |
| MT 619 | Applied Functional Analysis | Core | 12 | |
| MT 663 | Ordinary Differential Equations | Core | 12 | |
| MT 641 | Advanced Mathematical Statistics | Core | 12 | |
| | Elective | Elective | 12 | |
| TOTAL | | | 60 | |
| MT 631 | Stochastic Differential Equations | Core | 12 | I |
| MT 683 | Partial Differential Equations | Core | 12 | |
| MT 604 | Optimization Methods of Operations Research | Core | 12 | |
| | Elective I | Elective | 12 | |
| | Elective II | Elective | 12 | |
| TOTAL | | | 60 | |

Elective Courses:

| Course Code | Course Title | Credits | Semester |
|-------------|---|---------|----------|
| MT 601 | Advanced Probability Theory | 12 | II |
| MT 605 | Advanced Linear Algebra | 12 | II |
| MT 609 | Numerical solution of PDEs | 12 | II |
| MT 610 | Complex Analysis | 12 | II |
| MT 628 | Mathematical Finance and Insurance | 12 | I |
| MT 640 | Numerical Linear Algebra | 12 | II |
| MT 643 | Statistical Inference | 12 | I |
| MT 644 | Stochastic Systems | 12 | II |
| MT 646 | Bayesian Sampling methods | 12 | I |
| MT 647 | Fourier Analysis | 12 | I |
| MT 652 | Biomathematics | 12 | II |
| MT 659 | Measure Theory and Integration | 12 | II |
| MT 660 | Computer Programming | 12 | I |
| MT 664 | Graph Theory | 12 | I |
| MT 665 | Mathematical Packages for Scientific Computations | 12 | II |
| MT 672 | Fluid Dynamics I | 12 | I |

| Course Code | Course Title | Credits |
|-------------|--------------|---------|
| MT 699 | Dissertation | 60 |

6. Programme Evaluation and Examinations

The assessment of the coursework part consists of continuous assessment which carries 40% and final examination 60%. To pass the coursework, a student must get a grade B and above in each of courses. The assessment of the research part consists of examination of the dissertation by an external and an internal examiner. The dissertation is graded and to pass a student needs to have grade B and above.

MASTER OF SCIENCE IN MATHEMATICS

1. Introduction

The programme runs on full-time basis for a period of 2 years (4 semesters). The programme aims to train graduates with a strong mathematical background needed for teaching and research. The programme consists

of coursework (first year) and dissertation in second year. The coursework component carries a minimum of 120 credits and the dissertation carries 60 credits. To graduate from the programme, a student requires a minimum of 180 credits

2. Objectives of the Programme

- i. Producing highly skilled mathematicians and problem solvers capable of promoting the teaching, research, applications and outreach of mathematics in the region and beyond.
- ii. Creating new opportunities for postgraduate research in mathematics.
- iii. Contributing towards the production of mathematics professionals required for national and regional development.
- iv. Increasing experts of mathematics in the region.

3. Entry Requirement

Direct entry admission into this programme will be based on possession of first degree majoring in Mathematics.

4. Programme Structure

The programme runs on full-time basis for a period of 2 years (4 semesters). It consists of two parts: coursework and research (dissertation). For the coursework part, a student must do four core courses and at least one elective course during the first semester and three core courses and at least two elective courses for the second semester. A semester runs for 15 weeks and in each week, there are 8 learning hours. The second year of study is the research year. The first part of research is proposal writing. Once the proposal is approved, the research commences and at the end a student must submit a dissertation for examination.

5. List of Courses

| Course Code | Course Title | Status | Credits | Semester |
|--------------|---------------------------------|----------|-----------|----------|
| MT 630: | Differential Geometry | Core | 12 | I |
| MT 674: | Real Analysis | Core | 12 | |
| MT 619: | Applied Functional Analysis | Core | 12 | |
| MT 663: | Ordinary Differential Equations | Core | 12 | |
| | Elective | Elective | 12 | |
| Total | | | 60 | |
| MT 605: | Advanced Linear Algebra | Core | 12 | II |
| MT 623: | Commutative Algebra | Core | 12 | |
| MT 653: | Topology | Core | 12 | |
| | Elective – 1 | Elective | 12 | |
| | Elective – 2 | Elective | 12 | |
| Total | | | 60 | |

Elective Courses

| Course Code | Title | Credits | Semester |
|-------------|-----------------------|---------|----------|
| MT 602 | Numerical Analysis | 12 | I |
| MT 608 | Algebraic Geometry | 12 | II |
| MT 612 | Galois Theory | 12 | II |
| MT 610 | Complex Analysis | 12 | II |
| MT 616 | Computational Algebra | 12 | I |
| MT 617 | Algebraic Topology | 12 | II |
| MT 618 | Combinatorics | 12 | I |
| MT 625 | Logic and Set Theory | 12 | I |

| Course Code | Title | Credits | Semester |
|-------------|---|---------|----------|
| MT632 | Algebra: Group and Ring Theories | 12 | II |
| MT 647 | Fourier Analysis | 12 | I |
| MT 649 | Number Theory and Cryptography | 12 | I |
| MT 659 | Measure Theory and Integration | 12 | II |
| MT 660 | Computer Programming | 12 | I |
| MT 664 | Graph Theory | 12 | I |
| MT 665 | Mathematical Packages for Scientific Computations | 12 | II |

| Course Code | Course Title | Credits |
|-------------|--------------|---------|
| MT 699 | Dissertation | 60 |

6. Programme Evaluation and Examinations

The assessment of the coursework part consists of continuous assessment which carries 40% and final examination 60%. To pass the coursework, a student must score a minimum of B grade in each course. The assessment of the research part consists of examination of the dissertation by an internal examiner and external examiner. The dissertation is graded; and to pass, a student needs to score a minimum of B grade.

MASTER OF SCIENCE IN CHEMISTRY

1. Introduction

This is a two-year programme offered by Chemistry Department. The MSc (Chemistry) by Course-work program aims to train human resource engaged in issues of chemical technology, environment, and nanotechnology.

2. Objectives of the Programme

- To enable graduates to demonstrate proficiency in theoretical and practical aspects of chemistry.
- To enable chemistry graduates to possess advanced skills to meet high demand of the labour market.
- To enable chemistry graduates to acquire advanced knowledge and qualifications suitable to pursue research and further studies (PhD) at home or abroad

3. Entry Requirements

An applicant must hold a science first degree (where chemistry is one of the subjects) of the University of Dar es Salaam or an equivalent degree from a recognized university. An applicant holding a Pass degree can be admitted provided she/he has an overall grade of B or higher in Chemistry at the Undergraduate level.

4. Programme Structure

This programme runs on full-time basis for a period of 2 years (4 semesters). The programme requires a student to complete a minimum of 180 credits in two years, i.e., a minimum of 120 credits of coursework in first year plus 60 credits of dissertation in the second year. Out of 120 credits of coursework, 88 credits will be attained from the prescribed core courses and the rest are accumulated from elective courses.

5. List of Courses

Year 1

Core Courses

| Course Code | Course Title | Credits | Semester |
|-------------|-------------------------------------|---------|----------|
| CH 617 | Advanced Thermodynamics | 12 | I |
| CH 609 | Chemical Speciation | 8 | |
| CH 606 | Coordination Chemistry | 12 | |
| CH 607 | Advanced Physical Organic Chemistry | 12 | |

| | | | |
|--------|---|----|----|
| CH 608 | Advances in Organic Synthesis | 12 | II |
| CH 630 | Advanced Analytical Chemistry and Instrumentation | 12 | |
| CH 603 | Solid State Chemistry | 12 | |
| CH 613 | Advanced Environmental Chemistry | 8 | |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| CH 394 | Fundamentals of Theoretical Chemistry | 12 |
| CH 610 | Surface and Colloid Chemistry | 8 |
| CH 611 | Heterocyclic Chemistry | 8 |
| CH 612 | Advanced Chemical Kinetics | 12 |
| *CH 331 | Chemometrics | 8 |
| *CH 357 | Fuel Chemistry and Technology | 8 |
| *CH 379 | Organometallic Chemistry | 12 |
| CH 614 | Molecular Imprinting Technology | 12 |
| CH 615 | Raw Materials for Industries and their Processing | 12 |
| CH 616 | Chemistry of Natural Products II | 12 |
| IEM 651 | Entrepreneurship and the Environment | 8 |
| SC 601 | Advanced Research Methods | 12 |

*Students are allowed to opt up to a maximum of 16 credits of the recommended 300 series courses provided that they did not take those courses in their undergraduate programmes.

Year 2

| Course Code | Course Title | Credits |
|-------------|--------------|---------|
| CH 699 | Dissertation | 60 |

6. Programme Evaluation and Examinations

The assessment of the coursework part consists of continuous assessment which carries 40% and final examination 60%. To pass the coursework, a student must score a minimum of B grade in each course of the coursework component. The assessment of the research part consists of examination of the dissertation by an internal examiner and external examiner. The dissertation is graded and to pass, a student needs to score a minimum of B grade.

MASTER OF SCIENCE IN BIOCHEMISTRY

1. Introduction

The MSc (Biochemistry) is a two-year full-time programme comprising coursework and dissertation offered by Chemistry Department. It is intended for graduates who wish to engage in research, teaching, scientific laboratory management and careers in biochemistry, biotechnology, pharmaceutical industry, public health, agriculture and related fields. The programme focuses on recent advances in biochemistry and biochemical techniques with the aim of producing skilled graduates able to run food, beverage, agricultural and medical sectors successfully.

2. Objectives of the Programme

- i. Producing trained graduates to fulfil the manpower requirements for biochemists in industrial, food, environmental, agricultural and biomedical fields in the country and the region.
- ii. Producing biochemistry graduates capable of teaching and conducting research in biochemistry in areas relevant to the economy of the country.
- iii. Producing graduates with the necessary competence required to establish and manage enterprises.
- iv. Contributing towards alleviating the paucity of trained staff for the tertiary level institutions in the country.

3. Entry Requirements

The applying candidate should be a holder of a first degree majoring in Biochemistry, Chemistry, Biology, Microbiology, Biotechnology, Chemical Engineering, Nutrition Science, Environmental and Health Science, Veterinary Medicine, Nursing, Pharmacy, Animal Science, or Medicine. An applicant holding a pass degree can be admitted provided she/he has an overall grade of B or higher in the said courses at the Undergraduate Level.

4. Programme Structure

This programme runs on full-time basis for a period of 2 years (4 semesters). The program requires a student to complete a minimum of 120 credits of coursework, of which, 96 credits are prescribed as core courses and the rest are accumulated from elective courses. The programme comprises common core courses for both streams (60 credits) and specified stream core courses (36 credits). The coursework component is offered in the first year in two semesters, followed by a dissertation work (60 credits) in the second year of study.

5. List of Courses

Year 1

Common Core Courses

| Course Code | Course Title | Credits | Semester |
|-------------|---------------------------|-----------|----------|
| CH 651 | Chemistry of Biomolecules | 12 | I |
| BL 617 | Molecular Biology | 12 | |
| BN 601 | Bioethics | 12 | II |
| BL 608 | Bioinformatics | 12 | |
| SC 601 | Advanced Research Methods | 12 | |
| | Total | 60 | |

Core Courses for Industrial and Food Biochemistry Stream

| Course Code | Course Title | Credits | Semester |
|-------------|--|-----------|----------|
| MC 601 | Microbial Biochemistry | 12 | I |
| CH 659 | Food and Nutrition Biochemistry | 12 | |
| ZL 625 | Physiology and Biochemistry of Nutrition | 12 | |
| | Total | 36 | |

Core Courses for Environmental and Agricultural Biochemistry Stream

| Course Code | Course Title | Credits | Semester |
|-------------|-------------------------------------|-----------|----------|
| ZL 626 | Biochemical Toxicology | 12 | I |
| BT 612 | Plant Biochemistry | 12 | |
| BN 604 | Recombinant Genetic Bio- technology | 12 | II |
| | Total | 36 | |

Common Elective Courses

| Course Code | Course Title | Credits |
|-------------|------------------------------|---------|
| ZL 610 | Metabolism and Bioenergetics | 12 |
| BL 619 | Enzymology | 12 |
| BL 618 | Immunology | 12 |
| CH 655 | Clinical Biochemistry | 12 |
| CH 656 | Neuro Biochemistry | 12 |
| CH 657 | Forensic Biochemistry | 12 |

| | | |
|--------|-------------------------|----|
| ZL 611 | Molecular Physiology | 12 |
| CH 658 | Analytical Biochemistry | 12 |
| BL 607 | Biostatistics | 12 |

Year 2

| Course Code | Course Title | Credits |
|-------------|--------------|---------|
| CB 699 | Dissertation | 60 |

6. Programme Evaluation and Examinations

The assessment of the coursework part consists of continuous assessment which carries 40% and final examination 60%. To pass the coursework, a student must score a minimum of B grade in each course of the coursework component. After coursework, the candidate will be required to do dissertation (CB 699) in one of the three offering departments. The assessment of the research part consists of examination of the dissertation by an internal examiner and external examiner. The dissertation is graded; and to pass, a student needs to score a minimum of B grade.

MASTER OF SCIENCE WITH EDUCATION (MSc ED)

1. Introduction

The MSc (Ed) programme is intended for graduate science teachers who want to expand scope and depth of their knowledge base in the major areas of natural science and mathematics, and advance their professional career as a science teacher. In order to cater for the large number of science teachers, the programme will be offered in the mode of coursework and dissertation. The duration shall be two years, on a full-time basis and three years on part-time basis. The coursework programme component consists of science discipline-based and education courses. A candidate shall major in only one science (or mathematics) subject.

2. Objectives of the Programme

This programme geared at creating a critical mass of welltrained teachers who are equipped with necessary skills, knowledge, and attitude to promote educational industry for sustainable development.

The objectives of the programme are to:

- i. produce graduates with proficiency in theoretical and practical aspects of Biology / Chemistry / Mathematics / Physics and teaching profession;
- ii. produce MSc (Education) graduates with a set of skills that is highly demanded in the educational labour market;
- iii. produce graduates with the potential for high level research in areas relevant for improving the economy of the society;
- iv. create new opportunities for postgraduate research in Science education;
- v. contribute towards the production of Science educational professionals required for national and regional development; and
- vi. foster regional collaboration in teaching.

3. Entry Requirements

Admission into the programme will be in accordance with the University of Dar es Salaam regulations regarding postgraduate studies. Candidates applying for the MSc (Ed) programme shall hold BSc (Ed) or B.Ed. (Science) degrees from a recognized institution. Graduates from non-education science degree programmes, or equivalent qualifications, will be required to undertake postgraduate diploma in Education as a prerequisite programme prior to admission into the MSc (Ed) programme.

4. Programme Structure

The MSc (Ed) is a taught programme comprising of course-work and dissertation and the duration shall be twenty-four months (2 years) for full-time students and thirty-six months (3 years) for part-time students. Coursework will run over a period of two semesters of 15 teaching weeks each, with final examination at

the end of each semester. The second year shall be devoted to research and writing of the dissertation. During the second semester of the first year, students will be required to develop research proposals detailing the theoretical background and methodology, as a preparation for research and dissertation work.

The course-work programme consists of science discipline-based and science education courses. The science education component will be offered by the SoED. Science discipline-based courses comprise of basic sciences, namely Biology (BL), Chemistry (CH), Physics (PH) and Mathematics (MT), in which a candidate shall major in only one of these subjects. Some of the science courses are drawn from among those offered in the existing MSc programmes in the respective Departments of the College of Natural and Applied Sciences. In essence there will be four streams, namely, BL/Ed, CH/ Ed, PH/Ed and MT/Ed.

The coursework component will carry a minimum of 120 credits. Most of the courses are worth 12 credits, with very few courses having 8 credits. Students will be compelled to do a minimum of 60 credits per semester. The dissertation part will be 60 credits in respective departments for MSc with education students. The list of recommended core and elective courses are as follows:

5. List of Courses

Education Courses

Core Courses

| Course Code | Course Title | Credits | Semester |
|--------------|---|-----------|----------|
| FE 600a | Research Methods in Education I | 12 | I |
| CT 645 | Computer Assisted Learning in Science and Mathematics | 12 | |
| EP 624 | Theories of Teaching and Learning | 12 | II |
| FE 600b | Research Methods in Education I | 12 | |
| Total | | 48 | |

Elective Courses

| Course Code | Course Title | Credits | Semester |
|-------------|--|---------|----------|
| CT 600 | Curriculum and Teaching | 12 | I |
| CT 604 | Assessment of performance in SMT | 12 | II |
| CT 603 | Professional Development in SMT | 12 | |
| EA 607 | Management of Education Systems and Institutions | 24 | |

Biology Stream

Core Courses

| Course Code | Course Title | Credits | Semester |
|--------------|-----------------------------------|------------|----------|
| ZL 604 | Protozoology and Helminthology | 12 | I |
| BL 617 | Molecular Biology | 12 | |
| BL 661 | Advanced Genetics | 12 | |
| BL 662 | Biological Methods and Techniques | 12 | II |
| BL 607 | Biostatistics | 12 | |
| BL 663 | Advanced Physiology | 12 | |
| BL 699 | Dissertation | 60 | |
| Total | | 132 | |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|--|---------|
| BC 604 | Aquatic Biodiversity and Conservation | 12 |
| BT 605 | Plant Protection | 12 |
| BL 668 | Soil/Plant Water Relations | 12 |
| BL 670 | Fauna and Flora of East Africa | 12 |
| ZL 612 | Animal Reproductive Physiology | 12 |
| ZL 616 | Insect Ecology, Pest and Vector Management | 12 |

Chemistry Stream*Core Courses*

| Course Code | Course Title | Credits | Semester |
|--------------|--|------------|----------|
| CH 606 | Coordination Chemistry | 12 | I |
| CH 619 | Physical Chemistry | 12 | |
| CH 630 | Advanced Analytical Chemistry and Instrumentation | 12 | II |
| CH 618 | Structure, Properties and Applications of Polymers | 12 | |
| CH 651 | Chemistry of Biomolecules | 12 | |
| CH 699 | Dissertation | 60 | I & II |
| Total | | 120 | |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|---------------------------------------|---------|
| CH 603 | Solid State Chemistry | 12 |
| CH 607 | Advanced Physical Organic Chemistry | 12 |
| CH 610 | Surface and Colloid Chemistry | 8 |
| CH 611 | Heterocyclic Chemistry | 8 |
| CH 613 | Advanced Environmental Chemistry | 8 |
| CH 616 | Chemistry of Natural Products | 12 |
| CH 394 | Fundamentals of Theoretical Chemistry | 12 |

Mathematics Stream*Core Courses*

| Course Code | Course Title | Credits | Semester |
|-------------------------|-----------------------------------|------------|----------|
| MT 641 | Advanced Mathematical Statistics | 12 | I |
| MT 662 | Techniques in Operations Research | 12 | |
| MT 602 | Numerical Analysis | 12 | II |
| MT 605 | Advanced Linear Algebra | 12 | |
| MT 663 | Ordinary Differential Equations I | 12 | |
| MT 699 | Dissertation | 60 | |
| Total Core Units | | 120 | |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|-----------------------------|---------|
| MT 601 | Advanced Probability Theory | 12 |
| MT608 | Algebraic Geometry | 12 |
| MT 610 | Complex Analysis | 12 |

| | | |
|---------|---------------------------------------|----|
| MT 672: | MT 672: Fluid Mechanics I | 12 |
| MT 660 | Computer Applications and Programming | 12 |

Physics Stream

Core Courses

| Course Code | Course Title | Credits | Semester |
|-------------------------|-------------------------------------|------------|----------|
| PH 611 | Electrodynamics | 12 | I |
| PH 613 | Electronics | 12 | |
| PH 617 | Quantum Mechanics | 12 | |
| PH 618 | Condensed Matter Physics | 12 | II |
| PH 619 | Nuclear Physics and Instrumentation | 12 | |
| PH 699 | Dissertation | 60 | |
| Total Core Units | | 120 | |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| PH 615 | Computational Physics | 12 |
| PH 616 | Statistical Mechanics | 12 |
| PH 620 | Aerosol Physics | 12 |
| PH 621 | Atmospheric Dispersion and Air Quality Modeling | 12 |
| PH 623 | Physics of Sustainable Electricity Generation | 12 |
| PH 625 | Nuclear Techniques and Applications | 12 |

6. Programme Assessment and Examinations

Assessment for the coursework part will constitute a combination of continuous assessment (at least two tests and/or practical reports, presentations and evaluation of assignments) and final examination in the first year. Assessment of the final degree will consist of 180 credits, of which 120 credits will be for coursework part and 60 credits for dissertation. The coursework component consists of core and elective courses. Assessment of research proposals and dissertations will be done according to the UDSM Postgraduate Guidelines and Regulations. The General University of Dar es Salaam and the College of Natural and Applied Sciences examination regulations governing the award of MSc degrees shall apply to the MSc (Ed) programme. Specific requirements for basic science and education courses shall be governed by relevant CoNAS and School of Education (SoED) examination regulations respectively.

MASTER PROGRAMMES BY THESIS

1. Introduction

CoNAS offers a Master of Science by thesis in all major fields of specialization which are:

- MSc (Applied Microbiology)
- MSc (Applied Zoology)
- MSc (Biotechnology)
- MSc (Botany)
- MSc (Molecular Biology)
- MSc (Mathematics)
- MSc (Physics)
- MSc (Chemistry)
- MSc (Zoology)
- MSc (Wildlife Ecology)

2. Entry Requirements

The minimum qualification for admission to the programme is an upper second-class Bachelor of Science degree in respective Science field from the University of Dar es Salaam or another recognized institution.

3. Programme Structure

The registration period for the programme shall normally be 24 months for full-time students up to 48 months for part-time students. Registration for the programme shall be at the beginning of either semester I or II during the Academic Year. The registration shall be renewed annually. Further guidelines are as contained in the UDSM Postgraduate Guidelines.

4. Programme Evaluation and Examinations

MSc programmes by thesis are run for a period not less than two years, on a full-time basis. They are based on research only. The research part consists of proposal writing and thesis. The thesis is examined by external and internal examiners. To pass the candidate must score a minimum of grade B from the examiners. In addition, for a candidate to graduate from such programme he/she must pass the *viva voce* examination with grade not below grade B.

DOCTOR OF PHILOSOPHY (PhD) PROGRAMMES

All departments offer PhD programmes by Thesis.

DOCTOR OF PHILOSOPHY (PhD) BY THESIS

1. Introduction

CoNAS offers Doctor of Philosophy degree in all the major fields of Science specialization.

2. Entry Requirements

A candidate for admission to the PhD degree programme must hold a relevant Masters degree of the University of Dar es Salaam or any other recognized institution. Candidates who possess a relevant First Class in Bachelor of Science may be considered for PhD registration after initially registering for the Master degree (thesis), and demonstrating outstanding performance after doing postgraduate training for at least one year, upon recommendations of the HDC and authorization by the Senate.

3. Programme Structure

The programme involves a minimum of three years for full-time candidates, or five years for part-time registered candidates. Further guidelines are as contained in the UDSM Postgraduate Guidelines. The general University regulations for postgraduate studies and specifically for PhD studies govern the conduct of studies in the College

4. Programme Evaluation and Examinations

PhD programmes by thesis are run for a period not less than three years, on a full-time basis. They are based on research only. The research part consists of proposal writing and thesis. The thesis is examined by external and internal examiners. To pass, the candidate must score a minimum of grade B from the examiners. In addition, for a candidate to graduate from such programme he/she must pass the *viva voce* examination with not less than grade B.

PhD PROGRAMME BY COURSEWORK AND DISSERTATION

PhD IN ENVIRONMENTAL SCIENCES

1. Introduction

PhD in environmental science is an inter-disciplinary and multi-disciplinary programme that cuts across various specialties. The programme covers various aspects of environmental issues pertaining to recent technological developments that have led to climate change and environmental degradation. It is designed to provide advanced knowledge in biological, environmental modelling, physical and chemical sciences. The programme is designed for researchers, trainers and managers on environmental management issues.

2. Objectives of the Programme

This programme accentuates creativity and originality and it is intended to produce knowledgeable, skilled and internationally competitive graduates in various aspects in environmental sciences.

The specific objectives of the programme are to:

- i. provide interdisciplinary and multidisciplinary research and training that addresses the understanding of the underlying mechanisms by which physical, chemical and biological agents cause alterations in the environment;
- ii. develop expertise in conducting original research using advanced research methods and high proficiency in the interpretation, analysis, and explanation of environmental phenomena; and
- iii. provide graduate students with advanced academic knowledge, research and management skills needed for successful careers in environmental science and related jobs at various private institutions, government agencies, academia and industry.

3. Entry Requirements

Admission into the programme will be in accordance with the University of Dar es Salaam Postgraduate admission regulations. An applicant is required to have an MSc in natural and applied science subjects or equivalent qualifications in related fields from a recognized institution.

4. Programme Structure

This is a taught PhD programme in Environmental Sciences that shall run for a maximum of 4 years and 6 years for full-time and part-time respectively. Full-time students will be required to complete coursework within two semesters while part-time students will be required to complete their coursework within 4 semesters. To cater for its multi-disciplinary nature, the programme will comprise three streams namely:

Stream A: Biological Sciences Stream B: Physical Sciences

Stream C: Environmental Modelling

The number of credits for graduation will be 540; of these, 180 will be for coursework and 360 will be for dissertation. Of the coursework credits, a total of 72 will be from common core courses designed for all streams, 36 credits from core courses set special for each stream and 72 or more credits opted from the list of common elective ones, as well as other stream core courses and/or other relevant PhD programmes upon approval by CoNAS. Each course will have 18 credits.

5. List of Courses

Semester Mapping for Common Core Courses and Core Courses by Stream:

Core Courses

| Year | Course Code | Course Title | Credits | Total Credits | Semester | |
|------|------------------------------------|--|---------|---------------|----------|--|
| 1 | EV 730 | Earth Systems Science | 18 | 36 | I | |
| | EV 731 | Environmental Degradation and Conservation | 18 | | | |
| | EV 732 | Advanced Statistics and Research Methods | 18 | 36 | II | |
| | EV 734 | Environmental Law and Policy | 18 | | | |
| | Core Stream A: Biological Sciences | | | | | |
| | EV 735 | Environmental Bioremediation | 18 | 36 | I | |
| | EV 736 | Environmental Toxicology | 18 | | II | |
| | Core Stream B: Physical Sciences | | | | | |
| | EV 737 | Meteorology and Air Quality Models | 18 | 36 | I | |
| | EV 738 | Environmental Isotope Hydrology | 18 | | II | |

| | | | | | |
|--|--|-------------------------------------|----|----|----|
| | Core Stream C: Environmental Modelling | | | | |
| | EV 739 | Environmental Mathematical Modeling | 18 | 36 | I |
| | EV 740 | Dynamical Systems | 18 | | II |

Semester Mapping of Elective Courses:

| Year | Course Code | Course Title | Credits | Total | Semester |
|--------|--|---|---------|-------------|----------|
| 1 | <i>Elective Courses</i> | | | | I |
| | EV 733 | Environmental Safety and Policy | 18 | As required | |
| | EV 741 | Climatic Change and the Environment | 18 | | |
| | EV 743 | Numerical Solutions of Differential Equations | 18 | | |
| | EV 745 | Stress Physiology | 18 | | |
| | EV 747 | Soil and Aquatic Chemistry | 18 | | |
| | EV 749 | Earth and Atmospheric Sciences | 18 | | |
| | EV 753 | Energy Resources and the Environment | 18 | | |
| | EV 754 | Stochastic Processes | 18 | | |
| | <i>Elective Courses</i> | | | | II |
| | EV 742 | Environmental Hazards and Management | 18 | As required | |
| | EV 744 | Mathematical Statistics | 18 | | |
| | EV 746 | Environmental Restoration | 18 | | |
| | EV 748 | Methods in Environmental Chemical Analysis | 18 | | |
| | EV 750 | Fluid Dynamics in the Environment | 18 | | |
| EV 751 | Environmental Economics and Accounting | 18 | | | |
| EV 752 | Water Resources and Soil Management | 18 | | | |

6. Programme Evaluation and Examinations

Assessment of the coursework part will be based on Continuous Assessments (at least two tests and/or practical reports, presentations and evaluation of assignments) and Final/University Examinations. The continuous assessment will carry 50% and the final examination 50%. Before the dissertation phase, each candidate shall perform comprehensive examinations (written and oral) as per the University of Dar es Salaam Regulations and Guidelines. The written examination will follow the standard format for University of Dar es Salaam examinations. The general University of Dar es Salaam examination rules and regulations shall apply. Assessment of research proposals for dissertations and or thesis will be done according to the UDSM Regulations.

PHD IN MATHEMATICS BY COURSEWORK AND DISSERTATION

1. Introduction

The programme runs on a full-time basis for a period of 4 years and is offered by the Department of Mathematics. It consists of coursework and research (dissertation) and three streams in Applied Mathematics, Pure mathematics and Mathematical Statistics. Coursework is for one year and the dissertation (research part) for three years. This programme aims to prepare PhD graduates who are experts in Mathematics and able to apply their knowledge to solve real-life problems. They should be able to demonstrate the ability to teach in higher learning institutions and to conduct quality research that is relevant to the needs of our society. They should show commitment to establish collaborative research with the industry.

2. Objectives of the Programme

- i. Creating new opportunities for postgraduate research in Mathematics in Africa
- ii. Contributing towards the production of Mathematics professionals required in our national and regional development
- iii. Inculcating proactive and relevant knowledge needed for community development
- iv. Fostering regional collaboration in Mathematics
- v. Developing collaboration with industry in mathematical modelling, systems and services that address key national and regional economic needs
- vi. Equipping graduates with innovative knowledge, skills and values with top notch qualifications in Mathematics

3. Entry Requirements

Direct entry admission into this programme will be based on possession of Masters' degree in Mathematics or its equivalent as per UDSM postgraduate guidelines. The equivalent degree will be assessed by the department on the basis of mathematics contents studied.

4. Programme Structure

The PhD programme is by coursework (2 semesters) and research (6 semesters). It consists of three streams namely:

- i. Pure Mathematics stream
- ii. Applied Mathematics stream
- iii. Mathematical Statistics Stream

The coursework will have a weight of 180 credits and will be covered in two semesters. Each course in this programme is worth 18 credits. In order to meet the minimum 90 credits per semester a student is required to do at least 5 courses per semester, which is equivalent to 900 learning hours per semester. Minimum credits required for coursework part are 180 for the coursework part and 360 credits for the dissertation. To graduate from the programme, a student requires a minimum of 540 credits.

5. List of Courses

List of Courses for Pure Mathematics Stream

| Course Code | Course Title | Status | Credits | Semester |
|-------------|--------------------------------|----------|-----------|----------|
| MT 701 | Measure Theory and Integration | Core | 18 | I |
| MT 702 | Advanced Functional Analysis | Core | 18 | |
| MT 737 | Algebraic Geometry | Core | 18 | |
| | Elective I | Elective | 18 | |
| | Elective II | Elective | 18 | |
| | Total | | 90 | |
| MT 703 | Partial Differential Equations | Core | 18 | II |
| MT 707 | Algebra I | Core | 18 | |
| MT 722 | Advanced Homological Algebra | Core | 18 | |
| | Elective | Elective | 18 | |
| | Elective | Elective | 18 | |
| | Total | | 90 | |

Elective Courses for Pure Mathematics stream

| S/N | Course Code | Course Title | Credits |
|-----|-------------|--------------------------|---------|
| 1. | MT 711 | Harmonic Analysis | 18 |
| 2 | MT 712 | Numerical Linear Algebra | 18 |

| S/N | Course Code | Course Title | Credits |
|-----|-------------|--|---------|
| 3 | MT 713 | Theory of Distributions | 18 |
| 4 | MT 714 | Nonlinear Analysis | 18 |
| 5 | MT 715 | Operator Theory | 18 |
| 6 | MT 716 | Differential Geometry | 18 |
| 7 | MT 717 | Algebra II | 18 |
| 8 | MT 718 | Algebraic Number Theory | 18 |
| 9 | MT 719 | Computational Algebraic Geometry | 18 |
| 10 | MT 720 | Representation and Lie Theory | 18 |
| 11 | MT 721 | Weyl and Commutative Algebra | 18 |
| 12 | MT 723 | Field and Category Theory | 18 |
| 13 | MT 724 | Cryptography and Coding Theory | 18 |
| 14 | MT 732 | Probabilistic Graphical models | 18 |
| 15 | MT 734 | Analytic Number Theory | 18 |
| 16 | MT 735 | Elliptic Curves | 18 |
| 17 | MT 736 | Diophantine Geometry | 18 |
| 18 | MT 738 | Enumerative Combinatorics | 18 |
| 19 | MT 739 | Advanced Topics in Topology | 18 |
| 20 | MT 740 | Complex Analysis | 18 |
| 20 | MT 747 | Wavelet Theory | 18 |
| 21 | MT 758 | Advanced Graph Theory | 18 |
| 22 | MT 759 | Probability Methods in Combinatorics | 18 |
| 23 | MT 763 | Research Methods and Scientific academic | 18 |

List of Applied Mathematics Courses

| Course Code | Course Title | Status | Credits | Semester |
|-------------|---|----------|-----------|----------|
| MT 701 | Measure Theory and Integration | Core | 18 | I |
| MT 749 | Dynamical Systems | Core | 18 | |
| MT 705 | Techniques of Optimization | Core | 18 | |
| | Elective | Elective | 18 | |
| | Elective | Elective | 18 | |
| | Total | | 90 | |
| MT 703 | Partial Differential Equations | Core | 18 | II |
| MT 746 | Numerical Solutions of Differential Equations | Core | 18 | |
| MT 741 | Stochastic Processes | Core | 18 | |
| | Elective | Elective | 18 | |
| | Elective | Elective | 18 | |
| | Total | | 90 | |

Elective Courses for Applied Mathematics Stream

| S/N | Course Code | Course Title | Credits |
|-----|-------------|--|---------|
| 1 | MT 702 | Advanced Functional Analysis | 18 |
| 2 | MT 708 | Control Theory | 18 |
| 3 | MT 709 | Convex Optimization | 18 |
| 4 | MT 710 | Large Scale Optimization | 18 |
| 5 | MT 712 | Numerical Linear Algebra | 18 |
| 6 | MT 740 | Complex Analysis | 18 |
| 7 | MT 745 | Hydrodynamic Stability Theory | 18 |
| 8 | MT 747 | Wavelet Theory | 18 |
| 9 | MT 750 | Mathematical Epidemiology | 18 |
| 10 | MT 751 | Mathematical Ecology | 18 |
| 11 | MT 752 | Mathematical Immunology | 18 |
| 12 | MT 753 | Mathematical Physiology | 18 |
| 13 | MT 754 | Applied Bioinformatics | 18 |
| 14 | MT 755 | Fuzzy Sets and Fuzzy Logic | 18 |
| 15 | MT 756 | Fuzzy Engineering | 18 |
| 16 | MT 757 | Fuzzy Data Analysis | 18 |
| 17 | MT 760 | Advanced Fluid Dynamics | 18 |
| 18 | MT 762 | Mathematics for Data Science | 18 |
| 19 | MT 763 | Research Methods and academic scientific writing | 18 |

List of Courses for Mathematical Statistics Stream

| Course Code | Course Title | Status | Credits | Semester |
|-------------|--------------------------------|----------|-----------|----------|
| MT 701 | Measure Theory and Integration | Core | 18 | I |
| MT 704 | Probability and Statistics | Core | 18 | |
| MT 705 | Techniques of Optimization | Core | 18 | |
| | Elective I | Elective | 18 | |
| | Elective II | Elective | 18 | |
| | Total | | 90 | |
| MT 741 | Stochastic Processes | Core | 18 | II |
| MT 743 | Advanced Statistical Inference | Core | 18 | |
| MT 748 | Bayesian Methods for data A | Core | 18 | |
| | Elective | Elective | 18 | |
| | Elective | Elective | 18 | |
| | Total | | 90 | |

Elective Courses for Mathematical Statistics Stream

| S/N | Course Code | Course Title | Credits |
|-----|-------------|------------------------------|---------|
| 1 | MT 702 | Advanced Functional Analysis | 18 |
| 2 | MT 710 | Large Scale Optimization | 18 |
| 3 | MT 725 | Multivariate Statistics | 18 |
| 4 | MT 726 | Computational Statistics | 18 |
| 5 | MT 727 | Mathematical Insurance | 18 |

| | | | |
|----|--------|--|----|
| 6 | MT 728 | Mathematical Finance | 18 |
| 7 | MT 729 | Biostatistics | 18 |
| 8 | MT 730 | Time series Analysis | 18 |
| 9 | MT 731 | Stochastic Calculus | 18 |
| 10 | MT 732 | Probabilistic Graphical Models | 18 |
| 11 | MT 733 | Experimental Design | 18 |
| 12 | MT 742 | Linear Statistical Models | 18 |
| 14 | MT 744 | Advanced Probability Theory | 18 |
| 16 | MT 755 | Fuzzy sets and Fuzzy Logic | 18 |
| 17 | MT 756 | Fuzzy Engineering | 18 |
| 18 | MT 757 | Fuzzy data Analysis | 18 |
| 19 | MT 762 | Data Science for Mathematics | 18 |
| 20 | MT 763 | Research Methods and Scientific Academic writing | 18 |

| Course Code | Course Title | Credits |
|-------------|--------------|---------|
| MT 799 | Dissertation | 360 |

6. Programme Evaluation and Examinations

The minimum number of credits for graduation is 540, out of which 180 credits are for coursework and 360 credits for the dissertation. The coursework component consists of core and elective courses and each course will be worth 18 credits. The core courses account for 108 credits and the elective ones a minimum of 72 credits. The assessment of the coursework part consists of continuous assessment which carries 50% and the final university examination 50%, except for MT 762 which will be 100% coursework.

A student shall be required to pass a comprehensive examination before embarking on the research. The comprehensive examination consists of a written and oral component. The comprehensive examination is part of the examination (pass or fail) but does not carry any credits.

The research proposal presentation, research work and writing of dissertation are conducted and examined as per the approved *General Regulations and Guidelines for Postgraduate Programmes*. The final examination is the viva voce examination. To pass the viva voce, a candidate must score a minimum of 50%.

PhD IN MOLECULAR BOISCIENCES

1. Introduction

PhD in Molecular Biosciences (PhD MB) is a full-time four-year programme offered by the Department of Molecular Biology and Biotechnology. The programme underscores rigorous and original research and is intended to produce internationally competitive graduates with state-of-the-art knowledge and skills in molecular biosciences capable of innovative exploitation of microbial and plant bio-resources for production of desired bio-products.

2. Objectives of the Programme

The overall key objective of this degree programme is to serve the manpower needs of Tanzania and the region in the field of molecular biosciences. More specifically, the programme aims at:

- i. Expanding student knowledge and skills in molecular biosciences in the sub-fields of genomics, bioinformatics, biomedical sciences, microbiology and other related fields; and
- ii. Offering graduates entrepreneurial skills that will enable them venture into commercial biotechnological projects.

3. Entry Requirements

Applicants must be holders of a Master degree (MSc in Molecular Biology, Biochemistry, Biotechnology, Applied Microbiology, Medicine, Pharmacy, Systems Biology, Computational Biology, Bioinformatics, and Biological Sciences in related fields) or an equivalent Master degree from a higher learning Institution recognized by Tanzania Commission for Universities (TCU).

4. Programme Structure

The minimum number of credits for graduation will be 600, 200 credits for coursework while 400 credits are for dissertation. Of the coursework credits, a total of 100 will be from common core courses designed for all streams, 100 credits from core courses set special for each stream and 48 credits or more opted from the list of common electives, or other stream core courses.

5. List of Courses

Common Core Courses

| Course Code | Title | Credits |
|-------------|--------------------|---------|
| BN 700 | Scientific writing | 20 |
| BN701 | Molecular genetics | 24 |
| BN 702 | Bio-prospecting | 24 |
| BN703 | Graduate seminars | 12 |
| BN715 | Bioanalysis | 20 |
| BN 799 | Dissertation | 400 |

CORE COURSES AND ELECTIVE ONES FOR EACH STREAM

Bioinformatics Stream

Core Courses for Genomics and Bioinformatics Stream

| Course Code | Course Title | Credits |
|-------------|--|---------|
| BN 704 | Bioinformatics | 20 |
| BN 705 | Programming for life scientists | 20 |
| BN 706 | Genome-Wide association studies (GWAS) | 20 |
| BN 707 | Advanced phylogenetic analysis | 20 |

Elective Courses for Genomics and Bioinformatics Stream

| Course code | Course Title | Credits |
|-------------|--------------------------------------|---------|
| BN 708 | Biogeography and Population genetics | 20 |
| BN 709 | R in Bioinformatics | 20 |

Biomedical Sciences Stream

Core Course for Biomedical Sciences stream

| Course Code | Course Title | Credits |
|-------------|-------------------------------|---------|
| BN 711 | Principles of Epidemiology | 20 |
| BN 717 | Receptor pharmacology | 20 |
| BN 713 | Vaccinology and Immunotherapy | 20 |
| BN 714 | Vector control | 20 |

Elective Courses for Biomedical Sciences Stream

| Course Code | Course Title | Credits |
|-------------|----------------------|---------|
| BN 716 | Cancer biology | 20 |
| BN 718 | Molecular Virology | 20 |
| BN 704 | Bioinformatics | 20 |
| BN 712 | Drug delivery system | 20 |
| BN 721 | Biochemistry | 20 |

Molecular Microbiology Stream

Core Courses and Elective Ones for Molecular Microbiology Stream

| Course Code | Title | Credits |
|-------------|------------------------|---------|
| BN 718 | Molecular Virology | 20 |
| BN 719 | Molecular Mycology | 20 |
| BN 720 | Molecular Bacteriology | 20 |
| BN 721 | Biochemistry | 20 |

Elective Courses for Microbiology Stream

| Course Code | Title | Credits |
|-------------|----------------|---------|
| BN 722 | Biosystematics | 20 |
| BN 704 | Bioinformatics | 20 |

Common Elective Courses for all Streams

| Course Code | Title | Credits |
|-------------|---------------------------------|---------|
| BL 607 | Biostatistics | 24 |
| BN 710 | Entrepreneurship in Biosciences | 24 |

6. Programme Assessment and Examinations

Assessment of the coursework part will be based on Continuous Assessments (at least two tests and/or practical reports, presentations and evaluation of assignments) and University Examinations. The continuous assessment will carry 50% and the final examination will carry 50%. Before the dissertation phase, each candidate shall perform comprehensive examinations (written and oral) as per the University of Dar es Salaam Regulations and Guidelines. The general University of Dar es Salaam examination rules and regulations shall apply. Assessment of research proposals for dissertations and/or thesis will be done according to the UDSM Regulations.

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M. Mpimbo, BSc, MSc (Dar), PhD (Kent State University, USA)

M. Mkandawile, BSc (Kampala), MSc (Dar), PhD (Dar)

M. Rashid, BSc, MSc (Dar), PhD (Dar)

G. Mlay, BSc (Dar), MSc (LUT, Finland), PhD (NMAIST)

J. Makungu, BSc (Dar), MSc (LUT, Finland), PhD (NMAIST)

I. Amour, BSc (Dar), MSc, PhD (LUT, Finland)

A. Isdory, BSc (Dar), MSc (Zimbabwe), PhD (Dar)

E. Evarast, BSc, MSc, PhD (Dar)
J. Andongwisye, BSc, MSc, PhD (Dar)
S. Pitos, BSc (Dar), MSc (LUT, Finland), PhD (Sweden)

Assistant Lecturers

*W. Levens BSc, MSc (Dar)
*S. Suleiman BSc, MSc (Dar)
*U. Ngulo, BSc, MSc (Dar)
*D. Kabuche, BSc (Dar), MSc (Aberdeen, UK)
L. Shilingi, BSc (Dar), MSc (India)
*A. Mandia, BSc (Dar), MSc (India)
*E. Mrema, BEd, MSc (Dar)
I. Maduhu, BSc (Dar), MSc (India)
*Salvatory Kessy, BSc (Dar), MSc (AIMS)
Dalmas Mgani, BSc, MSc (Dar)

Tutorial Assistants

S. I. Makwaru, BSc (Dar)
F. B. Janes, BSc (Dar)

Principal Technician II

W. Lwiza, AdvDip, (DIT), PGDEEICT (Dar)

Department of Molecular Biology and Biotechnology

Lecturer and Head

S. A. A. Kassuwi, BSc (Dar), MSc (Turku), PhD (Dar)

Professor Emerita

A. K. Kivaisi, BSc (Dar), MSc (Stockholm), PhD (Dar)

Professors

***G. Y. S. Mtui, BSc (Dar), MSc, PhD (Kanazawa)
***A. M. Mshandete, Dip (Mkwawa), BSc, MSc, PhD (Dar)

Associate Professors

T. J. Lyimo, BSc, MSc, PhD (Dar)
S. L. Lyantagaye, BSc, MSc (Dar), PhD (Western Cape)
D. D. Tibuhwa, BSc, MSc, PhD (Dar)

Senior Lecturers

***K. M. M. Hosea, BSc, MSc, PhD (Dar)
L. A. Namkinga, MSc (Kharkov), PhD (Dar)

Lecturers

A. V. Makene, BSc, MSc, PhD (Dar)
R. Masalu, BSc, MSc, PhD (Dar)
D. G. Maeda, BSc (Dar), MSc (Heidelberg), PhD (Hannover)
S. A. A. Kassuwi, BSc (Dar), MSc (Turku), PhD (Dar)
G. E. Temu, BSc, MSc, PhD (Dar)
A. Mahadhy, BSc (Dar), MSc, PhD (Lund)
M. I. Hamisi, BSc, MSc (Dar), PhD (Stockholm)
M. D. Nkungu, BSc, MSc (Dar), PhD (Braunschweig)
C. B. Mpinda, BSc (Dar), MSc, PhD (Dar)

Assistant Lecturers

*S. Hamad, BSc, MSc (Dar)
* J. H. Mahamoud, BSc, MSc (Dar)
*F. N. Mpenda, BSc (Dar), MSc (NMIST)
*A. D. Mwakilili, BSc, MSc (Dar)
H. H. Myovela, BSc (Dar)

Principal Laboratory Scientist II

E. M. Sosovele, BSc (OUT), MSc, PhD (Dar)

Senior Laboratory Scientist I

P. Raymond, BSc, MSc, PhD (Dar)

Senior Laboratory Scientist II

F. Patrick Kisoka, BSc, MSc (Dar)
C. Misanga, BSc (Dar), MSc (Wageningen)
L. Mwangoka, BSc, MSc (Dar)

Senior Laboratory Scientist III

W. E. Kimaro, BSc, MSc (Dar)

Chief Technician

W. P. Shimba, FTC, BSc (Dar)

Senior Laboratory Technicia III

S. Shamte, FTC, BSc (Dar)
J. S. Sulle, FTC (Dar), BBA, (Dar)

Laboratory Technician I

M. Henry, Dip (DIT, Dar)
K. Shitindi, Dip (Dar)
A. A. Mlwisa, Dip (Dar), BSc (Dar)

Department of Physics

Senior Lecturer and Head

N. R. Mlyuka, BSc, MSc, PhD (Dar)

Senior Lecturers

I. N. Makundi, BSc, MSc (Dar), PhD (Tokyo)
M. E. Samiji, BSc, MSc (Dar), PhD (Port Elizabeth)
N. R. Mlyuka, BSc, MSc, PhD (Dar)

Lecturers

A. B. Malisa, BSc (Dar), MSc, PhD (Chalmers)
M. Mazunga, BSc, MSc (Dar), PhD (China)
M. Kumwenda, BSc, MSc (Dar), PhD (Korea)
I. Lugendo, BSc, MSc (Dar), PhD (Korea)
R. J. Mangara, BSc, MSc (Dar), PhD (China)
P. L. Mwakiyusa, BSc, MSc (Dar), PhD (Karlsruhe)
P. T.S. Limbu, BSc (Dar), MSc, PhD (China)

Assistant Lecturers

*L. Kiebacho, BSc (Dar), MSc (Nanjing)
*J. J. Tibaijuka, BSc, MSc (Dar)

*M. M. Mtangi, BSc, MSc (Dar)
*E. K. Makula, BSc, (Dar), MSc (Nanjing)
H. Sawa, BSc, MSc (Dar)
G. D. Sungi, BSc, MSc (Dar)
E. T. Shana, BSc, MSc (Dar)

Tutorial Assistants

*D. O. Mbigi, BSc, (Dar)
*Z. Mtewe, BSc (Dar)
N. E. Mmari, BSc (Dar)
W. P. Kessy, BSc (Dar)
P. Mbago, BSc (Dar)

Head of Technical Staff and Principal Laboratory Engineer II

M. K. Mtelela, AdvDip (DIT)

Laboratory Scientists I

E. Rwenyagila, BSc (Dar), MSc (Switzerland), PhD (Nigeria)

Laboratory Scientist II

H. N. Rajabu BSc (Dodoma)

Laboratory Technician II

E. Mwalongo, Dip (Arusha)

Chief Technicians

B. Kazimili, FTC (Arusha)
A. G. Nyenyembe, FTC (Arusha)

Department of Zoology and Wildlife Conservation

Associate Professor and Head

F. J. Magige, BSc, MSc (Dar), PhD (NTNU)

Associate Professor

F. J. Magige, BSc, MSc (Dar), PhD (NTNU)

Senior Lecturers

B. A. Nyundo, BSc, MSc, PhD (Dar)
C. W. Nyamkinda, BSc, MSc, PhD (Dar)

Lecturers

J. R. John, BSc (SUA), MSc (Dar) PhD (Seoul)
F. S. Nyaki, BSc, MSc (Dar), PhD (Kiel)
W. B. Kidima, BSc, MSc (Dar), PhD (UH-Manoa-Honolulu)
J. V. Katandukila, BSc, MSc (Dar), PhD (Pretoria)
F. D. Chibwana, BSc, MSc, PhD (Dar)
W. N. Mrosso, BSc, MSc, PhD (Dar)
G. D. Mukandala, BSc (Clark), MSc (USA), MSc (King's College, UK), PhD (Dublin)
E. N. Kalumanga, BSc, M.Sc. (Dar), PhD (Stockholm)
A. B. Philbert, BSc, MSc, PhD (Dar)
M. T. Shilereyo, BSc, MSc (Dar), PhD (NTNU)

Assistant Lecturers

- *M. J. Kibaja, BSc, MSc (Dar)
- *Y. J. Chuhila, BSc (Dar), MSc (Nairobi)
- *A. B. Ahungu, BSc (Dar), MSc (NM-AIST)
- *S. E. Temu, BSc, MSc (Dar)
- *J. V. Lyakurwa, BSc, (Dar), MSc (NM-AIST)
- *H. M. Mfaume, BSc, MSc (Dar)
- *S. F. Ndunguru, BSc, MSc (Dar)
- J. L. Kachungwa, BSc, MSc (Dar)
- *L. Musese, BSc, MSc (Dar)
- *S. Ibrahim, BSc, MSc (Dar)

Tutorial Assistants

- *M. Michael, BSc (CAWM-Mweka)
- A. Mujuni (Dar)
- *A. Ulime (Dar)

Chief Laboratory Scientist

- J. A. Kyomo, BSc (Dar), MSc (IHE)

Senior Laboratory Scientist III

- M. D. Chiduo, BSc, MSc (Dar)
- S. P. Nzumbi, BSc, MSc (Dar)

Senior Technician II

- S. M. Mweyo, FTC (DIT), BSc (OUT)

Lab Scientist II

- S. G. Ackrey, BSc (Dar)

Lab Scientist III

- M. B. Lisesi, BSc (Dar)
- H. M. Haucha, (Dar)

Senior Lab Assistant II

- Cordward* Edward Richard

Central Science Workshop

Manager

- I. J. Lugendo. BSc, MSc (Dar), PhD (Korea)

Deputy Manager

- E. Mapunda BSc, MSc (Dar), PhD (UniSA, SouthAfrica)

Chief Technician

- S. Musa, FTC (DTC)
- A. Ramadhan, FTC (DTC)

Laboratory Technician IV

- R. Adolf

*On study leave

**On leave of absence

***On leave of absence (Secondment)

INTRODUCTION

The College of Social Sciences has facilities in all departments and teaching units to enable students to undertake advanced work and research under supervision for the MA and PhD degrees and for the Postgraduate Diploma of the University of Dar es Salaam.

1. Purpose and Scope

The College of Social Sciences has an organized uniform structure for postgraduate courses in Geography, Information Studies, Political Science and Public Administration, Sociology and Anthropology, Statistics and Demography, aimed at career development for in-service personnel (including the University's ownstaff).

The postgraduate studies programmes incorporate all postgraduate teaching being offered by the College's Departments under a common administrative structure. Jurisdiction over the degrees to be awarded by thesis alone remains the responsibility of individual academic units.

2. Aims and Objectives

The aims and objectives of the postgraduate studies programme are to:

- i. Extend the existing generalized undergraduate studies by offering specialized teaching and instruction at an advanced level to meet Tanzania's immediate professional needs;
- ii. Create awareness of the problems of society development and a personal commitment to social reconstruction in Tanzania;
- iii. Encourage an interdisciplinary approach and joint research among all the University's social sciences departments; and
- iv. Generate teaching and research materials with direct relevance to contemporary policy issues in Tanzania.

3. Duration of the Programmes

The MA/MSc programmes offered in the College last for 18 months and some 24 months, while PhD programmes last for 48 months.

4. Course Structure

The structure includes basic work on related academic or professional disciplines, (termed as "core courses," and some elective courses to make up a particular specialization suited to each student's intended future occupation.

5. Eligibility for Admission into the Postgraduate Programmes

To be eligible for admission, the candidate must fulfill the following conditions:

- i. A good Bachelor degree with a minimum GPA of 2.7
- ii. Adequate background in social sciences subjects
- iii. Positive recommendations from the minimum of two referees

6. Teaching

The 18-month programme consists of nine months of instruction, followed by a terminal period of nine months of writing a dissertation. The instructional period is divided into two semesters, consisting of 15 teaching weeks and 2 weeks for semester examinations. The 24-month programme consists of three semesters of coursework and 6 months of dissertation.

The taught PhD programmes consist of 18 months of instruction, followed by 6 months of comprehensive examination and 24 months of research and dissertation.

7. Programme Evaluation and Examinations

(i) Coursework Assessment

Course assessment ordinarily counts for 50% towards the final marks in each course. Coursework marks include semester tests/assignments and exercises.

(ii) Final Examinations

All courses are examined separately at the end of each semester. The final grade at the end of the academic year is computed from examination and coursework grades from all semesters.

8. Failures

No candidate shall be allowed to repeat the course. A candidate failing not more than 4 units may be allowed to sit for supplementary examinations under conditions to be approved by the College Board.

9. Allocation of Courses

One-year courses are divided to give approximately half the time to required core courses (including one required common course), and half the time to elective courses selected in accordance with a student's intended specialization.

10. Dissertation

The terminal period of 9 and 24 months is directed towards the completion of Master and PhD dissertations respectively. The MA or PhD degree will not be granted until this dissertation has been satisfactorily completed.

11. Coordinators of Postgraduate Studies

There is a coordinator postgraduate programme in the College and in each Department.

PROGRAMMES OFFERED BY COLLEGE OF SOCIAL SCIENCES

| Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|---|-----------------------------|------------------|-----------|--------------------|---------------------|
| | | | | Tanzanian (TZS) | Non-Tanzanian (USD) |
| Doctor of Philosophy (PhD) in Political Science | Coursework and Dissertation | Full-time | 48 months | 3,000,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) Political Science | Thesis | Full-time | 36 months | 3,000,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) Political Science | Thesis | Part-time | 60 months | 3,000,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Public Administration | Coursework and Dissertation | Full-time | 48 months | 3,000,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Public Administration | Thesis | Full-time | 36 months | 3,000,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Public Administration | Thesis | Part-time | 60 months | 3,000,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Geography | Coursework and Dissertation | Full-time | 48 months | 3,000,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Geography | Thesis | Full-time | 36 months | 3,000,000 per year | 4,020 per year |

| Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|---|-----------------------------|------------------|-----------|--------------------|---------------------|
| | | | | Tanzanian (TZS) | Non-Tanzanian (USD) |
| Doctor of Philosophy (PhD) in Geography | Thesis | Part-time | 60 months | 3,000,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Sociology | Thesis | Full-time | 36 months | 2,500,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Sociology | Thesis | Part-time | 60 months | 2,500,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Demography | Thesis | Full-time | 36 months | 3,000,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Demography | Thesis | Part-time | 60 months | 3,000,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Information Studies | Thesis | Full-time | 36 months | 3,000,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Information Studies | Thesis | Part-time | 60 months | 3,000,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Records and Archives Management | Thesis | Full-time | 36 months | 3,000,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Records and Archives Management | Thesis | Part-time | 60 months | 3,000,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Statistics | Thesis | Full-time | 36 months | 3,000,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Statistics | Thesis | Part-time | 60 months | 3,000,000 per year | 4,020 per year |
| Master of Arts in Geography and Environmental Management | Coursework and Dissertation | Full-time | 18 months | 4,500,000 | 6,030 |
| Master of Arts in Geography and Environmental Management | Thesis | Full-time | 24 months | 6,500,000 | 8,040 |
| Master of Arts in Political Science | Coursework and Dissertation | Full-time | 18 months | 5,000,000 | 6,030 |
| Master of Arts in Political Science | Thesis | Full-time | 24 months | 6,500,000 | 8,040 |
| Master of Arts in Public Administration | Coursework and Dissertation | Full-time | 18 months | 5,000,000 | 6,030 |
| Master of Arts in Public Administration | Thesis | Full-time | 24 months | 6,500,000 | 8,040 |

| Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|--|-----------------------------|------------------|-----------|-----------------|---------------------|
| | | | | Tanzanian (TZS) | Non-Tanzanian (USD) |
| Master of Arts in Strategic and Peace Studies | Coursework and Dissertation | Full-time | 18 months | 5,000,000 | 6,030 |
| Master of Science in Statistics | Coursework and Dissertation | Full-time | 18 months | 4,500,000 | 6,030 |
| Master of Science in Statistics | Thesis | Full-time | 24 months | 6,500,000 | 8,040 |
| Master of Arts in Sociology | Coursework and Dissertation | Full-time | 18 months | 5,000,000 | 6,030 |
| Master of Arts in Sociology | Thesis | Full-time | 24 months | 6,500,000 | 8,040 |
| Master of Arts in Demography | Coursework and Dissertation | Full-time | 18 months | 4,500,000 | 6,030 |
| Master of Arts in Demography | Thesis | Full-time | 24 months | 6,500,000 | 8,040 |
| Master of Arts in Information Studies | Coursework and Dissertation | Full-time | 18 months | 5,200,000 | 6,030 |
| Master of Arts in Information Studies | Coursework and Dissertation | Evening | 18 months | 5,200,000 | 6,030 |
| Master of Arts in Information Studies | Thesis | Full-time | 24 months | 6,500,000 | 8,040 |
| Master of Arts in Project Planning and Management | Coursework and Dissertation | Evening | 18 months | 7,500,000 | 8,040 |
| Master of Research and Public Policy (MRPP) | Coursework and Dissertation | Evening | 24 months | 8,500,000 | 8,040 |
| Master of Public Health (MPH) | Coursework and Dissertation | Evening | 18 months | 7,500,000 | 6,030 |
| Master of Science in Geographical Information Systems (MSc GIS) | Coursework and Dissertation | Evening | 18 months | 6,500,000 | 6,030 |
| Master of Arts in Records and Archives Management (MA-RAM) | Coursework and Dissertation | Full-time | 18 months | 6,375,000 | 6,030 |
| Master of Arts in Records and Archives Management Programme (MA- | Coursework and Dissertation | Evening | 18 months | 6,375,000 | 6,030 |

| Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|--|------------------|------------------|-----------|-----------------|---------------------|
| | | | | Tanzanian (TZS) | Non-Tanzanian (USD) |
| RAM) | | | | | |
| Master of Arts in Records and Archives Management (MA-RAM) | Thesis | Full-time | 24 months | 6,500,000 | 8,040 |

DEPARTMENT OF GEOGRAPHY

MASTER OF ARTS IN GEOGRAPHY AND ENVIRONMENTAL MANAGEMENT (MA GEM)

1. Introduction

The MA GEM programme was established in 1998 and reviewed in 2009 and 2018. Since 1998, various changes had taken place in the University degree programmes. The review of the MA GEM programme intended to meet new career needs, market demands for postgraduate students and wide-ranging developments in the discipline as well as global development perspectives. The programme focuses on environmental matters and physical planning. It provides students with a systems perspective on environmental issues, focusing on planning processes, countrywide, international and trans-boundary issues. This programme is important for professions related to national and international environmental management by governmental agencies, municipalities, companies and NGO's.

2. Programme Objectives

- i. Preparing skilled and knowledgeable experts in environmental resources management and conservation for sustainable development.
- ii. Adhering to the UDSM vision of prioritizing postgraduate training and increasing enrollment of postgraduate students.

3. Entry Requirements

Entry requirement for successful participation in this programme will follow University of Dar es Salaam procedures for assessment of eligibility for entry into the programme. Further selection arrangement, policies and procedures with regard to allocation of places, appeals, University regulations concerning entry requirements, and selection arrangements policies shall apply.

The minimum qualification to the programme is a Bachelor degree with a score of a lower second class (GPA 2.7) in any field that requires skills in the geospatial discipline, for example Geography, Environmental Studies, Environmental Engineering, Environmental Management, Rural and Urban Planning, Surveying, Natural Resource Management, Disaster Management, Transportation and Transport Planning. For non-degree applicants to be considered for admission, they should possess a Postgraduate Diploma in similar disciplines from recognised institutions.

4. Programme Structure

The programme offers a wide range of courses related to Geography and environmental resources management. Of these, 8 are core courses and 8 are elective courses. The programme receives students who have taken a substantial amount of geographic core courses in their undergraduate who are likely to be future Geography teachers, lecturers or doing geographic research or pursuing higher learning in Geography. Students who have taken Geography with education are accepted in this programme. Students are required to take all core courses as indicated. A student may take one additional elective course from the list provided under a relevant semester or select a course from other relevant programmes. This gives a wide range of areas for which students can choose to specialize. An elective course will only be offered if at least FIVE students opt for it.

5. List of Courses

Year 1: Semester I

Core Courses

| Course Code | Course Title | Credits |
|-------------|--|---------|
| GE 630 | Geographic Thought | 12 |
| GE 631 | Climate Change and Human Adjustments | 12 |
| GE 633 | Applied Geographical Information Systems | 12 |
| DE 628 | Population, Resources and Environment | 12 |

Elective Courses Semester I

| Course Code | Course Title | Credits |
|-------------|---|---------|
| GE 637 | Tourism and Development | 12 |
| GE 639 | Urban and Rural Development Linkages | 12 |
| GE 641 | Environmental Disaster Management and Sustainable Human Development | 12 |
| GE 643 | Water Resources, Planning and Management | 12 |

Core Courses Semester II

| Course Code | Course Title | Credits |
|-------------|---|---------|
| GE 634 | Spatial Development Theories and Environmental Resources Management | 12 |
| GE 632 | Geographical Research Methods | 12 |
| GE 636 | Integrated Natural Resources Management | 12 |
| GE 645 | Strategic Urban Environmental Management | 12 |

Elective Courses Semester II

| Course Code | Course Title | Credits |
|-------------|--|---------|
| GE 635 | Environmental Conservation Policies and Strategies | 12 |
| GE 640 | Urban Planning and Management in a Globalizing World | 12 |
| GE 642 | Medical Geography | 12 |
| GE 644 | Environment, Food and Development | 12 |

Year 2: Semester I

| Course Code | Course Title | Credits |
|-------------|--------------|---------|
| GE 699 | Dissertation | 60 |

6. Programme Evaluation and Examinations

The programme assessment will be based on the combination of continuous assessment (coursework) and final examination. The coursework is set to have 50% and the final written examination carries 50%. The dissertation shall be marked out of 100%. To qualify for university examinations, the student should complete coursework assessment which comprises attending not less than 75% of lectures, practicals and seminars as well as assignments and tests.

MASTER OF ARTS IN PROJECT PLANNING AND MANAGEMENT (MA PPM)

1. Introduction

Master of Arts in Project Planning and Management (MAPPM) at the department of Geography, University of Dar es Salaam builds knowledge and skills in the planning and management of development projects and programmes. It is designed to deepen a critical understanding of the strategies, processes, techniques, and issues involved in taking ideas for development and turning them into practical realities with identifiable

outcomes and benefits. The programme provides an excellent basis for career enhancement for those with interest and experience in projects for development. The programme covers both introductory and advanced knowledge of project planning and management, and provides skills to manage a complex project within a specific time-frame, ability to monitor resources and manage project information and conflicts.

2. Objectives of the Programme

- i. Producing competent and skilled experts and professionals in project planning and management.
- ii. Fulfilling the UDSM vision of prioritizing postgraduate training and increasing enrollment of postgraduate students.

3. Entry Requirements

The minimum qualification to the programme is a Bachelor degree with a score of a lower second class (GPA 2.7) in any related field that requires skills in Geography, Environmental Studies, Civil, Geotechnical and Environmental Engineering, Environmental Management, Rural and Urban Planning, Surveying, Natural Resource Management, Disaster Management, Transportation and Transport Planning. For those without a degree, the University of Dar es Salaam regulation will apply.

4. Programme Structure

The Master of Arts in Project Planning and Management is a multidisciplinary evening programme structured into 180 credits comprising 72 core credits, 60 dissertation credits, and 48 credits derived from elective courses. The programme receives students from a variety of disciplines ranging from Geography, Economics, Business, Information, Sociology, Engineering and related disciplines which have projects to be managed. It aims at creating project managers and can work in monitoring and evaluation, resource mobilization as well as impact assessment, and project valuation. In each semester, a student will be required to take 3 core courses and 2 elective courses. The programme duration is 18 months divided into two semesters. The distribution of courses is as shown in the table below:

5. List of Courses

Year 1: Semester I

Core Courses Semester I

| Course Code | Course Title | Credits |
|-------------|--|---------|
| PM 650 | Project Planning and Implementation | 12 |
| PM 652 | Project Appraisal and Techniques | 12 |
| PM 655 | Project Formulation and Evaluation of Policies | 12 |
| PM 661 | Strategic Project Management | 12 |

Elective Courses

Semester I (choose any two)

| Course Code | Course Title | Credits |
|-------------|---|---------|
| PM 656 | Resource Mobilization and Project Financing | 12 |
| PM 664 | Project Management Information Systems | 12 |
| PM 668 | Rural Development and Community Empowerment | 12 |

Core Courses Semester

| Course Code | Course Title | Credits |
|-------------|---|---------|
| PM 659 | Impact Measurement and Evaluation Methods | 12 |
| PM 665 | Principles and Theories of Monitoring and Evaluation | 12 |
| PM 667 | Professional Skills and Field Practice for Project Managers | 12 |
| PM 669 | Research Methodology | 12 |

Elective Courses

Semester II (choose any two)

| Course Code | Course Title | Credits |
|-------------|---|---------|
| PM 653 | Participatory Planning and Appreciative Inquiry | 12 |
| PM 658 | Development Projects and Disaster Management | 12 |
| PM 663 | Social Entrepreneurship | 12 |

Year 2: Semester II

| Course Code | Course Title | Credits |
|-------------|--------------|---------|
| GE 699 | Dissertation | 60 |

6. Programme Evaluation and Examinations

The programme assessment will be based on the combination of continuous assessment (coursework) and final examination. All courses offered during the semester shall be examined at the end of that semester unless the Principal of the College gives permission otherwise. In this regards, assessment of the student's progress shall be based on the following grading system:

A: 70-100

B+: 60-69

B: 50-59

C: 40-49

D: 35-39

E: 0-34

For the purpose of degree computation, these grades shall have the values of: A = 5 points, B+= 4 points, B = 3 points, C = 2 points, D = 1 points, and E = 0 point. The coursework is set to have 50% and the final written examination carries 50%. The dissertation shall be marked out of 100%.

At the end of every semester of the year of study, there shall be a final university examination for which only those who passed course assessments shall be allowed to sit. Moreover, all candidates shall abide by all examination regulations of the University of Dar es Salaam. Any irregularity in the conduct of examination will disqualify a candidate from studies. Generally, University of Dar es Salaam examination format will be followed.

MASTER OF SCIENCE IN GEOGRAPHICAL INFORMATION SYSTEMS (MSc GIS)

1. Introduction

On the beginning of the 21st Century, the Geography discipline has undergone accelerated intellectual growth as witnessed by the diversity in academic specialization. Following the recent advancement in technology and innovations, the Department of Geography has integrated the fast growing spatial science discipline, the Geographical Information Systems (GIS), in teaching, research and knowledge exchange. The department has now developed a spatial science programme, MSc GIS, directed towards addressing social problems at various spatial scales. The course offers hands-on training using up-to-date software and provides the opportunity to achieve deep theoretical understanding of spatial phenomena and the basics of GIS, database management, cartography and advanced knowledge of GIS and Remote sensing methodologies and applications.

MSc GIS programme serves the twin domain of Geography as a science and arts discipline. The programme also resumes a traditional role of Geography of serving students at UDSM with both Arts and Science background from the three major colleges of Social Sciences, Natural Sciences and Engineering. After completing the programme, a student will have gained theoretical and practical knowledge about the planning, implementation and handling of GIS within diverse disciplines. These skills are highly useful within all areas concerned with spatial phenomena, such as natural and social sciences, medicine, engineering, hydrology, agriculture, forestry, climate change and in spatial planning at local, regional and national levels.

2. Objectives of the Programme

- i. Producing GIS competent and skilled experts and professionals.
- ii. Fulfilling the UDSM vision of prioritizing postgraduate training and increasing enrollment of postgraduate students.

3. Entry Requirements

The minimum qualification to the programme is a Bachelor degree with a score of a lower second class (GPA 2.7) in any field that requires skills in the geospatial discipline for example Geomatics, Geoinformatics, Geography, Environmental Studies, Civil, Geotechnical and Environmental Engineering, Environmental Management, Rural and Urban Planning, Surveying, Natural Resource Management, Disaster Management, Transportation and Transport Planning . For non-degree applicants to be considered for admission, they should possess a Postgraduate Diploma in similar disciplines from a recognised and respected institutions.

4. Programme Structure

Master of Science in Geographical Information Systems (MSc GIS) programme is an 18-month evening programme. The programme is structured in 180 credits, comprising 96 credits for core courses, 24 credits for elective courses and 60 credits for dissertation. The programme takes students from a variety of background mainly in computer science, geography, engineering, geology and other related disciplines. Students taking this programme are aimed at working as GIS experts needed in many offices as a planning, research tool, land use, resource and environment change mapping and integration of social economic attributes assessment. Those who have some GIS or geographic understanding have an added advantage and they can do well as GIS scientists and some can do applied GIS. Students will take four core courses and a minimum of one elective course for each semester. The third semester is reserved for dissertation

5. List of Courses

Year 1: Semester I

Core Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| GE 646 | Applied Quantitative Methods in Geography | 12 |
| GE 670 | Advances in GIS | 12 |
| GE 672 | Methods in Geographical Information Systems | 12 |
| GE 674 | Remote Sensing Methods | 12 |

Elective Course Semester I

| Course Code | Course Title | Credits |
|-------------|--|---------|
| GE 680 | Advanced Web Mapping | 12 |
| GE 675 | Cartography and Geo-visualization | 12 |
| DC 610 | Advanced Object Oriented Programming | 12 |
| DC 623 | Organization and Management of Information Systems | 12 |
| DC 632 | Advanced Database Management Systems | 12 |

Core Courses Semester II

| Course Code | Course Title | Credits |
|-------------|--|---------|
| GE 632 | Geographical Research Methods | 12 |
| GE 671 | Advanced Geographical Information Systems | 12 |
| GE 673 | Geospatial Decision Support Systems | 12 |
| GE 678 | Digital Image Processing and Interpretations | 12 |

Elective Course Semester II

| Course Code | Course Title | Credits |
|-------------|---|---------|
| GE 676 | Spatial Change Modelling | 12 |
| GE 677 | Participatory Geographical Information Systems (PGIS) | 12 |
| GE 664 | Project Information Management | 12 |
| DC 611 | Open Source Software Development | 12 |

Year 2: Semester I

| Course Code | Course Title | Credits |
|-------------|--------------|---------|
| GE 699 | Dissertation | 60 |

6. Programme Evaluation and Examinations

The programme assessment will be based on the combination of continuous assessment (coursework) and final examination. The coursework is set to have 50% and the final written examination carries 50%. The dissertation shall be marked out of 100%. The general University of Dar es Salaam examination format will be followed.

MASTER BY THESIS

This programme involves students who want to do their Master programme by research only. They can come from a variety of disciplines but wanting to do a geographic related research topic. Those who intend to work in research institutions or institutions of higher learning can opt for this programme. Students with high GPAs and Geography related concept notes can be selected easily into this programme.

DOCTOR OF PHILOSOPHY IN GEOGRAPHY (PhD GEOGRAPHY) BY COURSE WORK AND DISSERTATION

1. Introduction

The PhD by coursework and dissertation programme in the Department of Geography, at the University of Dar es Salaam, is unique in Tanzania and in the broader eastern Africa region. The PhD by coursework and dissertation programme not only increases enrolment and offers education at affordable cost, but also focuses on a balance between basic and demand-driven geographical science to make knowledge creation relevant to the country and to the continent. Graduates of PhD in Geography will have acquired: ability to create and interpret new knowledge through original research, or any other advanced publications; a systematic understanding of a substantial body of knowledge which is at the forefront of the academic discipline; increasing creativity of solving critical problems through research and innovation; ability to deal with complex ethical and professional issues and make informed judgments on issues not addressed by current professional and/or ethical codes and practice.

2. Objectives of the Programme

- i. Preparing skilled, knowledgeable and competent professionals of higher learning institutions and experts in the civil service and private sectors.
- ii. Adhering to the UDSM vision of prioritizing postgraduate training and increasing enrollment of postgraduate students.

3. Entry Requirements

The applicant must have completed a good Master degree in Geography or any related field from a recognized university.

4. Programme Structure

A time schedule of the PhD in Geography by coursework and dissertation is four (4) years, including 208 weeks of lectures and examined courses, a comprehensive examination, writing and presentation of a research proposal, field work, data analysis, writing of the dissertation and viva voce. The coursework will be completed in the first semester of the second year. The second semester of the second year of study will

be set aside for the comprehensive examination (8 weeks) and preparation and presentation of the PhD research proposal (31 weeks). The third and fourth academic years of the programme will be devoted to fieldwork, data analysis, writing and defence of the dissertation.

Required Coursework Credits for Each PhD student

| Course category | Number of Courses | Credits per course | Total Credits |
|------------------|-------------------|--------------------|---------------|
| Core Courses | 5 | 24 | 120 |
| Elective Courses | 3 | 24 | 72 |
| Total | 8 | | 192 |

**Two core courses, and at least one elective course for semester I and II of 1st year; and one core course, with at least one elective one for 1st semester of 2nd year.*

5. List of Courses

Core Courses

| Course Code | Course Title | Credits |
|-------------|--|---------|
| GE.700 | The Philosophy of Geography | 12 |
| GE.701 | The Biophysical Environment | 12 |
| GE.702 | Human Geography and Patterns of Human Development | 12 |
| GE.703 | Advanced Geographical Research Methods | 12 |
| GE.706 | Advanced Geographical Information Systems Techniques | 12 |

Elective Courses in Physical Geography

| Course Code | Course Title | Credits |
|-------------|--|---------|
| GE 704 | Orthodox and Contemporary Theories in Physical Geography | 12 |
| GE 708 | Environmental Policy and Natural Resource Management | 12 |
| GE 710 | Water Resources Planning, Development and Management | 12 |
| GE 714 | Land Use Planning and Management | 12 |

NB: Students who wish to specialize in Physical Geography will opt for any three (3) of the above indicated courses.

Elective Courses in Human Geography

| Course Code | Course Title | Credits |
|-------------|--|---------|
| GE 705 | Orthodox and Contemporary Theories in Human Geography | 12 |
| GE 707 | Spatial Interaction and Regional Development | 12 |
| GE 709 | Migration and Environmental Impacts in Africa | 12 |
| GE 715 | Environmental Disaster Risk Management and Development | 12 |

NB: Students who wish to specialise in Human Geography will opt for any three (3) of the above indicated courses.

Elective Course in Skills-Based Geography

| Course Code | Course Title | Credits |
|-------------|---|---------|
| GE 716 | Techniques and applications of Remote Sensing | 12 |

NB: Students who wish to specialise in Skills-Based Geography will opt for the above indicated course.

Elective Courses from Outside of the Department*

| Course Code | Course Title | Credits |
|-------------|--|---------|
| PS 729 | Conflict Management and Resolution in Africa | 12 |
| EC 719 | Environmental Economics I | 12 |
| EC 720 | Environmental Economics II | 12 |

**One course is required for assessment*

6. Programme Evaluation and Examinations

During coursework phase, assessment will be based on assignments, tests and the University Examination whereas the write-up phase will be assessed through comprehensive examination, research proposal and dissertation.

All courses offered during the semester shall be examined at the end of that semester unless the Principal of the College gives permission otherwise. In this regards, assessment of the student's progress shall be based on the following grading system:

A: 70-100
B+: 60-69
B: 50-59
C: 40-49
D: 35-39
E: 0-34.

For purposes of degree computation, these grades shall have the value of: A = 5 points, B+= 4 points, B = 3 points, C = 2 points, D = 1 points, and E = 0 point. The pass mark in each of the course taken shall be "B". The mark for "absolute fail" shall be a "C" Grade. Course Assessment (CA) will comprise 50% similar to the University Examination (UE).

PhD BY THESIS

This aims at training students who want to do geographic related research of higher level where contribution to knowledge production (thesis) is a condition for graduation. It accepts students from different background, but with concept notes that are geographic related.

DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

The following postgraduate programmes are offered by the Department of Sociology and Anthropology.

MASTER OF ARTS IN SOCIOLOGY (MA SOCIOLOGY)

1. Objective of the Programme

Sociology as a discipline focuses on a "Critical Science of Society". The subject matter is on development, structure and functioning of human society and social problems. Master of Arts in Sociology (MASO) orients students to the study of human social relationships and institutions and offers an understanding of how both human action and consciousness shape and are shaped by surrounding cultural and social structures.

2. Entry Requirements

The programme targets applicants with first degree in any social science related disciplines. The University of Dar es Salaam minimum entry qualification for a taught Master programme is a pass degree (GPA of 2.7). For non-degree applicants to be considered for admission they should possess an Advanced Diploma and a Postgraduate Diploma. The status of programme is full-time, lasting for 18 months.

3. Assessment

The assessment for MASO degree includes coursework, final examination and dissertation writing. Specifically, the programme assessment is based on the combination of continuous assessment (coursework) and final examination. The coursework is set to have 50% and the final written examination carries 50%. The dissertation shall be marked out of 100%.

4. List of Courses

Core Courses

| Course Code | Course Title | Credits | Semester |
|-------------|---|---------|----------|
| SO 604 | Advanced Classical Sociological Theories | 12 | I |
| SO 606 | Advanced Qualitative Research Methods | 12 | I |
| SO 605 | Advanced Contemporary Sociological Theories | 12 | II |
| SO 607 | Advanced Quantitative Research Methods | 12 | II |

Core Courses

| Course Code | Course Title | Credits | Semester |
|-------------|--------------|---------|----------|
| SO 699 | Dissertation | 60 | III |

Specialization I: Rural Development

| Course Code | Course Title | Credits | Semester |
|-------------|---|---------|----------|
| SO 615 | Rural Environment and Resource Use | 12 | I |
| SO 654 | Rural Development Policy and Planning | 12 | I |
| SO 655 | Advanced Studies in Community Development | 12 | II |
| SO 657 | Demographic Change and Rural Development | 12 | II |

Specialization II: Social Welfare and Administration

| Course Code | Course Title | Credits | Semester |
|-------------|------------------------------------|---------|----------|
| SO 662 | Social Security and Policy Scheme | 12 | I |
| SO 642 | Medical Anthropology and Sociology | 12 | I |
| SO 661 | Social Welfare and Administration | 12 | II |
| SO 665 | Social Policy Methods | 12 | II |

Elective Courses

| Course Code | Course Title | Credits | Semester |
|-------------|------------------------------------|---------|----------|
| SO 641 | Gender Relations and Population | 12 | I |
| SO 602 | Graduate Seminar | 12 | I |
| LW 652 | Social Security Law | 12 | I |
| MS 601 | Organization Theory and Management | 12 | I |
| LW 628 | Human Rights Law | 12 | II |
| MK 611 | Entrepreneurship Development | 12 | II |

MASTER OF PUBLIC HEALTH (MPH)

1. Objective of the Programme

The Master of Public Health (MPH) programme is designed to offer students with knowledge and analytical skills to promote public health and disease prevention. MPH focuses on a multidisciplinary approach to public health issues emphasizing on the role of socio-economic, behavioral, biological and societal determinants of health and diseases.

2. Entry Requirements

The minimum entry requirements of the programme include a Bachelor degree from any recognized University with a GPA of 2.7 and above with a background in social sciences related discipline, biological sciences, and environmental sciences. Also, it targets doctors, dentists, pharmacists or graduate nurses from a recognized university with at least a lower second class in their final university examinations. The programme is an evening class running from 17pm to 20pm Monday to Friday. The programme duration is 18 months.

3. Assessment

The programme assessment is based on the combination of continuous assessment (coursework) and final examination. The coursework is set to have 50% and the final written examination carries 50%. The dissertation shall be marked out of 100%.

4. List of Courses

| Course Code | Course Title | Credits | Semester |
|-------------|--|---------|----------|
| MPH 601 | Foundations of Public Health | 12 | I |
| MPH 602 | Epidemiology and Biostatistics | 12 | I |
| MPH 603 | Health Services Organization and Management | 12 | I |
| MPH 604 | Health Promotion and Behaviour Change | 12 | I |
| MPH 605 | Health Financing and Health Economics | 12 | I |
| MPH 606 | Public Health Research Methods | 12 | II |
| MPH 607 | Health Policy Analysis | 12 | II |
| MPH 608 | Health Information for Health Systems Management | 12 | II |
| MPH 609 | Health Systems Analysis | 12 | II |
| MPH 610 | Contemporary Public Health Issues | 12 | II |
| MPH 699 | Dissertation | 60 | III |

DOCTOR OF PHILOSOPHY IN SOCIOLOGY (PhD SOCIOLOGY) BY THESIS

1. Introduction

The department of sociology offers a three years PhD programme by thesis (360 Credits).

2. Entry Requirements

Subject to the General Regulations and Guidelines for Postgraduate Study Programmes of the University of Dar es Salaam, the minimum entry qualification is a BA degree from any recognized or equivalent with a GPA of 3.8 and 4.0 for undergraduate and postgraduate study. The candidate must have strong background in Sociological theory.

3. Assessment

The assessment in the programme includes research proposal which undergoes a process of approval at the respective department (through presentation) and college levels. It also includes a pre-viva voce and viva voce examination.

4. Structure and Delivery

The PhD (Sociological) is by thesis.

DEPARTMENT OF POLITICAL SCIENCE AND PUBLIC ADMINISTRATION

The following postgraduate programmes are offered by the Department of Political Science and Public Administration:

MASTER OF ARTS IN POLITICAL SCIENCE

1. Objective of the Programme

MA in Political Science seeks to develop advanced theoretical knowledge and practical skills relating to understanding the nature and structure of political systems and political behaviour and their interactions with socioeconomic institutions, both at national and international levels.

2. Target Group

The target group of the programme broadly includes researchers and practitioners who want to build advanced competences related to local and international politics and political analysis. The program broadly targets graduates in fields including political analysis, political parties and party politics, electoral institutions, local government and governance, state-civil society relations, democracy and democratic process, political economy, diplomacy and foreign relations, as well as political systems and ecology.

3. Structure and Delivery

The MA in Political Science allows students to concentrate on either International Relations or Politics. Students pursuing MA in Political Science are required to take 180 credits consisting of 120 coursework credits and 60 credits for the dissertation as detailed below:

| S/N | Details | Credits |
|--------------|---|------------|
| 1 | Core Courses | 48 |
| 2 | Major Area of Concentration: Core Courses | 24 |
| 3 | Electives | 48 |
| 4 | Dissertation | 60 |
| Total | | 180 |

Each course, other than the dissertation, carries 12 credits. The dissertation carries 60 credits. The Major Areas of Concentration are International Relations and Politics.

4. List of Courses

Core Courses: 48 Credits

| Course Code | Course Title | Credits |
|-------------|--|---------|
| PS 601 | Qualitative Methods of Social Science Research | 12 |
| PS 603 | Political Analysis | 12 |
| PS 604 | Political Theory | 12 |
| PS 618 | International Relations: Approaches and Issues | 12 |

i) International Relations Concentration

Core Courses: 24 Credits

| Course Code | Course Title | Credits |
|-------------|--|---------|
| PS 620 | Public International Law | 12 |
| PS 622 | International Political Economy | 12 |
| PS 628 | Security, Conflict and War | 12 |
| PS 626 | African International Relations | 12 |

Elective Courses: 48 Credits

| Course Code | Course Title | Credits |
|-------------|--|---------|
| PS 614 | Human Rights and Human Rights Law | 12 |
| PS 619 | International Organization | 12 |
| PS 620 | Regional Integration | 12 |
| PS 629 | Foreign Policy and Diplomacy | 12 |
| PS 630 | Conflict Resolution and Peace Studies | 12 |
| PS 633 | Conflict Management and Resolution in Africa | 12 |
| PS 650 | Topics/Directed Study | 12 |

Dissertation: 60 Credits

| Course Code | Course Title | Credits |
|-------------|--------------|---------|
| PS 699 | Dissertation | 60 |

ii) Politics Concentration

Core Courses: 24 Credits

| Course Code | Course Title | Credits |
|-------------|---------------------------------|---------|
| PS 607 | Comparative Politics | 12 |
| PS 611 | Contemporary Political Thought | 12 |
| PS 614 | African Political Thought | 12 |
| PS 614 | Democratic Theory and Practical | 12 |

Elective Courses: 48 Credits

| Course Code | Course Title | Credits |
|--------------------|---|----------------|
| PS 639 | Area Studies: One of the following – America, Europe, Asia, Middle East, China, Caribbean and Latin America | 12 |
| PS 610 | The State and the Economy | 12 |
| PS 611 | Gender and Governance | 12 |
| PS 616 | Identity and Politics | 12 |
| PS 624 | Classical Political Thought | 12 |
| PS 634 | Issues in Comparative Politics | 12 |
| PS 635 | Islamic Political Thought | 12 |
| PS 638 | Selected Issues in Political Thought | 12 |
| PS 650 | Special Topics/Directed Study | 12 |

Dissertation: 60 Credits

| Course Code | Course Title | Credits |
|--------------------|---------------------|----------------|
| PS 699 | Dissertation | 60 |

5. Entry Requirements

The minimum qualification for entry to the programme is a Bachelor degree with a score of a lower second class (GPA 2.7) in any field that requires skills in the political science disciplines such as politics, international relations and public administration. For non-degree applicants to be considered for admission, they should possess a Postgraduate Diploma in similar disciplines from recognised institutions.

6. Assessment

The programme assessment will be based on the combination of continuous assessment (coursework) and final examination. The coursework is set to have 50% and the final written examination carries 50%. The dissertation shall be marked out of 100.

MASTER OF ARTS IN PUBLIC ADMINISTRATION

1. Objective of the Programme

The objective of MA in Public Administration programme is to offer advanced knowledge and skills that graduate from different public and private organizations require to become the best architects of corporate management and administrative systems and strategies. The programme provides challenging learning opportunities that will transform learners into strategic reformers of modern organizations and organizational process to enhance administrative efficiency and effectiveness as well as understanding the principles and best practices for managing the relationship between governmental. and non- government institutions as they interact in the process of making and implementing public policies as well as delivery public goods and services.

2. Target Group

The target group for the MA Public Administration programme is researchers and practitioners who are employed in the government and private institutions that contribute to policy implementation and service delivery. The targets are the individuals aspiring to grow into corporate-levels of the organizations that involve making challenging decisions and managing as well as coordinating the key resources in complex organizational environments.

3. Structure and Delivery

Students pursuing MA in Public Administration are required to take 180 credits consisting of 120 coursework credits and 60 credits for the dissertation as detailed below:

| S/N | Details | Credits |
|--------------|--------------------|----------------|
| 1 | 5 Core Courses | 60 |
| 2 | 5 Elective Courses | 06 |
| 3 | Dissertation | 60 |
| Total | | 180 |

Each course, other than the dissertation, carries 12 credits. The dissertation carries 60 credits.

4. List of Courses

Core Courses: 60 Credits

| Course Code | Course Title | Credits |
|-------------|---|---------|
| PS 601 | Qualitative Methods of Social Science Research | 12 |
| PA 603 | Administrative Theory (Models, Concepts, Paradigms) | 12 |
| PA 604 | Public Finance Management | 12 |
| PA 605 | Public Policy | 12 |
| PA 606 | Human Resource Management | 12 |

Elective Courses: 60 Credits

| Course Code | Course Title | Credits |
|-------------|-------------------------------------|---------|
| PA 606 | Corporate Governance | 12 |
| PA 607 | Administrative and Labour Law | 12 |
| PA 617 | Local Governance | 12 |
| PS 611 | Gender and Governance | 12 |
| PA 618 | Organization Development and Change | 12 |
| PA 625 | Managing Public Services | 12 |

Dissertation: 60 Credits

| Course Code | Course Title | Credits |
|-------------|--------------|---------|
| PS 699 | Dissertation | 60 |

5. Entry Requirements

The minimum entry qualification for the programme is a Bachelor degree with a score of a lower second class (GPA 2.7) in any field that requires skills in the political science disciplines such as politics, international relations and public administration. For non-degree applicants to be considered for admission, they should possess a Postgraduate Diploma in similar disciplines from recognised institutions.

6. Assessment

The programme assessment will be based on the combination of continuous assessment (coursework) and final examination. The coursework is set to have 50% and the final written examination carries 50%. The dissertation shall be marked out of 100%.

MASTER OF RESEARCH AND PUBLIC POLICY (MRPP)

1. Objective of the Programme

The programme provides advanced knowledge and skills in doing policy relevant research and using research to improve public policies. The MRPP programme intends to produce high quality graduates equipped to pursue scholarly research that is policy relevant and contribute to evidence-informed policy practice. It also intends to advance scholarship in policy research and support policy institutions including research institutions, universities and think tanks to have impact on public policy and development.

2. Target Group

MRPP is a multidisciplinary programme that targets graduates from all academic backgrounds. However, the enrolees need to be open minded and flexible to develop interest in and use research (as policy practitioners) to influence, inform or shape public policy through their work. The ideal enrolees are those who work in research and policy institutions. These include national and sub-national government bodies, think tanks, advocacy organizations, media, private sector, regional, and international organizations.

3. Structure and Delivery

The Master of Research and Public Policy is a two-year evening programme covered in four semesters that includes field experience and research preparation. The programme entails five courses in each semester during the first year. This is followed by a long break for field experience in a policy or research institution where students will refine research ideas and start data collection. In the second year, three

courses are offered, while the rest of the time is devoted to dissertation research. Core courses address essential competencies needed by all students whether they choose either the Research or Policy Practice pathway.

Students pursuing MA in Research and Public Policy are required to take 204 credits consisting of 156 coursework credits and 48 credits for the dissertation as detailed below:

| S/N | Details | Credits |
|--------------|-------------------|------------|
| 1 | 10 Core Courses | 120 |
| 2 | 3 Pathway Courses | 36 |
| 3 | Dissertation | 48 |
| Total | | 204 |

Each course, other than the dissertation, carries 12 credits. The dissertation carries 48 credits.

4. List of Courses

Core Courses: 120 Credits

| Course Code | Course Title | Credits |
|-------------|--|---------|
| RP 601 | Qualitative Research Methods for Public Policy | 12 |
| RP 602 | Quantitative Research Methods for Public Policy | 12 |
| RP 603 | Public Policy Development and Analysis | 12 |
| RP 604 | Governance & Politics of Public Policy | 12 |
| RP 605 | Social Science Foundations for Public Policy | 12 |
| RP 609 | Economics for Public Policy | 12 |
| RP 613 | Ethics in Research and Public Policy | 12 |
| RP 614 | Research Policy and Public Interface | 12 |
| RP 615 | Gender, Social Diversity, Equity and Public Policy | 12 |
| PR 616 | Leadership and Public Policy | 12 |

5. Research Pathway: 36 Credits

| Course Code | Course | Course |
|-------------|-------------------------------|--------|
| RP 606 | Advanced Quantitative Methods | 12 |
| RP 607 | Advanced Qualitative Methods | 12 |
| RP 608 | Applied Policy Analyses | 12 |

Policy Practice Pathway: 36 Credits

| Course Code | Course Title | Credits |
|-------------|--------------------------------------|---------|
| RP 610 | Contemporary Issues in Public Policy | 12 |
| RP 611 | Political Economy of Public Policy | 12 |
| RP 612 | Global Context of Public Policy | 12 |

Dissertation: 48 Credits

| Course Code | Course Title | Credits |
|-------------|--------------|---------|
| RP 699 | Dissertation | 48 |

6. Entry Requirements

Subject to the General Regulations and Guidelines for Postgraduate Study Programmes of the University of Dar es Salaam, the minimum entry requirement for the MRPP program is a Master degree or an upper second-class Bachelor degree (or its equivalent GPA), or higher; or Bachelor degree of a lower second class, but accompanied by either, at least two years of work experience in a research or policy field, or another postgraduate diploma.

7. Assessment

The assessment in the programme includes a series of continuous assessment activities (50%) and end of the semester university examination (50%). Upon successful completion of the coursework and continuous assessment requirements, students will conduct research and write a dissertation that will be examined out of 100%.

MASTER OF ARTS IN STRATEGIC AND PEACE STUDIES

1. Objective of the Programme

Training a cadre of high-level human resources to acquire advanced knowledge in conflict resolution and national defence and security. Priority will be given to capacity development in producing objective and rigorous analysts who can easily and promptly respond to conflict situations and deal with needs of defence and security policy research and decision-making.

2. Target Group

The programme targets officials who are working in peace, security, and defense institutions. It is also appropriate for officials who are developing competencies for managing strategic and high-level operations in international peacekeeping and humanitarian response institutions.

3. Structure and Delivery

The MA in Strategic and Peace Studies allows students to concentrate on either Strategic Studies or Peace Studies. Students are required to take 180 credits consisting of 120 coursework credits and 60 credits for the dissertation as detailed below:

| S/N | Details | Credits |
|-----|--------------------|------------|
| 1 | 5 Core Courses | 60 |
| 2 | 5 Elective Courses | 60 |
| 3 | Dissertation | 60 |
| | Total | 180 |

Each course, other than the dissertation, carries 12 credits. The Research Paper carries 60 credits. The coursework section is divided into core courses and two areas of concentration, namely Strategic Studies and Peace Studies. Each student will be required to take five core courses and five elective ones, two of which must come from their area of concentration.

4. List of Courses

i) Core Courses: Strategic Studies Concentration 60 Credits

| Course Code | Course Title | Credits |
|-------------|---|---------|
| PS 601 | Principles and Methods in Social Science Research | 12 |
| PS 618 | International Relations: Approaches and Issues | 12 |
| PS 628 | Security, Conflict and War | 12 |
| SS 604 | Defense and Security: Policy and Strategy | 12 |
| PA 605 | Public Policy | 12 |

ii) Core Courses: Peace Studies Concentration 60 Credits

| Course Code | Course Title | Credits |
|-------------|--|---------|
| PS 601 | Qualitative Methods of Social Science Research | 12 |
| PS 630 | Conflict Resolution and Peace Studies | 12 |
| PS 633 | Conflict Management and Resolution in Africa | 12 |
| SS 608 | Global Security Management | 12 |
| SS 616 | Post Conflict Reconstruction | 12 |

Elective Courses: 60 Credits

| Course Code | Course Title | Credits |
|--------------------|--|----------------|
| SS 602 | Environment, Resources, and Conflict | 12 |
| SS 604 | Defense and Security: Policy and Strategy | 12 |
| SS 607 | Comparative Military Systems | 12 |
| SS 608 | Global Security Management | 12 |
| SS 611 | Arms Control and Disarmament | 12 |
| SS 614 | Regional Security | 12 |
| SS 616 | Post-Conflict Reconstruction | 12 |
| SS 617 | Civil Military Relations | 12 |
| SS 618 | Terrorism and Counter Terrorism | 12 |
| SS 619 | Migration and Refugees | 12 |
| PS 615 | Democratic Theory and Practice | 12 |
| PS 618 | International Relations: Approaches and Issues | 12 |
| PS 620 | Public International Law | 12 |
| PS 628 | Security, Conflict and War | 12 |
| PS 611 | Gender and Governance | 12 |
| PS 614 | Human Rights and Human Rights Law | 12 |
| PS 616 | Identity and Politics | 12 |
| PS 629 | Foreign Policy and Diplomacy | 12 |
| PS 630 | Conflict Resolution and Peace Studies | 12 |
| PS 633 | Conflict Management and Resolution in Africa | 12 |
| PA 605 | Public Policy | 12 |
| LW 602 | International Humanitarian Law | 12 |

Dissertation: 60 Credits

| Course Code | Course Title | Credits |
|--------------------|---------------------|----------------|
| PS 699 | Dissertation | 60 |

5. Entry Requirements

The minimum qualification to the programme is a Bachelor degree with a score of a lower second class (GPA 2.7) in any field that requires skills in strategic discipline for example Political Science, Public Administration, Sociology, Economics, Geography, Natural Resource Management, Law, and Business Administration. For non-degree applicants to be considered for admission, they should possess a Postgraduate Diploma in similar disciplines from recognised institutions.

6. Assessment

The programme assessment will be based on the combination of continuous assessment (coursework) and final examination. The coursework is set to have 50% and the final written examination carries 50%. The dissertation shall be marked out of 100.

DOCTOR OF PHILOSOPHY (PhD) PROGRAMMES

The department offers two distinct PhD programmes by coursework and dissertation; one in Political Science and the other in Public Administration. The department also offers PhD programme by thesis.

DOCTOR OF PHILOSOPHY (PhD) BY THESIS

PhD IN POLITICAL SCIENCE BY COURSEWORK AND DISSERTATION

1. Objective of the Programme

The programme aims at creating a pool of well-trained academics in the field of Political Science who wish to work as political analysts and practitioners at both national and international levels. It also aims at meeting staffing needs of universities and higher learning institutions in Tanzania and other countries in the Eastern and Southern Africa.

2. Target Group

The programme targets potential employees for public service organizations, independent think tanks and development institutions in Tanzania and the region, especially those seeking to enhance their analytical skills and knowledge base in the areas of politics and development.

3. Structure and Delivery

Students pursuing a PhD in Political Science are required to take 648 credits consisting of 216 coursework credits and 432 for the dissertation as detailed below:

| S/N | Details | Credits |
|--------------|---|------------|
| 1 | Core Courses | 108 |
| 2 | Major Area of Concentration: Core Courses | 72 |
| 3 | Elective Courses | 36 |
| 4 | Dissertation | 432 |
| Total | | 648 |

The Major Areas of Concentration are Public Administration, International Relations and Politics.

4. List of Courses

Core Courses: 108 Credits

| Course Code | Course Title | Credits |
|-------------|---|---------|
| PS 701 | Qualitative Methods of Social Science Research | 18 |
| PS 703 | Political Analysis | 18 |
| PS 704 | Political Theory | 18 |
| PS 718 | International Relations: Approaches and Issues | 18 |
| PS 702 | Data Analysis Methods and Techniques | 18 |
| PA 703 | Administrative Theory (Models, Concepts, Paradigms) | 18 |
| PS 799 | Dissertation | 432 |

Major Areas of Concentration

Three areas of concentration are offered, which are International Relations, Public Administration, and Politics.

International Relations Concentration Core Courses: 72 Credits

| Course Code | Course Title | Credits |
|-------------|---------------------------------|---------|
| PS 720 | Public International Law | 18 |
| PS 722 | International Political Economy | 18 |
| PS 728 | Security, Conflict, and War | 18 |
| PS 726 | African International Relations | 18 |

Elective Courses: 36 Credits

| Course Code | Course Title | Credits |
|-------------|--|---------|
| PS 714 | Human Rights and Human Rights Law | 18 |
| PS 719 | International Organization | 18 |
| PS 720 | Regional Integration | 18 |
| PS 729 | Foreign Policy and Diplomacy | 18 |
| PS 730 | Conflict Resolution and Peace Studies | 18 |
| PS 733 | Conflict Management and Resolution in Africa | 18 |
| PS 750 | Special Topics/Directed Study | 18 |

Public Administration Concentration Core Courses: 72 Credits

| Course Code | Course Title | Credits |
|-------------|-----------------------------------|---------|
| PA 704 | Public Finance Management | 18 |
| PA 705 | Public Policy | 18 |
| PA 706 | Human Resource Management | 18 |
| PA 708 | Comparative Public Administration | 18 |

Elective Courses: 36 Credits

| Course Code | Course Title | Credits |
|-------------|-------------------------------------|---------|
| PA 706 | Corporate Governance | 18 |
| PA 707 | Administrative and Labour Laws | 18 |
| PA 713 | Employee and Labour Relations | 18 |
| PA 717 | Local Governance | 18 |
| PA 718 | Organization Development and Change | 18 |
| PA 725 | Managing Public Services | 18 |
| PS 711 | Gender and Governance | 18 |

Politics Concentration**Core Courses: 72 Credits**

| Course Code | Course Title | Credits |
|-------------|--------------------------------|---------|
| PS 707 | Comparative Politics | 18 |
| PS 711 | Contemporary Political Thought | 18 |
| PS 714 | African Political Thought | 18 |
| PS 715 | Democratic Theory and Practice | 18 |

Elective Courses: 36 Credits

| Course Code | Course Title | Credits |
|-------------|---|---------|
| PS 739 | Area Studies: One of the following – America, Europe, Asia, Middle East, China, Caribbean and Latin America | 18 |
| PS 710 | The State and the Economy | 18 |
| PS 711 | Gender and Governance | 18 |
| PS 716 | Identity and Politics | 18 |
| PS 724 | Classical Political Thought | 18 |
| PS 734 | Issues in Comparative Politics | 18 |
| PS 735 | Islamic Political Thought | 18 |
| PS 738 | Selected Issues in Political Thought | 18 |
| PS 750 | Special Topics/Directed Study | 18 |

5. Entry Requirements

Subject to the General Regulations and Guidelines for Postgraduate Study Programmes of the University of Dar es Salaam, the minimum entry qualification is a BA degree from the University of Dar es Salaam or its equivalent with a GPA of 3.8 and an MA from University of Dar es Salaam with a GPA of 4.0.

6. Assessment

The assessment in the programme includes a series of continuous assessment activities (50%) and the university examination (50%). Upon successful completion of the coursework, students will conduct research and write a dissertation that will be examined out of 100%.

PhD IN PUBLIC ADMINISTRATION BY COURSEWORK AND DISSERTATION**1. Objective of the Programme**

The programme focuses on preparing skilled and knowledgeable experts in public administration and its allied sub-fields for development.

2. Target Groups

The PhD in Public Administration programme targets graduates from different academic backgrounds who want to contribute to the advancement of knowledge in the areas of public administration and public management research and practice.

3. Structure and Delivery

The PhD in Public Administration requires students to take 648 credits consisting of 216 coursework credits and 432 credits for the dissertation.

| S/N | Details | Credits |
|--------------|-----------------------------|------------|
| 1 | Core Courses | 108 |
| 2 | Major Area of Concentration | 72 |
| 3 | Elective Courses | 36 |
| 4 | Dissertation | 432 |
| Total | | 648 |

Each course, other than the dissertation, carries 18 credits. The dissertation carries 432 credits.

4. List of Courses

Core Courses: 108 Credits

| Course Code | Course Title | Credits |
|-------------|---|---------|
| PS 701 | Principles and Methods in Social Science Research | 18 |
| PS 702 | Data Analysis: Methods and Techniques | 18 |
| PA 703 | Administrative Theory (Models, Concepts, Paradigms) | 18 |
| PA 704 | Public Finance Management | 18 |
| PA 705 | Public Policy | 18 |
| PA 706 | Human Resource Management | 18 |
| PS 799 | Dissertation | 432 |

Major Area of Concentration: 72 Credits

| Course Code | Course Title | Credits |
|-------------|---------------------------------------|---------|
| PA 708 | Comparative Public Administration | 18 |
| PA 706 | Corporate Governance | 18 |
| PA 708 | Performance Management | 18 |
| PA 713 | Employee and Labour Relations | 18 |
| PA 717 | Local Governance | 18 |
| PA 718 | Organizational Development and Change | 18 |
| PA 750 | Special Topics/Directed Study | 18 |

Elective Courses

36 credits selected from university wide graduate courses.

5. Entry Requirements

Entry requirements are subject to the General Regulations and Guidelines for Postgraduate Study Programmes of the University of Dar es Salaam, the minimum entry qualification is a BA degree from the University of Dar es Salaam or its equivalent with a GPA of 3.8 and an MA from University of Dar es Salaam with a GPA of 4.0.

6. Assessment

The assessment in the programme includes a series of continuous assessment activities (50%) and end of the semester university examination (50%). Upon successful completion of the coursework, students will conduct research and write a dissertation that will be examined out of 100%.

DEPARTMENT OF STATISTICS
MASTER PROGRAMME OFFERED BY THE UNIT

The Department of Statistics offers the following Master programmes:

MASTER OF SCIENCE IN STATISTICS

1. Introduction

Recent changes in the economy and the growing reliance of businesses and government agencies on data have created an increased demand for personnel who can manage data and produce informative visualizations of data that are guided by fundamental statistical principles. Furthermore, there is an urgent need to produce academics who will handle statistics courses in universities and other higher learning institutions.

Statistics play increasingly important roles as there is a strong demand for advanced degrees in Statistics, both from students and the job market. Successful analysis of complex models illuminates the role and interaction of key components in the system being studied and provides essential tools for evaluating and improving system performance. The MSc programme in Statistics with specializations in Biostatistics, Econometrics, Machine Learning, Statistical Computations and Operations Research keeps data evolution agenda forward.

2. Objectives of the Programme

The main objective of the programme is to impart practical statistical knowledge and skills needed in the modern society. Specific objectives are to:

- i. train people to fill the academic posts in universities and higher learning institutions; and
- ii. train people to fill the statistical post in all sectors to facilitate efficient and appropriate decision-making mechanisms.

The strength of the current staff and rapidly emerging field of data science emphasizes on the Computational and Computer-Intensive Statistics; Applied Multivariate Analysis; Social Statistics; Machine Learning; Data Mining and Spatial Statistics. The sequence of model development, analysis, simulation and interpretation of data demands application of statistical methods at a level that often requires the knowledge and skills acquired during the Master programme.

3. Entry Requirements

Admission to the Master of Statistics will require the applicant to satisfy the general regulations and guideline for postgraduate study programmes of the University of Dar es Salaam. Applicants should have a background in statistics and a minimum GPA of 2.7 in their Bachelor degree.

4. Programme Structure

Master of Statistics is a two-pronged pathway programme, comprising Theory of Statistics and Applied Statistics. **Theory of Statistics** is a pathway which brings together three crucial areas of statistical knowledge required for a sound foundation in statistical training. The frequentists' approach that is used in most courses in Statistics is combined with Bayesian fundamentals and nonparametric inference. Appropriately, sampling theory and time series are also well expounded in this pathway. In **Applied Statistics** pathway, issues such as data Management, Biological Process analysis, business forecasting, data mining, statistical learning and Monte-Carlo experiment feature has been addressed. Student will be awarded with Master of Science in Statistics.

5. List of Courses

| Learning and Course matrix for Statistics Theory Pathway¹ | | | |
|---|--|---------------|----------------|
| Year 1: Semester I | | | |
| Course Code | Course Title | Status | Credits |
| ST 637 | Probability and Random Process | Core | 12 |
| ST 639 | Advanced Sampling Theory and Methods | Core | 12 |
| ST 641 | Multivariate Analysis | Core | 12 |
| ST 644 | Statistical Data Analysis and Management | Elective | 12 |

| | | | |
|---------------------------------|---|----------|-----------|
| ST 646 | Computational Statistics | Elective | 12 |
| ST 650 | Statistical Methods in Epidemiology and Biostatistics | Elective | 12 |
| ST 652 | Actuarial Statistics | Elective | 12 |
| ST 653 | Advanced Design and Analysis of Experiments | Elective | 12 |
| ST 655 | Statistical Process Control | Elective | 12 |
| Minimum Credits Required | | | 60 |
| Year 1: Semester II | | | |
| ST 638 | Research Methods | Core | 12 |
| ST 640 | Time Series Analysis | Core | 12 |
| ST 643 | Bayesian Statistics | Core | 12 |
| ST 642 | Nonparametric Inference | Elective | 12 |
| ST 645 | Generalized Linear and Additive Models | Elective | 12 |
| ST 647 | Spatial Modelling | Elective | 12 |
| ST 648 | Applied Data Mining and Statistical Learning | Elective | 12 |
| ST 649 | Survival and Lifetime Data Analysis | Elective | 12 |
| ST 651 | Operations Research for Decision Making | Elective | 12 |
| ST 654 | Advanced Econometrics | Elective | 12 |
| Minimum required Credits | | | 60 |
| Year 2: Dissertation | | | |
| ST 699 | Dissertation | Core | 60 |

4 Elective Courses to be taken

| Learning and Course Matrix for Applied Statistics Pathway¹ | | | |
|--|---|-------------------------|----------------|
| Semester 1 Year 1 | | | |
| Course Code | Course Title | Core or Elective | Credits |
| ST 641 | Multivariate Analysis | Core | 12 |
| ST 644 | Statistical Data Analysis and Management | Core | 12 |
| ST 637 | Probability and Random Process | Elective | 12 |
| ST 639 | Advanced Sampling Theory and Methods | Elective | 12 |
| ST 646 | Computational Statistics | Elective | 12 |
| ST 650 | Statistical Methods in Epidemiology and Biostatistics | Elective | 12 |
| ST 652 | Actuarial Statistics | Elective | 12 |
| ST 653 | Advanced Design and Analysis of Experiments | Elective | 12 |
| ST 655 | Statistical Process Control | Elective | 12 |
| Minimum required Credits | | | 60 |
| Year 1: Semester II | | | |
| ST 638 | Research Methods | Core | 12 |
| ST 643 | Bayesian Statistics | Core | 12 |
| ST 640 | Time Series Analysis | Elective | 12 |
| ST 642 | Nonparametric Inference | Elective | 12 |
| ST 645 | Generalized Linear and Additive Models | Elective | 12 |
| ST 647 | Spatial Modelling | Elective | 12 |
| ST 648 | Applied Data Mining and Statistical Learning | Elective | 12 |
| ST 649 | Survival and Lifetime Data Analysis | Elective | 12 |
| ST 651 | Operations Research for Decision Making | Elective | 12 |
| ST 654 | Advanced Econometrics | Elective | 12 |
| Minimum Credits Required | | | 60 |
| Year 2: Dissertation | | | |
| ST 699 | Dissertation | Core | 60 |

6 Elective Courses to be taken

¹Selection of the pathway will be done at the beginning of registration based on entry qualification.

6. Programme Evaluation and Examinations

The first review of the programme will be conducted after it has been offered for five years and subsequent reviews will be conducted after every three years. The process will involve stakeholders such as college members, alumni, and employers. In future, a tracer study of alumni will be conducted to get detailed feedback from their work locations.

UDSM General University Examinations Regulations shall apply. Assessment for each course will constitute a combination of continuous assessment (50%) (based on written tests, project and assignments) and final university examination (50%). The written examination will follow the standard UDSM format for University Examinations. The general University of Dar es Salaam Examination Rules and Regulations shall apply. Specifically, all coursework examination results must be submitted to the relevant Boards of the Colleges/Schools/ Institutes, SPSC and Senate for approval. Presentation of examination results to Boards of Colleges/Schools/Institutes; SPSC and Senate shall be in accordance with the University approved format.

INFORMATION STUDIES UNIT

PROGRAMMES OFFERED

Objective of the Programme

The objective of the programme is to provide students with advanced knowledge in library and information science profession to enable them work in libraries and information units, documentation centres as librarians/information scientists/ documentalists.

DOCTOR OF PHILOSOPHY (PhD)

PhD is a three-year programme offered by thesis.

MASTER PROGRAMMES OFFERED BY THE UNIT

MA INFORMATION STUDIES

1. Introduction

The taught Master programme (Regular & Evening Programme) takes eighteen months, consisting of two semesters of classroom instructions. Students should take a total of 124 credit hours, 108 of which are compulsory and 16 are elective. The remaining nine months are for research work leading to a dissertation which carries 60 credits.

2. Qualifications for Admission

MA in Information Studies is a multidisciplinary course. For a taught MA programme, a candidate must have a lower second-class Bachelor degree in any field as a minimum entry qualification. For PhD and MA programmes by thesis, a candidate must have an upper second-class Bachelor degree.

3. Duration of the Programme

The programme is offered to full-time students and lasts for 18 months. Nine months are for coursework phase and other nine for dissertation.

4. Structure of the Programme

The MA programme consists of two semesters of classroom instruction. Students should take a total of 124 credit hours, 108 of which are compulsory and 16 are elective. The remaining nine months are for research work leading to a dissertation which carries 60 credits.

5. Course Evaluation

For PhD and MA programmes by thesis, evaluation is based on thesis; and for a taught MA programme, evaluation is based on coursework as follows:

Course Work: 50%

University Examinations: 50%; and the dissertation is graded.

6. List of Courses

Year 1: Semester I

| Course Code | Course Title | Status | Credits |
|--|--|----------|-----------|
| IL 634 | IL 634 – Information and communication theory | Core | 12 |
| IL 635 | IL 635 – Information sources and reference services | Core | 12 |
| IL 636 | IL 636 – Information technology and its applications | Core | 12 |
| IL 637 | IL 637 – Organization of knowledge | Core | 12 |
| <i>Students have to select at least 1 of the following courses</i> | | | |
| IL 619 | Information user studies | Elective | 12 |
| IL 645 | Legal information services | Elective | 12 |
| IL 644 | Information in Science and Technology | Elective | 12 |
| GE 633 | Geographical Information Systems (Check with Geography Dept on when the course is offered) | Elective | 12 |
| Minimum Credits Required | | | 60 |

Second Semester (First year)

| Course Code | Course Course | Status | Credits |
|---|--|----------|-----------|
| IL 603 | Research methods | Core | 12 |
| IL 623 | Records management and archives administration | Core | 12 |
| IL 638 | Organization of knowledge | Core | 12 |
| IL 647 | Management for information professionals | Core | 12 |
| IL 648 | Collection development and management | Core | 12 |
| <i>Students have to at least 1 of the following courses</i> | | | |
| IL 620 | Analysis, design and evaluation of information systems | Elective | 12 |
| IL 632 | Digital Libraries | Elective | 12 |
| IL 644 | Information in Science and Technology | Elective | 12 |
| IL 643 | Knowledge Management | Elective | 12 |
| GE 633 | Geographical Information Systems (Check with Geography Dept on when the course is offered) | | 12 |
| Minimum Credits Required | | | 72 |

Year 2

| Course Code | Course Title | Status | Credits |
|-------------|--------------|--------|---------|
| IL 699 | Dissertation | Core | 60 |

MASTER OF ARTS IN RECORDS AND ARCHIVES MANAGEMENT (MARAM)

Courses

| Semester 1 | | | Semester 2 | | |
|--------------------------------------|--|---------|--------------------------------------|--|---------|
| Core Courses | | | Core course | | |
| Course Code | Course Title | Credits | Course Code | Courses Title | Credits |
| RA 600 | Theory and Practice of Records Management | 12 | RA 603 | Electronic Records Management | 12 |
| RA 601 | Principles and Practice of Archives Administration | 12 | RA 604 | Managing Archives | 12 |
| RA 602 | ICTs Applications in Records and Archives | 12 | RA 605 | Disaster Management for Records and Archives | 12 |
| IL 647 | Management for Information Professionals | 12 | IL 603 | Research Methods | 12 |
| <i>Elective Courses (Select one)</i> | | | <i>Elective Courses (Select one)</i> | | |
| RA 630 | Strategic Management for | 12 | RA 632 | Public and Private | 12 |

| | | | | | |
|-------------------|--|----|--------|---|----|
| | Records and Archives Services | | | Records Management | |
| RA 631 | Application of Web technologies in records and archives management | 12 | IL 620 | Analysis, Design and Evaluation of Information Systems | 12 |
| IL 634 | Information and Communication Theories | 12 | IL 643 | Knowledge Management in Records and Archives Management | 12 |
| Semester 3 | | | | | |
| RA 699 | Dissertation | 60 | | | |

**POPULATION STUDIES AND RESEARCH CENTRE
MASTER OF ARTS IN DEMOGRAPHY (MA DEMOGRAPHY)**

1. Introduction

The MA in Demography by coursework started in the 1985/86 academic year. Prior to that, the University had been offering the course by thesis. Since the inception of the programme in 1985, about 100 students have graduated. Most of these graduates have been absorbed in sectoral ministries dealing with population issues and others are working with NGOs. The course is run by the Population Studies and Research Centre which is under the College of Social Sciences. The United Nations Population Fund (UNFPA) provided substantial financial assistance to start and run the programme since 1985, with the United Nations Department of Economic and Social Development (UN-DESD) as the Executing Agency. However, with effect from November 1995, the Government of the United Republic of Tanzania became the Executing Agency, and the Ministry of Higher Education, Science and Technology as well as the University of Dar es Salaam being the Implementing Agencies. The Rockefeller Foundation also significantly supplemented the UNFPA efforts.

2. Objectives of the Programme

- i. Producing competent and skilled experts and professionals who are able to integrate population variables into development plans.
- ii. Relating population, environment and development nexus.
- iii. Analyzing the implications of population dynamics on socio-economic development and the environment.
- iv. Advancing new frontiers of population knowledge and enabling Tanzanians to cope with new dimensions of population increase in the globalized world.

The **full-time MA Demography** programme is offered during normal working hours and students registered in the programme are expected to be residing within Dar es Salaam for effective utilisation of facilities. These include the mini-library at the Population Studies and Research Center, internet connected computers, reading facilities and so on.

3. Target Group

The target group for the programme is young graduates and professionals who aspire to build their capacity and career in demography

4. Structure of the Programme

The programme has three semesters, two semesters for teaching and one semester for dissertation research project. The first two semesters consist of 30 weeks of teaching and seminar activities. In each semester, students are required to complete five courses, equaling to 60 credits of coursework. Each course (12 credits) consists of 45 contact hours. To complete the programme, a student is required to take and pass 60 credits and write a dissertation under supervision of an academic staff for a total of 60 credits.

5. List of Courses

Course Mapping for the Full-time MA (Demography) Programme:

Semester I

Core Course

| Course Code | Course Title | Credits |
|-------------|------------------------------------|---------|
| DE 620 | Introduction to Population Studies | 12 |
| DE 621 | Direct Demographic Techniques | 12 |
| DE 623 | Determinants of Fertility | 12 |
| DE 625 | Statistical Methods** | 12 |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|--|---------|
| DE 628 | Population, Resources and Environment | 12 |
| DE 630 | Population and Socio-economic Development | 12 |
| DE 632 | Theory and Policy Issues in Population and Development | 12 |

Semester II

Core Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| DE 622 | Indirect Demographic Techniques | 12 |
| DE 624 | Determinants of Mortality | 12 |
| DE 626 | Research Methods in Population | 12 |
| DE 627 | Introduction to IT, Data Management and Com-putting Methods | 12 |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|--|---------|
| DE 629 | Migration and Urbanization | 12 |
| DE 631 | Social and Gender Analysis of Population | 12 |
| DE 633 | Population Programmes and Socio-economic Development | 12 |

Semester III

| Course Code | Course Title | Credits |
|-------------|--------------|---------|
| DE 699 | Dissertation | 60 |

** Students with a first degree in Statistics will be exempted from this course. They will instead choose an extra course from the elective courses.

6. Duration

The programme commences in October each year and lasts for 18 months (9 months of coursework with a three-month long vacation between the first and second years of study and 6 months of dissertation writing).

7. Admission Requirements

The minimum qualification to the programme is a Bachelor degree with a score of a lower second class (GPA 2.7) in any field that related to population, resources and development for example Geography, Statistics, Sociology and Anthropology, Environmental Studies, Economics, Rural and Urban Planning,

Surveying, Natural Resource Management, Disaster Management, Transportation and Transport Planning. For non-degree applicants to be considered for admission, they should possess a Postgraduate Diploma in similar disciplines from recognised institutions.

8. Fee Structure

The fee structure for the full-time MA in Demography may change from time to time. For more information on the fee structure for the next academic year, one may contact the Principal (College of Social Sciences).

9. Programme Evaluation and Examinations

Each subject is evaluated by:

- i. continuous assessment of coursework that carries 50% of the final marks;
- ii. examination at the end of each semester, for 50% of the final marks;
- iii. the pass mark of each examinable course is a B (50%).

10. Other Regulations

- i. A candidate with a GPA of less than 2.7 in an academic year shall be deemed to have failed completely and will be discontinued.
- ii. A candidate failing in any number of courses in an academic year and who has a GPA of not less than 2.7 shall be deemed to have marginally failed and will be allowed to supplement the failed course(s).
- iii. The passing grade for a supplementary examination shall be a “B” regardless of the marks obtained.
- iv. Candidates who fail supplementary examinations (i.e. scoring less than a “B”) shall be allowed to carry over the course(s) provided that a course can only be carried over once.
- v. A candidate who fails a carried over course shall be discontinued.
- vi. Candidates who fail the coursework shall not be allowed to proceed for research work leading to the writing of a dissertation.

11. Degree Award

The MA (Demography) degree shall not be awarded until both the coursework and the dissertation have been satisfactorily and successfully completed and graded.

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Assistant lecturers

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S. P. Njenje, BA, MA (Dar)
*M. A. Shagemba, BA, MA (Dar)
V. E. Temu, BA, MA (Dar)
E. Mwambene, BA (Iringa), MAASP (Dar)
M. Masaka, BAEd (OUT), MAASP (Dar)

Tutorial Assistants

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R. R. Matola, BA (Dar)

Department of Statistics

Lecturer and Head

A. S. Msengwa, BA, MA, PhD (Dar)

Lecturers

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E. N. Mukyanuzi, BA, MA, PhD (Dar)

Assistant Lecturers

*D. Moshia, BA, MA (Dar)
*G. Baltazary, BA, MA (Dar)
*D. Loiboo, BA, MA (Dar)
*F. T. Faustin, BA, MA (Dar)
*W. Aaron, BA, MA (Dar)
*G. Saqware, BA, MA (Dar)
*B. Thobias, BA, MA (Dar)
*S. E. Kibona, BA (Dar)
*B. Wilson, BA, MA (Dar)
E. Magwaja, BA, MA (Dar)
E. Rutaigwa, BA, MA (Dar)
J. Rashid, BSc (Dodoma), MA (Dar)

E. Emmanuel, BSc (Dar), MSc (Crescent)
*C. Nziku, BA (Dar), MSc(Mysore)
W. Focus, BA (Dar)
* H. Twahil, BA, MA (Dar)
O. Kigahe, BA, MA (Dar)
*Z. Msofe, BA, MA (Dar)
B. Gosbert, BSc (Morogoro), MSc (Dar)

Population Studies and Research Centre
Coordinator

* On Study Leave
**On Sabbatical Leave
***On Leave of Absence/Secondment

INTRODUCTION

As one of the leading African Business schools, the University of Dar es Salaam Business School conducts postgraduate programmes aimed at addressing the growing demand for expert education in specialized business and management areas such as finance, accounting, marketing, production, human resources management, tourism and hospitality management, logistics and management science. Graduates end up either being getting employments at different levels of industry, government and academia or being self employed.

Strongly committed to excellence, efficiency and sustainability in addition to incorporating its values of Customer-orientedness, Excellence, Social responsiveness and Integrity (CESI) and principles into all teaching and research activities, our postgraduate programmes have been Tanzania's torchbearers and our MBA was the first in Tanzania. Our lecturers have strong links with the business and industry and are at the forefront of research in their fields, ensuring that course contents are relevant, highly practical and innovative.

PROGRAMMES OFFERED BY THE UNIT

The first products of the newly established Faculty of Commerce and Management 41 years ago were 10 MBA students who graduated in 1981. Since then, strong links between the School and industry have not only resulted into many students passing through our postgraduate programmes, but also have brought about a number of strategic business and industry partnerships. These collaborations provide us with the basis to progress research priorities and ensure that coursework programmes are continually developed to provide students with skills that meet business and industry needs. Graduates from UDBS join a growing body of more than three thousand former postgraduate students that comprise the UDBS graduate students' alumni network.

List of Programmes Offered by the Unit

| Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|---|------------------------------|-------------------------------|-----------|--------------------|---------------------|
| | | | | Tanzanian (TZS.) | Non-Tanzanian (USD) |
| Doctor of Philosophy (PhD) in Business Administration | Thesis | Full-time | 36 months | 4,000,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Business Administration | Thesis | Part-time | 60 months | 4,000,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Operations Research | Coursework and Dissertation. | Full-time (Starts in October) | 48 months | 4,000,000 per year | 4,020 per year |
| Master of Business Administration (MBA) <ul style="list-style-type: none"> ▪ Accounting ▪ Finance ▪ Human Resource Management ▪ Marketing | Coursework and Dissertation | Full-time | 24 months | 8,500,000 | 8,040 |
| Master of Business Administration (MBA) <ul style="list-style-type: none"> ▪ Accounting ▪ Finance ▪ Human Resource | Coursework and Dissertation | Evening (Starts in July) | 27 months | 8,500,000 | 8,040 |

| | | | | | |
|---|-----------------------------|--------------------------------|-----------|-----------|-------|
| Management Marketing | | | | | |
| Master of Business Administration (MBA) <ul style="list-style-type: none"> ▪ Accounting ▪ Finance ▪ Human Resource Management Marketing | Coursework and Dissertation | Executive | 27 months | 8,500,000 | 8,040 |
| Master of International Trade (MIT) | Coursework and Dissertation | Evening (Starts in March) | 18 months | 6,375,000 | 6,030 |
| Master in Entrepreneurship and Enterprise Development | Coursework and Dissertation | Executive (Starts in March) | 18 months | 6,375,000 | 6,030 |
| Master of Science in International Transport and Logistics | Coursework and Dissertation | Evening (Starts in March) | 24 months | 7,500,000 | 6,030 |
| Master of International Business (MIB) | Coursework and Dissertation | Evening (Starts in March) | 18 months | 6,375,000 | 6,030 |
| Master of International Business (MIB) | Coursework and Dissertation | Executive (Starts in March) | 18 months | 6,375,000 | 6,030 |
| Master of Finance and Accounting in Oil and Gas | Coursework and Dissertation | Executive | 18 months | 8,500,000 | 6,030 |

MASTER PROGRAMME OFFERED BY THE UNIT

MASTER OF BUSINESS ADMINISTRATION (MBA) (Full-time Programme)

1. Introduction

The full-time MBA programme, which is the School wide programme, is offered during normal working hours and students registered in the programme are expected to be residing within Dar es Salaam for effective utilisation of facilities. These include the mini-library at the School, internet connected computers in the labs, reading facilities and so on. The School has recently expanded its physical facilities which will see an increased more students study rooms, break-up rooms, expanded library and computer labs.

2. Objectives of the Programme

The programme seeks to equip participants with skills, techniques and understanding required for successful managerial careers in the public and private sectors of the economy.

3. Entry Requirements

- i. Holders of a first or second-class honours degree of the University of Dar es Salaam or its equivalent from another approved university or higher learning institution.
- ii. Holders of a pass degree who have at least 5 years of working experience after graduation plus a post graduation training of at least 6 months.
- iii. Holders of Advanced Diploma from a recognized higher learning institution with a minimum of upper second class plus a postgraduate diploma.
- iv. Holders of recognized professional qualifications (CPA, ACCA, CMA, CPA, CSP, CPSP, CIM, etc).

4. Programme Structure

Overall, the programme has four semesters, three semesters of teaching and one semester of dissertation research project. The first three semesters consist of 15 weeks of teaching and seminar activities. In each semester, students are required to complete five courses equaling to 60 credits of coursework. Each course (12 credits) consists of 45 contact hours.

In the first two semesters of study, students take 10 core courses in business administration. In the third semester, students are required to take one more core course plus four elective courses specializing in a particular functional area of management: Accounting, Finance, Human Resource Management, Marketing, and Production Management. Students may also choose a combination of courses that may have career development relevance to them.

5. List of Courses

| Course Code | Course Title | Status | Credits |
|----------------------------|---|----------|---------|
| Year 1 Semester I | | | |
| AC 601 | Financial Accounting for Managers | Core | 12 |
| GM 601 | Business Law and Ethics | Core | 12 |
| IM 600 | Quantitative Methods for Business Decisions | Core | 12 |
| IM 601 | Management Information Systems | Core | 12 |
| IM 602 | Managerial Economics | Core | 12 |
| Year 1: Semester II | | | |
| FN 601 | Financial Management | Core | 12 |
| GM 600 | Business Research Methods | Core | 12 |
| HR 600 | Human Resource Management | Core | 12 |
| MK 600 | Advanced Marketing Management | Core | 12 |
| MK 614 | Entrepreneurship and Business Planning | Core | 12 |
| Year 2: Semester I | | | |
| GM 602 | Strategic Management | Core | 12 |
| | Option 1 | Elective | 12 |
| | Option 2 | Elective | 12 |
| | Option 3 | Elective | 12 |
| | Option 4 | Elective | 12 |
| Year 2: Semester II | | | |
| GM 699 | Dissertation | Core | 90 |
| | Total | | 270 |

Year 2: Semester I - Specializations

| Course Code | Course Title | Status | Credits |
|-----------------------------|---|----------|---------|
| Accounting Electives | | | |
| AC 603 | Management Accounting for Decision Making | Elective | 12 |
| AC 604 | Advanced Auditing and Investigation | Elective | 12 |
| AC 605 | Advanced Taxation | Elective | 12 |
| AC 606 | Advanced Financial Reporting | Elective | 12 |
| AC 607 | Advanced Forensic Accounting and Fraud Investigation | Elective | 12 |
| AC 608 | Advanced Accounting Information Systems | Elective | 12 |
| AC 609 | Advanced Corporate Governance and Social Responsibility | Elective | 12 |

| Course Code | Course Title | Status | Credits |
|----------------------------------|--|----------|---------|
| AC 610 | Accounting for Environment and Natural Resources | Elective | 12 |
| AC 611 | Advanced Financial Statement Analysis | Elective | 12 |
| Finance Electives | | | |
| FN 602 | Financial Institutions and Markets | Elective | 12 |
| FN 603 | Public Sector Financial Management | Elective | 12 |
| FN 604 | Monetary Theory and Policies | Elective | 12 |
| FN 605 | International Business Finance | Elective | 12 |
| FN 606 | Advanced Corporate Finance | Elective | 12 |
| FN 607 | Financial Planning and Analysis | Elective | 12 |
| FN 609 | Personal and Social Security Finance | Elective | 12 |
| FN 610 | Micro Finance | Elective | 12 |
| FN 614 | Investment Analysis and Portfolio Management | Elective | 12 |
| FN 615 | Bank Management | Elective | 12 |
| Human Resources Electives | | | |
| GM 603 | Organization Theory | Elective | 12 |
| HR 602 | Labour Law | Elective | 12 |

| Course Code | Course Title | Status | Credits |
|---|---|----------|---------|
| HR 603 | Human Resources Planning and Recruitment | Elective | 12 |
| HR 606 | Industrial Relations | Elective | 12 |
| HR 609 | Human Resource Training and Development | Elective | 12 |
| HR 610 | International Human Resources Management | Elective | 12 |
| HR 612 | Strategic Human Resources Management | Elective | 12 |
| HR 613 | Performance and Rewards Management | Elective | 12 |
| HR 614 | Organization Behaviour | Elective | 12 |
| Operations/Procurement Electives | | | |
| IM 603 | Operations Research | Elective | 12 |
| IM 604 | Procurement Management | Elective | 12 |
| IM 605 | Advanced Management Information Systems | Elective | 12 |
| IM 623 | Total Quality Management | Elective | 12 |
| IM 624 | Supply Chain Management | Elective | 12 |
| IM 626 | Project Planning and Management | Elective | 12 |
| IM 630 | Inventory Management | Elective | 12 |
| IM 642 | International Procurement Management | Elective | 12 |
| Marketing Electives | | | |
| MK 603 | Consumer Behaviour | Elective | 12 |
| MK 615 | Strategic Marketing | Elective | 12 |
| MK 606 | Marketing Research | Elective | 12 |
| MK 607 | Marketing Communications | Elective | 12 |
| MK 608 | International Marketing | Elective | 12 |
| MK 610 | Marketing of Services | Elective | 12 |
| MK 612 | Branding and Pricing Strategies | Elective | 12 |
| MK 613 | Marketing Distribution Systems and Sales Management | Elective | 12 |

6. Programme Evaluation and Examinations

Each subject is evaluated by:

- i. Continuous assessment of coursework that carries 50% of the final marks;
- ii. Examination at the end of each semester, for 50% of the final marks; and
- iii. The pass mark of each examinable course is a B (50%).

7. Other Regulations

- i. A candidate with a GPA of less than 2.7 in an academic year shall be deemed to have failed completely and will be discontinued.
- ii. A candidate failing in any number of courses in an academic year and who has a GPA of not less than 2.7 shall be deemed to have marginally failed and will be allowed to supplement the failed course(s).
- iii. The passing grade for a supplementary examination shall be a “B” regardless of the marks obtained.
- iv. Candidates who fail supplementary examinations (i.e. scoring less than a “B”).
- v. Candidates who fail the coursework shall not be allowed to proceed for research work leading to the writing of a dissertation.

MASTER OF BUSINESS ADMINISTRATION (MBA) (Evening Programme)

1. Introduction

The Evening MBA programme is offered after normal working hours between 17.00 and 20.00 hours during the week-days. Each class meets three times a week alternating between the first and the second years. Students, however, are free to access and utilize the School’s facilities at any time. This is a School wide programme.

1. Objectives of the Programme

The Master of Business Administration (MBA) programme seeks to equip participants with skills, techniques and understanding required for successful managerial careers in the public and private sectors of the economy.

2. Entry Requirements

- i. Holders of a First or Second-class honours degree of the University of Dar es Salaam or its equivalent from another approved University or higher learning institution.
- ii. Holders of a pass degree who have at least 5 years of working experience after graduation plus a post-graduation training of at least 6 months.
- iii. Holders of Advanced Diploma from a recognized higher learning institution with a minimum of upper second class plus a postgraduate diploma.
- iv. Holders of recognized professional qualifications (CPA, ACCA, CMA, CPA, CSP, CPSP, CIM, etc).

3. Programme Structure

The target group for the programme is working individuals (employed or self- employed) who cannot afford to attend a full-time study programme. The MBA Evening programme is designed to combine work and study. It is run on a trimester basis having 7 trimesters of 15 weeks each. In the 6th and 7th trimesters students are required are set for dissertation (research work).

4. List of Courses

| Course Code | Course Title | Status | Credits |
|-----------------------------|---|--------|---------|
| Year 1: Trimester I | | | |
| IM 600 | Quantitative Methods for Business Decisions | Core | 12 |
| IM 601 | Management Information Systems | Core | 12 |
| MK 600 | Advanced Marketing Management | Core | 12 |
| Year 1: Trimester II | | | |
| AC 601 | Financial Accounting for Managers | Core | 12 |
| HR 600 | Human Resource Management | Core | 12 |
| IM 602 | Managerial Economics | Core | 12 |

| Course Code | Course Title | Status | Credits |
|------------------------------|--|----------|---------|
| Year 1: Trimester III | | | |
| GM 600 | Business Research Methods | Core | 12 |
| GM 601 | Business Law and Ethics | Core | 12 |
| FN 601 | Financial Management | Core | 12 |
| Year 2: Trimester I | | | |
| MK 614 | Entrepreneurship and Business Planning | Core | 12 |
| GM 602 | Strategic Management | Core | 12 |
| | Option 1 | Elective | 12 |
| Year 2: Trimester II | | | |
| | Option 2 | Elective | 12 |
| | Option 3 | Elective | 12 |
| | Option 4 | Elective | 12 |
| Year 2: Trimester III | | | |
| GM 699 | Dissertation | Core | 90 |

Specializations

| Course Code | Course Title | Status | Credits |
|----------------------------------|---|----------|---------|
| Accounting Electives | | | |
| AC 603 | Management Accounting for Decision Making | Elective | 12 |
| AC 604 | Advanced Auditing and Investigation | Elective | 12 |
| AC 605 | Advanced Taxation | Elective | 12 |
| AC 606 | Advanced Financial Reporting | Elective | 12 |
| AC 607 | Advanced Forensic Accounting and Fraud Investigation | Elective | 12 |
| AC 608 | Advanced Accounting Information Systems | Elective | 12 |
| AC 609 | Advanced Corporate Governance and Social Responsibility | Elective | 12 |
| AC 610 | Accounting for Environment and Natural Resources | Elective | 12 |
| AC 611 | Advanced Financial Statement Analysis | Elective | 12 |
| Finance Electives | | | |
| FN 602 | Financial Institutions and Markets | Elective | 12 |
| FN 603 | Public Sector Financial Management | Elective | 12 |
| FN 604 | Monetary Theory and Policies | Elective | 12 |
| FN 605 | International Business Finance | Elective | 12 |
| FN 606 | Advanced Corporate Finance | Elective | 12 |
| FN 607 | Financial Planning and Analysis | Elective | 12 |
| FN 609 | Personal and Social Security Finance | Elective | 12 |
| FN 610 | Micro Finance | Elective | 12 |
| FN 614 | Investment Analysis and Portfolio Management | Elective | 12 |
| FN 615 | Bank Management | Elective | 12 |
| Human Resources Electives | | | |
| GM 603 | Organization Theory | Elective | 12 |
| HR 602 | Labour Law | Elective | 12 |
| HR 603 | Human Resources Planning and Recruitment | Elective | 12 |
| HR 606 | Industrial Relations | Elective | 12 |
| HR 609 | Human Resource Training and Development | Elective | 12 |

| Course Code | Course Title | Status | Credits |
|-------------|---|----------|---------|
| HR 610 | International Human Resources Management | Elective | 12 |
| HR 612 | Strategic Human Resources Management | Elective | 12 |
| HR 613 | Performance and Rewards Management | Elective | 12 |
| HR 614 | Organization Behaviour | Elective | 12 |
| | Operations/Procurement Electives | | |
| IM 603 | Operations Research | Elective | 12 |
| IM 604 | Procurement Management | Elective | 12 |
| IM 605 | Advanced Management Information Systems | Elective | 12 |
| IM 623 | Total Quality Management | Elective | 12 |
| IM 624 | Supply Chain Management | Elective | 12 |
| IM 626 | Project Planning and Management | Elective | 12 |
| IM 630 | Inventory Management | Elective | 12 |
| IM 642 | International Procurement Management | Elective | 12 |
| | Marketing Electives | | |
| MK 603 | Consumer Behaviour | Elective | 12 |
| MK 615 | Strategic Marketing | Elective | 12 |
| MK 606 | Marketing Research | Elective | 12 |
| MK 607 | Marketing Communications | Elective | 12 |
| MK 608 | International Marketing | Elective | 12 |
| MK 610 | Marketing of Services | Elective | 12 |
| MK 612 | Branding and Pricing Strategies | Elective | 12 |
| MK 613 | Marketing Distribution Systems and Sales Management | Elective | 12 |

5. Programme Evaluation and Examinations

Each subject is evaluated by:

- i. Continuous assessment of coursework that carries 50% of the final marks;
- ii. Examination at the end of each semester, for 50% of the final marks; and
- iii. The pass mark of each examinable course is a B (50%).

6. Other Regulations

- i. A candidate with a GPA of less than 2.7 in an academic year shall be deemed to have failed completely and will be discontinued.
- ii. A candidate failing in any number of courses in an academic year and who has a GPA of not less than 2.7 shall be deemed to have marginally failed and will be allowed to supplement the failed course(s).
- iii. The passing grade for a supplementary examination shall be a “B” regardless of the marks obtained.
- iv. Candidates who fail supplementary examinations (i.e. scoring less than a “B”) shall be allowed to carry over the course(s).
- v. Candidates who fail the coursework shall not be allowed to proceed for research work leading to the writing of a dissertation.

MASTER OF BUSINESS ADMINISTRATION (MBA) EXECUTIVE PROGRAMME

1. Introduction

This is a flexible MBA programme that is offered on a modular basis. It is a flexible programme that is so designed to suit working executives who wish to combine work while undertaking practical assignments. It is the modular programme offered on a full-time basis when the classes are in sessions. It can accommodate even students who are based out of Dar es Salaam region, including those based in foreign countries. They just have to arrange for their presence during the modules when the classes are in session.

This is a School wide programme

2. Objectives of the Programme

The Master of Business Administration (MBA) programme seeks to equip participants with skills, techniques and understanding required for successful managerial careers in the public and private sectors of the economy.

3. Entry Requirements

- i. Holders of a First or Second-class honours degree of the University of Dar es Salaam or its equivalent from another approved University or higher learning institution.
- ii. Holders of a pass degree who have at least 5 years of working experience after graduation plus a post graduation training of at least 6 months.
- iii. Holders of Advanced Diploma from a recognized higher learning institution with a minimum of upper second class plus a postgraduate diploma.
- iv. Holders of recognized professional qualifications (CPA, ACCA, CMA, CPA, CSP, CPSP, CIM, etc).

4. Programme Structure

The target group for the programme is working individuals (employed or self-employed) who cannot afford to attend a full-time study programme. The MBA Evening programme is designed to combine work and studies. It is run on a trimester basis having 7 trimesters of 15 weeks each. In the 6th and 7th trimesters, students are required are set for dissertation (research work).

5. List of Courses

Programme Structure and Delivery Mode

| Course Code | Course Title | Status | Credits |
|-------------------------|---|----------|---------|
| Year 1: Module 1 | | | |
| IM 600 | Quantitative Methods for Business Decisions | Core | 12 |
| IM 601 | Management Information Systems | Core | 12 |
| MK 600 | Advanced Marketing Management | Core | 12 |
| Year 1: Module 2 | | | |
| AC 601 | Financial Accounting for Managers | Core | 12 |
| HR 600 | Human Resource Management | Core | 12 |
| IM 602 | Managerial Economics | Core | 12 |
| Year 1: Module 3 | | | |
| GM 600 | Business Research Methods | Core | 12 |
| GM 601 | Business Law and Ethics | Core | 12 |
| FN 601 | Financial Management | Core | 12 |
| Year 2: Module 4 | | | |
| MK 614 | Entrepreneurship and Business Planning | Core | 12 |
| GM 602 | Strategic Management | Core | 12 |
| | Elective 1 | Elective | 12 |
| Year 2: Module 5 | | | |
| | Elective 2 | Elective | 12 |
| | Elective 3 | Elective | 12 |
| | Elective 4 | Elective | 12 |
| Year 2: Module 6 | | | |
| BS 699 | Dissertation | Core | 90 |

Specializations

| Course Code | Course Title | Status | Credits |
|---|---|----------|---------|
| Accounting Electives | | | |
| AC 603 | Management Accounting for Decision Making | Elective | 12 |
| AC 604 | Advanced Auditing and Investigation | Elective | 12 |
| AC 605 | Advanced Taxation | Elective | 12 |
| AC 606 | Advanced Financial Reporting | Elective | 12 |
| AC 607 | Advanced Forensic Accounting and Fraud Investigation | Elective | 12 |
| AC 608 | Advanced Accounting Information Systems | Elective | 12 |
| AC 609 | Advanced Corporate Governance and Social Responsibility | Elective | 12 |
| AC 610 | Accounting for Environment and Natural Resources | Elective | 12 |
| AC 611 | Advanced Financial Statement Analysis | Elective | 12 |
| Finance Electives | | | |
| FN 602 | Financial Institutions and Markets | Elective | 12 |
| FN 603 | Public Sector Financial Management | Elective | 12 |
| FN 604 | Monetary Theory and Policies | Elective | 12 |
| FN 605 | International Business Finance | Elective | 12 |
| FN 606 | Advanced Corporate Finance | Elective | 12 |
| FN 607 | Financial Planning and Analysis | Elective | 12 |
| FN 609 | Personal and Social Security Finance | Elective | 12 |
| FN 610 | Micro Finance | Elective | 12 |
| FN 614 | Investment Analysis and Portfolio Management | Elective | 12 |
| FN 615 | Bank Management | Elective | 12 |
| Human Resources Electives | | | |
| GM 603 | Organization Theory | Elective | 12 |
| HR 602 | Labour Law | Elective | 12 |
| HR 603 | Human Resources Planning and Recruitment | Elective | 12 |
| HR 606 | Industrial Relations | Elective | 12 |
| HR 609 | Human Resource Training and Development | Elective | 12 |
| HR 610 | International Human Resources Management | Elective | 12 |
| HR 612 | Strategic Human Resources Management | Elective | 12 |
| HR 613 | Performance and Rewards Management | Elective | 12 |
| HR 614 | Organization Behaviour | Elective | 12 |
| Operations/Procurement Electives | | | |
| IM 603 | Operations Research | Elective | 12 |
| IM 604 | Procurement Management | Elective | 12 |
| IM 605 | Advanced Management Information Systems | Elective | 12 |
| IM 623 | Total Quality Management | Elective | 12 |

| | | | |
|----------------------------|---|----------|----|
| IM 624 | Supply Chain Management | Elective | 12 |
| IM 626 | Project Planning and Management | Elective | 12 |
| | Accounting Option | | |
| IM 630 | Inventory Management | Elective | 12 |
| IM 642 | International Procurement Management | Elective | 12 |
| Marketing Electives | | | |
| MK 603 | Consumer Behaviour | Elective | 12 |
| MK 615 | Strategic Marketing | Elective | 12 |
| MK 606 | Marketing Research | Elective | 12 |
| MK 607 | Marketing Communications | Elective | 12 |
| MK 608 | International Marketing | Elective | 12 |
| MK 610 | Marketing of Services | Elective | 12 |
| MK 612 | Branding and Pricing Strategies | Elective | 12 |
| MK 613 | Marketing Distribution Systems and Sales Management | Elective | 12 |

6. Programme Evaluation and Examinations

Each subject is evaluated by:

- i. Continuous assessment of coursework that carries 50% of the final marks;
- ii. Examination at the end of each semester, for 50% of the final marks; and
- iii. The pass mark of each examinable course is a B (50%).

7. Other Regulations

- i. A candidate with a GPA of less than 2.7 in an academic year shall be deemed to have failed completely and will be discontinued.
- ii. A candidate failing in any number of courses in an academic year and who has a GPA of not less than 2.7 shall be deemed to have marginally failed and will be allowed to supplement the failed course(s).
- iii. The passing grade for a supplementary examination shall be a “B” regardless of the marks obtained.
- iv. Candidates who fail supplementary examinations (i.e. scoring less than a “B”) shall be allowed to carry over the course(s).
- v. Candidates who fail the coursework shall not be allowed to proceed for research work leading to the writing of a dissertation.

MASTER OF ENTREPRENEURSHIP AND ENTERPRISE DEVELOPMENT

1. Introduction

The current enterprise profile in Tanzania features a small but growing number of private corporate entities, a few large state-owned firm sectors under privatisation, an underdeveloped small and medium size (SME) segment and a very large and growing informal micro sector. The formal economy is currently providing 40,000 new jobs annually for 700,000 new entrants into the job market. There are approximately 1.8 million enterprises – mostly informal.

This programme is housed in the Department of Marketing.

2. Objectives of the Programme

The MEED gives the students a balanced blend of macro and micro courses that are necessary to enable them to appreciate the linkages between macro policy issues related to trade management, micro strategy issues related to and business management, in view of increased international business interactions. In this regard, the MEED is a professional postgraduate degree programme designed to create world-class trade policy and business managers, who can serve the real needs of governments, businesses, and other institutions that pursue a trade and international business agenda. Its general and individual and institutional capacity building objectives are highlighted below.

3. Entry Requirements

- i. Holders of a First or Second-class honours degree of the University of Dar es Salaam or its equivalent from another approved University or higher learning institution.
- ii. Holders of a pass degree who have at least 5 years of working experience after graduation plus a postgraduation training of at least 6 months.
- iii. Holders of Advanced Diploma from a recognized higher learning institution with a minimum of upper second class plus a postgraduate diploma.
- iv. Holders of recognized professional qualifications (CPA, ACCA, CMA, CPA, CSP, CPSP, CIM, etc).

4. Programme Structure

The programme has 14 courses of 36 hours each and runs on modular basis, having 5 modules of 3 weeks each and a project. For about two months, in between the modules, students undertake practical assignments.

5. List of Courses

Programme Structure and Delivery Mode

| | | |
|-----------------|--|------------|
| Module 1 | | |
| MK 620 | Entrepreneurship and Small Business: Context and Process | 9 |
| MK 621 | Enterprise Development | 9 |
| Module 2 | | |
| GM 620 | Regulatory Framework | 9 |
| GM 621 | Governance | 9 |
| GM 622 | Policy Analysis Development and Implementation | 9 |
| Module 3 | | |
| GM 623 | Policy Research Methodology | 9 |
| MK 623 | Formalization | 9 |
| GM 624 | Technology Transfer and Innovation | 9 |
| Module 4 | | |
| MK 630 | Non-Financial Business Development Services (BDS) | 9 |
| FN 636 | Small Business Finance | 9 |
| MK 622 | International Trade and E-Commerce | 9 |
| Module 5 | | |
| GM 632 | Change Management | 9 |
| MK 624 | Communication Skills for Policy Makers | 9 |
| MK 627 | Monitoring and Evaluation of Reforms | 9 |
| Module 6 | | |
| MK 699 | Dissertation | 63 |
| | | |
| | Total | 189 |

6. Programme Evaluation and Examinations

Each subject is evaluated by:

- i. Continuous assessment of coursework that carries 50% of the final marks;
- ii. Examination at the end of each semester, for 50% of the final marks; and
- iii. The pass mark of each examinable course is a B (50%).

7. Other Regulations

- i. A candidate with a GPA of less than 2.7 in an academic year shall be deemed to have failed completely and will be discontinued.
- ii. A candidate failing in any number of courses in an academic year and who has a GPA of not less than 2.7 shall be deemed to have marginally failed and will be allowed to supplement the failed course(s).
- iii. The passing grade for a supplementary examination shall be a “B” regardless of the marks obtained.
- iv. Candidates who fail supplementary examinations (i.e. scoring less than a “B”) shall be allowed to carry over the course(s).
- v. Candidates who fail the coursework shall not be allowed to proceed for research work leading to the writing of a dissertation.

MASTER OF INTERNATIONAL TRADE (MIT)

1. Introduction

The MIT degree programme gives the students a balanced blend of macro and micro courses that are necessary to enable them to appreciate the linkages between macro policy issues related to trade management and micro strategic issues related to business management in view of increased international business interactions. In this regard, the MIT is a postgraduate degree programme designed to create world-class trade policy and business managers, who can serve the real needs of governments, businesses, and other institutions that pursue a trade and international business agenda.

This programme is housed in the Department of Marketing.

2. Objectives of the Programme

The MIT gives the students a balanced blend of macro and micro courses that are necessary to enable them to appreciate the linkages between macro policy issues related to trade management, micro strategy issues and business management, in view of increased international business interactions. In this regard, the MIT is a professional postgraduate degree programme designed to create world-class trade policy and business managers, who can serve the real needs of governments, businesses, and other institutions that pursue a trade and international business agenda. Its general and individual and institutional capacity building objectives are highlighted below.

The general objective of the MIT is to acquaint the individuals with the frontiers of education, research and practice in international trade policy and practice; thereby enabling them to make substantive and more effective contribution to the international trade agenda, and plan and implement more effective trade policy and international business strategies for their institutions (countries, business enterprises, NGOs, etc.). Invariably, the MIT sets trade policy in a broader framework, thereby blending the business, economic, institutional, and social perspectives. Every individual component of the MIT is designed to serve this universal goal.

3. Entry Requirements

- i. Holders of a First or Second-class honours degree of the University of Dar es Salaam or its equivalent from another approved University or higher learning institution.
- ii. Holders of a pass degree who have at least 5 years of working experience after graduation plus a postgraduation training of at least 6 months.
- iii. Holders of Advanced Diploma from a recognized higher learning institution with a minimum of upper second class plus a postgraduate diploma.
- iv. Holders of recognized professional qualifications (CPA, ACCA, CMA, CPA, CSP, CPSP, CIM, etc).

4. Programme Structure

The programme commences in January each year and runs for 18 months (15 months for coursework 3 months for dissertation).

5. List of Courses

Programme Structure and Delivery Mode

Course Mapping for the MIT Programme:

| Course Code | Module 1 | Credits |
|---------------------------------|--|------------|
| MK 640 | International Economics | 10 |
| IB 632 | International Business Environment | 10 |
| TL 627 | Legal Aspects of International Trade and Investment | 10 |
| Module 2 | | |
| MK 641 | Trade, Economic Growth, Competitiveness and Welfare | 10 |
| MK 642 | GATT/WTO Agreements and Multilateral Trading System | 10 |
| MK 643 | Integration Economics and Regional Trading Systems | 10 |
| Module 3 | | |
| MK 644 | Modeling for Trade Policy Analysis | 10 |
| MK 645 | Trade Theory, Trade Policy and Market Access | 10 |
| MK 646 | Economics of Commodity Market | 10 |
| Module 4 | | |
| MK 647 | Trade in Services | 10 |
| IB 637 | Trade and Business Negotiations – Theory, Practice and Management | 10 |
| <i>And one of the following</i> | | |
| MK 649 | Investments in Emerging Markets | 10 |
| MK 650 | Strategic International Marketing for the International Trading System | 10 |
| TL 632 | International Aspects of Intellectual Property Rights | 10 |
| MK 651 | Trade Paper | 10 |
| MK 652 | Trade Negotiation Simulation Project | 10 |
| MK 699 | Dissertation | 60 |
| Total | | 180 |

6. Programme Evaluation and Examinations

Each subject is evaluated by:

- i. Continuous assessment of coursework that carries 50% of the final marks;
- ii. Examination at the end of each semester, for 50% of the final marks; and
- iii. The pass mark of each examinable course is a B (50%).

7. Other Regulations

- i. A candidate with a GPA of less than 2.7 in an academic year shall be deemed to have failed completely and will be discontinued.
- ii. A candidate failing in any number of courses in an academic year and who has a GPA of not less than 2.7 shall be deemed to have marginally failed and will be allowed to supplement the failed course(s).
- iii. The passing grade for a supplementary examination shall be a “B” regardless of the marks obtained.
- iv. Candidates who fail supplementary examinations (i.e. scoring less than a “B”) shall be allowed to carry over the course(s).
- v. Candidates who fail the coursework shall not be allowed to proceed for research work leading to the writing of a dissertation.

MASTER OF INTERNATIONAL BUSINESS (MIB)

1. Introduction

The Masters of International Business (MIB) degree programme is designed to provide students with the knowledge and analytical capabilities to allow them to take leadership role in international business. The program focuses on the essential knowledge, skills, and management techniques required by managers in different sectors to work in international organizations and environments. The MIB degree programme is designed to acquaint students with contemporary knowledge and skills in business disciplines while focusing on the international arena.

This programme is housed in the Department of Marketing

2. Objectives of the Programme

The programme is designed to help students develop strategic business skills necessary to compete in the rapidly changing global economy. This includes the ability to identify and evaluate opportunities, benefits and threats of operating in different international markets and develop innovative thinking, team work, research skills and analytical skills, which are essential for effective management of business in international arena.

3. Entry Requirements

- i. Holders of a first or second-class honours degree of the University of Dar es Salaam or its equivalent from another approved University or higher learning institution.
- ii. Holders of a pass degree who have at least 5 years of working experience after graduation plus a post graduation training of at least 6 months.
- iii. Holders of Advanced Diploma from a recognized higher learning institution with a minimum of upper second class plus a postgraduate diploma.
- iv. Holders of recognized professional qualifications (CPA, ACCA, CMA, CPA, CSP, CPSP, CIM, etc).

4. Programme Structure

The programme commences in April each year and runs for 18 months (15 months for coursework 3 months for dissertation).

5. List of Courses

| Course Code | Module 1 | Credits |
|---------------------------------|---|---------|
| MK 640 | International Economics | 10 |
| IB 632 | International Business Environment | 10 |
| TL 627 | Legal Aspects of International Trade and Investment | 10 |
| Module 2 | | |
| MK 641 | Trade, Economic Growth, Competitiveness and Welfare | 10 |
| FN 605 | International Business Finance | 12 |
| IB 627 | Research Methods for International Business | 10 |
| Module 3 | | |
| IB 628 | International Management | 10 |
| IB 629 | Competition Law and Policy | 10 |
| IB 630 | International Marketing Strategies | 10 |
| Module 4 | | |
| IB 637 | Trade and Business Negotiations – Theory, Practice and Management | 10 |
| IB 631 | International Logistics and Supply Chain Management | 10 |
| <i>And one of the following</i> | | |
| IB 633 | International E-business | 10 |
| MK 649 | Investments in Emerging Markets | 10 |
| IB 634 | International Entrepreneurship | 10 |
| IB 638 | International Marketing Research | 10 |
| IB 635 | Business Paper | 10 |

| | | |
|--------------|---|------------|
| IB 637 | Business Negotiation Simulation Project | 10 |
| MK 699 | Dissertation | 61 |
| Total | | 183 |

6. Programme Evaluation and Examinations

Each subject is evaluated by:

- i. Continuous assessment of coursework that carries 50% of the final marks;
- ii. Examination at the end of each semester, for 50% of the final marks; and
- iii. The pass mark of each examinable course is a B (50%).

7. Other Regulations

- i. A candidate with a GPA of less than 2.7 in an academic year shall be deemed to have failed completely and will be discontinued.
- ii. A candidate failing in any number of courses in an academic year and who has a GPA of not less than 2.7 shall be deemed to have marginally failed and will be allowed to supplement the failed course(s).
- iii. The passing grade for a supplementary examination shall be a “B” regardless of the marks obtained.
- iv. Candidates who fail supplementary examinations (i.e. scoring less than a “B”) shall be allowed to carry over the course(s).

MASTER OF SCIENCE IN INTERNATIONAL TRANSPORT AND LOGISTICS (MSC ITL)

1. Introduction

This is a collaborative degree programme developed by the University of Dar es Salaam Business School, Molde University in Norway and the Arab Academy in Alexandria, Egypt. Its main objective is to train high level manpower in the areas of logistics and transport management in East, Central and Southern Africa.

This programme is housed in the Department of General Management

2. Objectives of the Programme

The overall objective of this programme is to build capacity of experts in the area of logistics and supply chain management. Specifically, the project intends to:

- i. Train high manpower in the areas of logistics and transport management in East, Central, West and Southern Africa;
- ii. Provide knowledge on the areas of logistics and transport management through dissemination of research outputs;
- iii. Enhance and build the capacity of UDDBS and other universities staff through masters and PhD training to develop and deliver the programme in international logistics and Supply chain Management;
- iv. Address the rapidly increasing education demands for graduates and professionals with masterly in transportation and logistics management;
- v. Provide students with a technically oriented and scientific graduate education in core areas and exposure to cutting-edge research in logistics; and
- vi. Produce graduates who can conduct training and advocacy from results obtained after attending the international transportation and logistics programme.

3. Entry Requirements

- i. Holders of a first or second-class honours degree of the University of Dar es Salaam or its equivalent from another approved university or higher learning institution.
- ii. Holders of a pass degree who have at least 5 years of working experience after graduation plus a post graduation training of at least 6 months.
- iii. Holders of Advanced Diploma from a recognized higher learning institution with a minimum of upper second class plus a postgraduate diploma.
- iv. Holders of recognized professional qualifications (CPA, ACCA, CMA, CPA, CSP, CPSP, CIM, etc).

4. Programme Structure

The programme is offered in modular and evening mode.

5. List of Courses

Course Mapping for the Master of Science in International Transport and Logistics Programme:

| Module 1: Core Course | | |
|--|------------------------------------|----|
| IM 620 | Business Logistics Management | 12 |
| TR 656 | International Transport Management | 12 |
| AC 630 | Logistics and Transport Accounting | 12 |
| IM 621 | Applied Statistics | 12 |
| IM 622 | Logistics Information Systems | 12 |
| Module 2: Core Courses | | |
| IM 635 | Operations Management | 12 |
| FN 222 | Investment Analysis | 12 |
| IM 604 | Procurement Management | 12 |
| IM 624 | Supply Chain Management | 12 |
| GM 604 | Business Research Methods | 12 |
| Module 3: Three Core Courses | | |
| GM 602 | Strategic Management | 12 |
| TR 634 | International Transport Law | 12 |
| TR 654 | Seaports and Terminal Management | 12 |
| <i>Two Elective courses from the following</i> | | |
| IM 628 | Distribution Logistics Management | 12 |
| IM 638 | International Transport Insurance | 12 |
| TR 651 | Transport Economics | 12 |
| TR 655 | Logistics of Air Transport | 12 |
| Module 4 | | |
| BS 699 | Dissertation | 90 |

6. Programme Evaluation and Examinations

Each subject is evaluated by:

- Continuous assessment of coursework that carries 50% of the final marks;
- Examination at the end of each semester, for 50% of the final marks; and
- The pass mark of each examinable course is a B (50%).

7. Other Regulations

- A candidate with a GPA of less than 2.7 in an academic year shall be deemed to have failed completely and will be discontinued.
- A candidate failing in any number of courses in an academic year and who has a GPA of not less than 2.7 shall be deemed to have marginally failed and will be allowed to supplement the failed course(s).
- The passing grade for a supplementary examination shall be a “B” regardless of the marks obtained.
- Candidates who fail supplementary examinations (i.e. scoring less than a “B”) shall be allowed to carry over the course(s).

MASTER OF FINANCE AND ACCOUNTING IN OIL AND GAS (MFA OG)

1. Introduction

It is crucial to understand the business environment required to facilitate strengthening of linkages between the oil and gas sector and other economies around the sector for sustainable development. Creation and enhancement of this knowledge is possible in the presence of postgraduate programmes.

This programme is housed in the Department of Finance and Department of Accounting.

2. Objective of the Programme

The overall goal of the MFA - OG is to equip students and managers with critical knowledge and skills on advanced financial and risk management as well as costing and taxation, while taking into consideration the economics of oil and gas markets, oil and gas policies and regulatory framework as well as the national and international business environment.

3. Entry Requirements

- i. A first or second class honours degree in the area of commerce and management (or business administration), economics and actuarial science from recognised higher learning institutions.
- ii. A pass degree (in the area of commerce and management (or business administration), economics and actuarial science from recognised higher learning institutions) and two-year work experience after graduation plus postgraduate training of at least six months.
- iii. An advanced diploma in the area of commerce and management (or business administration), economics and actuarial science from recognised higher learning institutions/ universities plus a postgraduate diploma.
- iv. First degree plus masters or 12 months postgraduate diploma in the area of commerce and management (or business administration), economics and actuarial science from recognised higher learning institutions/ universities, plus at least two-year experience in areas related to the oil and gas industry.

4. Programme Structure

The MFA - OG is an 18-month programme composed of two semesters of coursework and one semester for dissertation. The first semester will have 6 courses (60 credits) that are compulsory for all students. In the second semester, students will take five core courses (50 credits) and one elective course (10 credits). The elective courses will give the students an opportunity to concentrate on either finance or accounting. Students will do research leading to a dissertation to be submitted in partial fulfilment of the requirements for the award of Master of Finance and Accounting in Oil and Gas of the University of Dar es Salaam. The dissertation will have 60 credits. A minimum of ten students will be required to offer an elective course.

5. List of courses

| Course Code | Course Title | Credits |
|--------------------|--|----------------|
| Year 1 | | |
| Semester I | | |
| AC 600 | Financial and Managerial Accounting | 12 |
| FN 601 | Financial Management | 12 |
| GM 600 | Business Research Methods | 10 |
| GM 630 | Fundamentals of Oil and Gas | 10 |
| FN 617 | The Oil and Gas Businesses | 10 |
| AC 612 | Oil and Gas Environmental Management and Accounting | 10 |
| Semester II | | |
| AC 615 | Fiscal Systems for the Oil and Gas Industry | 10 |
| FN 616 | Financial Econometrics | 10 |
| FN 619 | Oil and Gas Project Finance | 10 |
| FN 621 | Enterprise Risk Management for the energy Industry | 10 |
| AC 616 | Oil and Gas Governance and Auditing | 10 |
| | <i>Options Basket</i> | |
| FN 620 | Investment Analysis and Valuation for the Oil & Gas Industry | 10 |
| AC 613 | Management Accounting for Oil and Gas Industry | 10 |
| AC 614 | Financial Reporting for Oil and Gas Industry | 10 |
| FN 623 | Resource revenues and sovereign Wealth Management | 10 |
| Year 2 | | |
| Semester I | | |
| Code | Course Title | Credits |
| GM 699 | Dissertation | 60 |

6. Programme Evaluation and Examinations

Each subject is evaluated by:

- i. Continuous assessment of coursework that carries 50% of the final marks;
- ii. Examination at the end of each semester, for 50% of the final marks; and
- iii. The pass mark of each examinable course is a B (50%).

7. Other Regulations

- i. A candidate with a GPA of less than 2.7 in an academic year shall be deemed to have failed completely and will be discontinued.
- ii. A candidate failing in any number of courses in an academic year and who has a GPA of not less than 2.7 shall be deemed to have marginally failed and will be allowed to supplement the failed course(s).
- iii. The passing grade for a supplementary examination shall be a “B” regardless of the marks obtained.
- iv. Candidates who fail supplementary examinations (i.e. scoring less than a “B”) shall be allowed to carry over the course(s).

PhD PROGRAMMES OFFERED BY THE UNIT

DOCTOR OF PHILOSOPHY IN BUSINESS ADMINISTRATION (PhD BA)

1. Introduction

The PhD BA programme prepares graduates for careers in research, teaching, and consulting in various functional areas of business. Graduates are expected to make significant contributions to the advancement of knowledge of business practices through research and consulting, and disseminate such knowledge through their teaching.

This is a School wide programme.

2. Objectives of the Programme

The PhD BA programme prepares graduates for careers in research, teaching, and consulting in various functional areas of business. Graduates are expected to make significant contributions to the advancement of knowledge of business practices through research and consulting, and disseminate such knowledge through their teaching.

3. Entry Requirements

To be admitted, an applicant should possess a Master programme in any Business area.

4. Programme Structure

This is a three-year programme.

5. List of Courses

Not applicable in this programme.

6. Programme Evaluation and Examinations

A thesis cannot be submitted less than two years from the date of registration.

DOCTOR OF PHILOSOPHY IN MANAGEMENT (PhD MANAGEMENT)

1. Introduction

The PhD Program is strongly oriented toward research in a specific discipline in business and management. Emphasis is placed on preparing students to evaluate the state of knowledge in a particular field and to advance it through the application of theories from business and related areas.

This is also a school wide programme.

2. Objectives of the Programme

The programme is designed to provide an exposure and familiarity to different aspects of management and a solid foundation for those who aspire to a career in research and teaching of the disciplines which underlay business administration. The emphasized learning objectives are to:

- i. provide a solid theoretical foundation in management and especially of the area of specialization of the candidate;

- ii. develop individuals capable of conducting original research in areas of management research relevant to the Tanzanian development;
- iii. develop individuals capable of knowledge creation and application of knowledge to solve relevant management challenges facing local and global companies and institutions; and
- iv. develop the candidate's teaching and facilitating skills.

3. Entry Requirements

A candidate shall hold a Master degree of the University of Dar es Salaam or an equivalent Master degree from a recognized institution of higher learning in any area of management

4. Programme Structure

This is a four-year programme comprising one year of coursework and three years of dissertation.

5. List of Courses

| Year 1: Trimester I | | Status | Credits |
|---|--|---------------|----------------|
| GM 701 | Academic Work and Thesis Writing | Core | 20 |
| MK 701 | Entrepreneurship and Innovation | Core | 20 |
| IM 702 | Philosophy of Science and Critical Thinking | Core | 20 |
| Year 1: Trimester II | | | |
| GM 700 | Organization Theory | Core | 20 |
| IM 704 | Research Methodology – Quantitative | Core | 20 |
| | Elective No. 1 | Elective | 20 |
| Year 1: Trimester III | | | |
| IM 706 | Research Methodology – Qualitative | Core | 20 |
| | Elective No. 2 | Elective | 20 |
| | Elective No. 3 | Elective | 20 |
| Year 2 to Year 4 | | | |
| GM 798 | Comprehensive Examination | Core | 0 |
| GM 799 | Dissertation | Core | 360 |
| Marketing Electives (three courses) | | | |
| MK 702 | Marketing Philosophy, Theory and Models | Elective | 20 |
| MK 703 | Contemporary Research in Marketing | Elective | 20 |
| MK 704 | Contemporary Issues in Logistics and Supply Chain Management | Elective | 20 |
| MK 705 | Sustainable Development | Elective | 20 |
| MK 706 | Internationalization of the Firm | Elective | 20 |
| Human Resources Management Electives (three courses) | | | |
| HR 700 | Contemporary Issues in People Management | Elective | 20 |
| HR 701 | Performance Management | Elective | 20 |
| HR 702 | Social and Psychological Aspects of Organizational Behaviour | Elective | 20 |
| HR 703 | Project Management | Elective | 20 |
| HR 704 | Human Resource Economics | Elective | 20 |
| HR 705 | Managing in Cross Cultural Environments | Elective | 20 |
| HR 706 | Organizational Change and Development | Elective | 20 |
| HR 707 | Industrial Relation & Legal Applications | Elective | 20 |
| HR 708 | Seminar Series in Human Resource Management | Elective | 20 |

| <i>Accounting Electives (three courses)</i> | | | |
|--|---|----------|----|
| AC 700 | Financial Accounting Research | Elective | 20 |
| AC 701 | Management Accounting | Elective | 20 |
| AC 702 | Auditing and Governance | Elective | 20 |
| AC 703 | Taxation | Elective | 20 |
| AC 704 | Research Methods in Accounting | Elective | 20 |
| AC 705 | Public Sector Accounting | Elective | 20 |
| <i>Finance Electives (three courses)</i> | | | |
| FN 701 | Quantitative Financial Economics | Elective | 20 |
| FN 702 | Corporate Finance | Elective | 20 |
| FN 703 | Money and Banking | Elective | 20 |
| FN 704 | Derivative Markets | Elective | 20 |
| FN 705 | Public Finance | Elective | 20 |
| FN 706 | International Finance | Elective | 20 |
| FN 707 | Behavioral Finance | Elective | 20 |
| <i>General Management Electives (three courses)</i> | | | |
| GM 703 | Strategic Management | Elective | 20 |
| FN 701 | Quantitative Financial Economics | Elective | 20 |
| IM 700 | Statistical Management Decision Making Tools | Elective | 20 |
| IM 710 | Topics in Technology and Operations Management | Elective | 20 |
| HR 700 | Contemporary Issues in People Management | Elective | 20 |
| MK 702 | Marketing Philosophy, Theory and Models | Elective | 20 |
| IM 711 | Management Information Systems | Elective | 20 |
| FN 703 | Money and Banking | Elective | 20 |
| <i>Tourism Management Electives (three courses)</i> | | | |
| TH700 | Strategic Tourism and Hospitality Management | Elective | 20 |
| TH701 | Tourism and Hospitality Research Topics and Methods | Elective | 20 |
| TH702 | Methodology for Quality in Tourism Education | Elective | 20 |
| TH 703 | Tourism Destination Management | Elective | 20 |
| TH 704 | Time Series Analysis and Forecasting In Tourism | Elective | 20 |
| <i>Agribusiness Electives (three courses)</i> | | | |
| MK 705 | Sustainable Development | Elective | 20 |
| MK 706 | Internationalization of the Firm | Elective | 20 |
| MK 707 | Gender & Agribusiness Entrepreneurship | Elective | 20 |
| MK 708 | Contemporary Issues on Agribusiness and Agricultural Value Chain Analysis | Elective | 20 |
| MK 709 | Rural Entrepreneurship | Elective | 20 |
| MK 710 | Dissertations in Entrepreneurship- A critical Review | Elective | 20 |

6. Programme Evaluation and Examinations

A thesis cannot be submitted less than two years from the date of registration.

DOCTOR OF PHILOSOPHY IN OPERATIONS RESEARCH (PhD OR)

1. Introduction

PhD in Operations Research is a four years programme by coursework of which one and half years is for coursework and two and half years is for the dissertation. It is one of its kind in the Eastern African region which has been established by the University of Dar es Salaam, University of Nairobi and the University of

Makerere as a response to the growing needs in both public and private sector for people with analytical skills to support and improve decision making in areas such as business analytics, marketing analysis, logistics planning, decisions analysis, production planning and engineering design.

During the coursework phase, the students will be trained on various aspects, including statistical decision-making tools, deterministic operations research techniques, stochastic operations research techniques, mathematical modelling, research methods and special Operations Research topics in transportation, marketing, management information systems and finance.

This programme is housed in the Department of General Management

2. Objectives of the Programme

The objective of this programme is to provide graduates with the cutting-edge operations research tools and knowledge needed to compete in the market place. The graduates are expected to have a high level of knowledge in analysing various operations research related problems in their work environment, apply appropriate operations research techniques, and conduct training and advocacy activities from their operations research findings.

3. Entry Requirements

The programme is open to people with a variety of backgrounds in management, science, and economics. This includes management, engineering, architecture, natural science, medicine, social sciences and related fields. Prospective students must possess a Master degree of the University of Dar es Salaam, Nairobi University, Makerere University or an equivalent Master degree from other recognized higher learning institutions with bias in Business, Science (including Mathematics), Engineering, Economics or Statistics.

4. Programme Structure

This is a four-year programme comprising one year of coursework and three years of dissertation.

5. List of Courses

| Course Code | Course Title | Status | Credits |
|-----------------|--|--------|---------|
| Module 1 | | | |
| IM 700 | Statistical Management Decision Making Tools | Core | 20 |
| IM 701 | Deterministic OR Methods | Core | 20 |
| IM 702 | Philosophy of Science and Critical Thinking | Core | 20 |
| Module 2 | | | |
| IM 703 | Stochastic OR Methods | Core | 20 |
| IM 704 | Research Methodology – Quantitative | Core | 20 |
| IM 705 | OR Seminar | Core | 20 |

| Module 3 (one core and two elective courses) | | | |
|---|---|----------|----|
| IM 706 | Research Methodology – Qualitative | Core | 20 |
| MK 700 | Marketing Management Modelling | Elective | 20 |
| IM 707 | Special OR Topics in Transportations | Elective | 20 |
| IM 708 | Special OR Topics in Management Information Systems | Elective | 20 |
| IM 709 | Special OR Topics in Operations Management | Elective | 20 |
| FN 700 | Special OR Topics in Finance | Elective | 20 |

| Module 4 | | | |
|-----------------|---------------------------|----------|-----|
| IM 798 | Comprehensive Examination | Elective | 0 |
| | Module 6 | | |
| IM 799 | Dissertation | Elective | 360 |

6. Programme Evaluation and Examinations

A thesis cannot be submitted less than two years from the date of registration.

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*E. Joseph, BCom, MBA (Dar)
*G. Mkaro, BCom, PGD (IFM), MBA (Dar), CPA (T)
*G. Christopher, Bcom, MA (Dar)
*N. Chamkunde, BCom (Finance)
*G. Mboya, BA, MA (Dar)

*M. Mathias, BSc (Dar)
*R. Samson, BSc (Dar)
* W. Pascal, Bcom, MFA (Dar)
B. Mwego, BBA (Dar), MSc (Essex)
A. Sanga, Bcom (Dar), MSc (Dundee)

Department of General Management

Senior Lecturer and Head

D. A. Rwehumbiza, BSc (Dar), BSc (London), MIT (Dar), PhD (Leipzig)

Associate Professors

U. O. L. Mbamba, BSc (Dar), MBA (Nairobi), Licentiate of Philosophy (Umea), PhD (Dar)

Senior Lecturers

S. S. Kessy, BA, PGD (ISS); MBA (Dar), Licentiate of Philosophy (Umea), PhD (Dar)
E. Tumsifu, BSc, MIS (Dar), Licentiate of Philosophy (Umea), PhD (Dar)
D. A. Rwehumbiza, BSc (Dar), BSc (London), MIT (Dar), PhD (Leipzig)
J. J. Masele, BSc (Morogoro), MIS (Dar), PGD (MSM), PhD (Oldenburg)
G. Salema, BSc (Morogoro), MBA (Dar), PhD (Molde)
P. S. Magai, BSc, MIT (Dar), PhD (Busan)
R. Kanani, BCom (Dar) MSc, PhD (Molde)

Lecturers

***F. Michael, Dip (Marangu), BA, MBA (Dar), Licentiate of Philosophy (Umea), SPGD, PhD (Dar)
J. J. Sanga, BAEd, MBA, PhD (Dar)
T. Dominic, BSc (Morogoro), MBA (Dar), PhD (Göttingen)
Y. Simwita, BCom, MSc, PhD (Molde)
M. Nkuba, BSc, MBA (Dar), PhD (Oldenburg)
G. Magova, BCom, MBA (Dar), CPS (T), PhD (Dar)
G. Tinali, BCom, MITL (Dar), CPSP (T), PhD (Beijing)
M. A. Ame, BA, MBA (Dar), Licentiate (Umea), PhD (Dar)

Assistant Lecturers

*P. Maro, BCom, MBA (Dar)
*V. Wilson, BCom, MBA (Dar)
*B. M. Sakita, BCom (Dar), MSc (Molde)
*B. Tarimo, BCom, MBA (Dar)
*E. Majaliwa, BCom (Dar)
*P. Singogo, BCom (Dar), MSc (MOLDE)
*T. Kabudi, Bsc (Dar)

Tutorial Assistant

Z. G. Mwakila, BA, PSPA (Dar)
A. Livingstone, BCom (Dar)

Department of Marketing

Senior Lecturer and Head

O. K. Mbura, BCom, MBA (Dar), MA (The Hague), Licentiate of Philosophy (Umea), PhD (Dar)

Professor

W. Anderson, BCom, MBA (Dar), MTEE., PhD (Balearics)

Associate Professors

D. Jani, BSc (Morogoro), MBA (Dar), PhD (Busan)
** G. Charles, BCom, MBA (Dar), Licentiate of Philosophy (Umea), PhD (Dar)

Senior Lecturers

J. R. M. Philemon, BCom (Dar), MBA (Kampala), Licentiate of Philosophy (Umea), PhD (Dar)
O. K. Mbura, BCom, MBA (Dar), MA (The Hague), Licentiate of Philosophy (Umea), PhD (Dar)
D. Philemon, BCom, MBA, PhD (Dar)
I. S. Allan, BCom (Dar), MBA (Twente), PhD (Dar)

Lecturers

R. Suphian, BSc (BE), MIT (Dar), PhD (Busan)
W. Nguni, BCom (Dar), MITL (Molde), PhD (Dar)
N. S Maliva, BCom (OUT), MBA (Dar), PhD (Wageningen)
P. Kanje, BCom, MBA , PhD (Dar)
F. P. Okangi, BSc BE , MIT , PhD (Dar)

Assistant Lecturers

*M. Semkunde, BAEd, MIT (Dar)
*D. Rwehikiza, BCom, MITL (Dar)
*P. Maleto BCom (Dar)
P. N. Kahangwa, BSc, MSc (Dar)
H. M. Fintan, BBM (Bangalore), MIT (Dar)

Administrative Staff

Senior Administrative Officer

A. Hussein, AdvDip (ARI), PGD (Dar)
B. K. Mwampunga, BA (PSPA) (Dar), MBA (Wales)

Office Management Secretaries

C. P. Muzale
F. A. Mwankemwa
C. M. Kambeju
A. Chibwana
J. Mbonge
S. Niza
G. Justine
P. Ngole

Administrative Officer

D. Bikongoro, BA (Dar)

Systems Administrator

J. Naale, BSc (Dar)

Accountants

E. R. Mwakemwa
A. E. Kapaga

Procurement Officer

P. Kuhanga, Dip, ADMA (CBE), CPSP (T), MBA (Morogoro)

Library Assistants

R. C. Cristomus
A. L. Mchome

Maintenance (Carpentry, Electricity & Water)

F. B. Soko
I. M. Twallib
D. O. Lutavo

Drivers

C. Matemba
B. N. Mbuya

Clerical Officer

C. A. Mmbaga

Office Attendants

M. Kapesa
D. Ernest

* On Study Leave

** On Sabbatical Leave

*** On Leave of Absence/Secondment

INTRODUCTION

The School of Law is the oldest legal training institute in the Eastern and Southern African region. The School (then Faculty of Law) was established on 25th October 1961, about three months before the independence of the then Tanganyika, to cater for the emerging newly independent States of East Africa; at that time comprising of Kenya, Uganda, Tanganyika and Zanzibar. At its inception, the School was affiliated to the University of London and followed its curriculum. Despite this affiliation, the focus of its curriculum was designed to cater for local situations that were in line with the aspiration of the newly independent States of the region. From inception, therefore, the School's role was principally focused on applied research out of necessity. It had to advise the government in codification of customary law, integration of court systems and matters of constitution making.

For almost three decades after inception, the School offered a three-year Bachelor of Laws (LLB) degree and a Certificate in Law Programme. In October 1999, it started offering a four-year LLB programme. In 2009, the Bachelor of Arts in Law Enforcement (BA Law Enforcement) programme was conceived and implemented. In this regard, the School now offers three undergraduate programmes. At the postgraduate level, the School offers a Specialized Postgraduate Diploma in Law (SPGDL), Master of Laws (LLM), Taught Master of Laws and the Doctor of Philosophy degree.

Regarding administrative arrangement, the School has three Departments which superintend the various courses offered. These are Department of Public Law, Department of Private Law and Department of Economic Law. Each Department superintends the teaching and management of specified courses. Also, the School hosts the Center for the Study of Forced Migration (CFSFM), the Legal Aid Committee (LAC) and the Tanzania German Center for Eastern Africa Legal Studies.

PROGRAMMES OFFERED BY THE SCHOOL

The University of Dar es Salaam School of Law offers Postgraduate Diplomas, Master and PhD programmes in Law as indicated in the table below:

| S/N | Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|-----|--|-----------------------------|------------------|-----------|--------------------|---------------------|
| | | | | | Tanzanian (TZS) | Non-Tanzanian (USD) |
| 1. | Doctor of Philosophy (PhD) in Law | Thesis | Full-time | 36 months | 3,000,000 per year | 4,020 per year |
| 2. | Doctor of Philosophy (PhD) in Law | Thesis | Part-time | 60 months | 3,000,000 per year | 4,020 per year |
| 3. | Postgraduate Diploma in Law (PGDL) | Coursework and Report | Full-time | 12 months | 2,500,000 | 4,020 |
| 4. | Specialised Postgraduate Diploma in Law (SPGDL) | Coursework and Report | Full-time | 12 months | 2,500,000 | 4,020 |
| 5. | Master of Laws (LLM) | Coursework and Dissertation | Full-time | 18 months | 5,000,000 | 6,030 |
| 6. | Master of Laws (LLM) | Thesis | Full-time | 24 months | 7,000,000 | 8,040 |
| 7. | Master of Arts in Revenue Law and Administration | Taught | Full-time | 18 months | 7,000,000 | 8,040 |
| 8. | Master of Laws in Corporate and | Taught LLM | Evening | 18 months | 5,000,000 | 6,030 |

| S/N | Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|-----|---|------------------|------------------|-----------|-----------------|---------------------|
| | | | | | Tanzanian (TZS) | Non-Tanzanian (USD) |
| | Commercial Law | | | | | |
| 9. | Master of Laws in Taxation | Taught LLM | Evening | 18 months | 5,000,000 | 6,030 |
| 10. | Master of Migration and Refugee Law | Taught | Evening | 18 months | 5,000,000 | 6,030 |
| 11. | Master of Laws in Procedural Law and International Legal Practice | Taught LLM | Evening | 18 months | 5,000,000 | 6,030 |
| 12. | Master of Laws in Intellectual Property Law | Taught | Evening | 18 months | 5,000,000 | 6,030 |
| 13. | Master of Intellectual Property (MIP) | | | | | |
| 14. | Master of Laws in Regional Integration and East African Community Law | Taught LLM | Evening | 18 months | 5,000,000 | 6,030 |
| 15. | Master of Laws in Oil and Gas Law | Taught LLM | Evening | 18 months | 5,000,000 | 6,030 |

POSTGRADUATE DIPLOMA PROGRAMMES

There are two categories of postgraduate diplomas offered, namely the Postgraduate Diploma in Law (PGDL) for holders of the LLB degree, and a Specialized Postgraduate Diploma in Law (SPGD) for holders of degrees other than Bachelor of Laws (LLB). The duration of the programme shall be two semesters involving full-time attendance. The diploma shall be graded on a pass or fail basis.

POSTGRADUATE DIPLOMA IN LAW (PGDL)

1. Entry Requirements

To be considered for admission to this programme, a candidate must be a holder of the LLB degree of the University of Dar es Salaam or any accredited university, or one has satisfied the requirement of the award of such degree.

2. Course Structure and Examinations

LW 300 (Jurisprudence I) and LW 306 (Jurisprudence II) shall be compulsory to a candidate who did not do that course at the undergraduate level. The candidate shall be required to select two courses from the list of courses for the LLM degree or one course from that list and such number of courses from undergraduate courses whose total credits should not be less than 120. Examinations for PDGL consist of written examination and coursework. The pass grade for the PGDL shall be "B".

A candidate shall be required to write two postgraduate papers for each LLM course selected. If a candidate takes an undergraduate course, regulations relating to undergraduate courses shall apply provided that the pass grade is "B". If a candidate fails in one course, he/she may, on the recommendation of the School Board, be permitted to re-sit the examination in that course at a supplementary examination. When a candidate fails two or more courses, he/she shall be discontinued.

For a Postgraduate Diploma in Law candidate to graduate, he/she must complete minimum of 120 credits obtained from courses selected by the candidate in the LLM list, including Jurisprudence, when applicable.

SPECIALIZED POSTGRADUATE DIPLOMA IN LAW (SPGDL)

SPDGL is designed to provide specialized training in specific fields of law to holders of degrees other than the LLB. The Primary objective of the SPGDL is to familiarize a student with the essentials of the law pertinent to one's area of professional work and responsibilities.

1. Entry Requirements

To be considered for admission to this programme, a candidate must be a holder of a first degree (which is different from LLB) of the University of Dar es Salaam or an accredited University, or one has satisfied the requirements for the award of the degree.

2. Course Structure and Examinations

LW 703 (Legal Method), LW 706 (Legal Method II), LW 700 (Constitutional Law I) and LW 704 (Constitutional Law II) shall be compulsory to all SPGDL candidates. A candidate shall select a minimum of three (3) elective courses from a list of courses approved by the School Board for the given academic year, provided that SPGDL courses shall bear the "LW 700" series code. Pass grade shall be "B", but candidates shall be required to complete a minimum of 120 credits delivered from compulsory and elective courses in order to qualify for an award of SPGDL. Examinations for SPGDL shall consist of written examinations and coursework.

MASTER PROGRAMMES OFFERED BY UDSoL

MASTER OF LAWS (LLM) PROGRAMMES

There are two Master of Laws programmes at the University of Dar es Salaam School of Law: Regular Master of Laws (LLM) and Specialised Taught Master of Laws.

MASTER OF LAWS (LLM) BY COURSEWORK AND DISSERTATION

1. Programme Structure

The Master of Laws (LLM by coursework and dissertation) is a specialized advanced degree course designed to impart advanced knowledge of the chosen courses through intensive research and a firm theoretical grounding. The general regulations and guidelines for postgraduate study programmes issued from time to time by the Directorate of Postgraduate Studies regulate the LLM programme.

The total credits for LLM by coursework and dissertation shall be 180 credits comprising 120 credits from four core courses and four elective courses, as well as 60 credits derived from dissertation after conducting a thorough field/empirical research. The coursework credits must be completed prior to an LLM candidate being permitted to proceed to dissertation part.

2. Entry Requirements

To be considered for admission to this programme, a candidate must be a holder of the LLB degree of the University of Dar es Salaam or any accredited university or has satisfied the requirements for the award of such degree provided that the said LLB degree shall be of a GPA of 3.0 or above.

Every applicant shall, when lodging an application for admission, indicate the category of LLM he/she intends to pursue and courses (where relevant) to be taken.

3. Duration and Programme Format

The LLM programme traditionally shall be completed within 18 months, 12 months for coursework phase and 6 months for dissertation writing.

4. Objectives of the Programme

(a) General Objective

The general objective of LLM by coursework and dissertation is to provide trainees with both advanced and specialised knowledge and skills in selected areas of legal studies.

(b) Specific Objectives

The specific objectives of the LLM by coursework and dissertation are to:

- i. provide advanced training specific to selected areas of law;
- ii. provide advanced theoretical foundations with regard to selected areas of study;
- iii. expose students to advanced legal research skills; and
- iv. provide trainees with knowledge on rules, procedures and skills for solving day to day complex legal problems.

5. List of Courses

Public Law Stream

Core Courses

| Course Code | Course Title | Credits |
|-------------|-----------------------------|---------|
| LW 677 | Advanced Civil Procedure | 15 |
| LW 678 | Advanced Criminal Procedure | 15 |
| LW 679 | Advanced Evidence Law | 15 |
| LW 616 | Graduate Research Seminar | 15 |
| LW 699 | LLM Dissertation | 60 |

Elective Courses (minimum of 4 courses)

| Course Code | Course Title | Credits |
|-------------|---|---------|
| LW 606 | Arbitration and Alternative Dispute Resolution Law | 15 |
| LW 617 | Conflict Resolution Law | 15 |
| LW 620 | Criminology and Penology | 15 |
| LW 624 | Environmental Law | 15 |
| LW 621 | Cultural Property and Antiquities Law | 15 |
| LW 626 | Health Law | 15 |
| LW 628 | International Human Rights Law | 15 |
| LW 633 | International Humanitarian Law | 15 |
| LW 631 | Law of Economic Integration | 15 |
| LW 634 | Law of International Organisations | 15 |
| LW 641 | Local Government Law | 15 |
| LW 645 | Natural Resources Law | 15 |
| LW 649 | Refugee Law | 15 |
| LW 650 | Regulatory Law | 15 |
| LW 651 | Law of the Sea | 15 |
| LW 655 | Telecommunications Law | 15 |
| LW 656 | Constitutional Law | 15 |
| LW 658 | Criminal Procedure and the Protection of Individual Liberty | 15 |
| LW 670 | Administrative Law | 15 |
| LW 671 | Public International Law | 15 |
| LW 674 | International Commercial Arbitration Law | 15 |
| LW 683 | East African Community Law | 15 |

Economic Law Stream

Core Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| LW 607 | Advanced Banking Law | 15 |
| LW 613 | Advanced Consumer and Commercial Transactions Law | 15 |
| LW 615 | Advanced Competition Law | 15 |
| LW 616 | Graduate Research Seminar | 15 |
| LW 699 | LLM Dissertation | 60 |

Elective Courses (minimum of 4 courses)

| Course Code | Course Title | Credits |
|--------------------|-------------------------------------|----------------|
| LW 604 | Agency and Bailment Law | 15 |
| LW 605 | Air and Space Law | 15 |
| LW 608 | Business Associations Law | 15 |
| LW 610 | Capital Markets and Securities Law | 15 |
| LW 611 | Law of Carriage | 15 |
| LW 618 | Construction Law | 15 |
| LW 619 | Conveyancing Law | 15 |
| LW 627 | Hire Purchase Law | 15 |
| LW 629 | Insolvency Law | 15 |
| LW 630 | Advanced Insurance Law | 15 |
| LW 632 | Intellectual Property Law | 15 |
| LW 635 | International Trade and Finance Law | 15 |
| LW 637 | Investment Law | 15 |
| LW 639 | Labour Law | 15 |
| LW 640 | Landlord and Tenant Law | 15 |
| LW 644 | Law of Mortgages | 15 |
| LW 646 | Law of Negotiable Instruments | 15 |
| LW 647 | Planning Law | 15 |
| LW 652 | Social Security Law | 15 |
| LW 654 | Tax Law | 15 |
| LW 657 | Law of Contract | 15 |
| LW 672 | Land Law | 15 |

Private Law Stream

Core Courses

| Course Code | Course Title | Credits |
|--------------------|---------------------------|----------------|
| LW 659 | Legal Method | 15 |
| LW 673 | Law of Torts | 15 |
| LW 675 | Jurisprudence | 15 |
| LW 616 | Graduate Research Seminar | 15 |
| LW 699 | LLM Dissertation | 60 |

Elective Courses (minimum of 4 courses)

| Course Code | Course Title | Credits |
|--------------------|--|----------------|
| LW 609 | Canon Law | 15 |
| LW 606 | Arbitration and Alternative Dispute Resolution Law | 15 |
| LW 612 | Law of the Child | 15 |
| LW 614 | Comparative Law | 15 |
| LW 622 | Customary Law | 15 |
| LW 623 | Entertainment Law | 15 |
| LW 625 | Gender and the Law | 15 |
| LW 636 | Computer Law and the Internet | 15 |

| | | |
|--------|--|----|
| LW 638 | Islamic Law | 15 |
| LW 642 | Maritime Law | 15 |
| LW 643 | Media Law | 15 |
| LW 648 | Private International Law (Conflict of Laws) | 15 |
| LW 653 | Law of Succession | 15 |
| LW 676 | Family Law | 15 |
| LW680 | Professional Ethics, Office Management and Accounting of Lawyers | 15 |
| LW 681 | Advocacy Skills | 15 |
| LW 682 | Law of Trusts | 15 |

6. Assessment

For courses in which a candidate opts to proceed by way of class/lecture attendance, assessment shall be done through two complementary methods, namely Continuous Assessment (CA) and final University Examinations (UE). The Continuous Assessment will be carried out through seminar presentations, individual assignments (take-home assignment) and/or timed tests and shall be allocated 40% of the total marks for the course. The final University Examination shall be allocated the remaining 60% of the total marks. The pass mark for all courses shall be 50%.

For a candidate who opts to proceed by way of advanced research papers (as opposed to lecture/class attendance), the papers shall be marked out of 100%. The topic of the paper shall be chosen by the candidate on a theme related to the course. The paper shall be marked out of 100%. The pass mark shall also be 50%.

TAUGHT LLM PROGRAMMES

The programme may be taken in eighteen months (full-time) or in two years (part-time), and the schedule is designed to allow attendance by those in full-time employment. In addition to the prescribed list of mandatory/core courses, students are free to choose a combination of elective courses best suited to their respective professional needs and personal interests.

The award of the Taught LLM degree will only follow, upon successful completion of examinations in the appropriate number of courses, and a Graduate Essay.

TAUGHT LLM IN CORPORATE AND COMMERCIAL LAW

1. Structure of the Programme

The LLM in Corporate & Commercial Law requires the study of taught course units to a minimum total value of 180 Credits. At least 90 of these course credits must be within the area of corporate and/or business law covering the compulsory courses and elective courses selected from a designated list. All taught courses offered under the programme shall be worth 15 credits, save for the Graduate Essay which shall carry 60 credits.

2. Entry Requirements

The admission process will follow the guidelines provided by the Tanzania Commission for Universities (TCU) and in accordance with the University of Dar es Salaam regulations regarding postgraduate studies. For admission into the LLM in Corporate and Commercial Law Programme, an applicant must hold an honours degree of the University of Dar es Salaam or an equivalent degree from another university accredited by the national accreditation authority, or has satisfied the requirements of such degree, with a GPA of 2.7. A candidate with a pass degree may also be considered for admission if his/her undergraduate GPA is at least 2.5, and he/she has satisfied the University of Dar es Salaam-School of Law with the academic potential through subsequent work or research experience and/or additional training.

3. Objectives of the Programme

(a) General Objective

The main objective is to provide in-depth training on the foundations of the contemporary legal principles

that govern commercial and corporate transactions in such a way that students will be exposed to new dimensions of corporate and commercial law and be able to continually work in the changing business and corporate environment.

(b) Specific Objectives

The specific objectives of the taught Master of Laws in Corporate and Commercial Law are to:

- i. introduce new dimensions of the legal issues on corporate and business transactions;
- ii. explain the legal and policy implications of bilateral and multilateral trading framework;
- iii. demonstrate the trends and dynamic nature of the corporate and business law; and
- iv. study corporate and commercial law in the light of information, communication and technology revolution.

4. Duration of the Programme

The Taught LLM in Corporate and Commercial Law is an 18-month evening programme, combining coursework and a Graduate Essay. The coursework part of the programme should ordinarily be completed within a period of two semesters. The Graduate Essay component is undertaken hand in hand with other courses in the programme, especially from the second semester to ensure that students graduate within 18 months of enrolment.

5. List of Courses

Core Courses

| Course Code | Course Title | Credits |
|-------------|--|---------|
| LW 696 | Advanced Corporate Law | 15 |
| LW 607 | Advanced Banking Law | 15 |
| LW 697 | Advanced Specialised Commercial Entities | 15 |
| LW 695 | Advanced Payment Systems Law | 15 |
| LW 616 | Graduate Research Seminar | 15 |
| LW 699 | Graduate Essay | 60 |

Elective Courses (minimum of 3 courses)

| Course Code | Course Title | Credits |
|---------------|--|---------|
| LW 694 | Advanced Economic and Cybercrimes Law | 15 |
| LW 615 | Advanced Competition Law | 15 |
| LW 613 | Advanced Commercial and Consumer Transactions Law | 15 |
| LW 630 | Advanced Insurance Law | 15 |
| LW 600 series | Course(s) from other LLM programmes subject to approval by respective programme coordinators | 15 |

6. Assessment

Each course in the LLM in Corporate and Commercial Law programme shall be assessed through coursework (Continuous Assessment) and final University Examination. The coursework will be assessed on the basis of seminar presentations and individual assignment (take-home assignment). The coursework shall carry 40% of the overall marks and final examination shall carry 60%.

TAUGHT LLM IN TAXATION

1. Structure of the Programme

The programme is structured around a total of eight (8) taught courses. These include five (5) compulsory courses and three (3) electives, plus a Graduate Essay. Students will be required to complete 180 credits. Of these 180 credits, 75 credits will be for core courses, 45 units for elective courses and the remaining 60 credits for a Graduate Essay.

2. Entry Requirements

To be considered for admission into LLM in Taxation, a candidate must be a holder of the LLB degree of the University of Dar es Salaam or an equivalent degree from another University accredited by the national accreditation authority, or has satisfied the requirements of such degree, provided that the minimum GPA is 2.7 or above.

A candidate with a pass degree may also be considered for admission if his/her undergraduate GPA is at least 2.5 and he/she has satisfied the University of Dar es Salaam School of Law with the academic potential through subsequent work or research experience and/or additional training for at least a period of six months.

3. Objectives of the Programme

(a) General Objective

The main objective of this course is to train graduate students on principles and law on income taxation. Students will also acquire complete skills in understanding and application of the income tax law and its future developments.

(b) Specific Objectives

The specific objectives of the Taught LLM in Taxation are to:

- i. produce tax law practitioners who are fully versed to handle most of the aspects of tax law covering different taxes, skills in tax litigation, tax prosecutions and how taxation relates to other socio-political and economic systems;
- ii. develop a cadre of skilled tax law practitioners, tax consultants and competent tax personnel for public institutions, the Government and the private sector;
- iii. promote and develop postgraduate tax law education in Tanzania and beyond;
- iv. create awareness of the need for in-depth research in tax law; and
- v. promote interest and research in tax law.

4. Duration of the Programme

The Taught LLM in Taxation is an 18-month evening programme, combining coursework and a Graduate Essay. The coursework part of the programme should ordinarily be completed within a period of two semesters. The Graduate Essay component is undertaken hand in hand with other courses in the programme, especially starting from the second semester in order to ensure that students graduate within 18 months of enrolment.

5. List of Courses

Core Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| LW 665 | Tax Policy and Theory | 15 |
| LW 666 | Income Tax Law | 15 |
| LW 668 | Laws on Tax Administration and Taxpayers Rights | 15 |
| LW 686 | Indirect Taxes | 15 |
| LW 616 | Graduate Research Seminar | 15 |
| LW 699 | Graduate Essay | 60 |

Elective Courses (minimum of 3 courses)

| Course Code | Course Title | Credits |
|-------------|---|---------|
| LW 667 | Taxes on International Trade | 15 |
| LW 669 | International Taxation | 15 |
| LW 688 | Capital Gains and Taxes on Property | 15 |
| LW 689 | Tax Crimes: Investigations and Prosecutions | 15 |
| LW 692 | Local Government Taxation | 15 |
| LW 635 | Private International Trade and Finance Law | 15 |
| LW 693 | Advanced Taxation | 15 |

6. Assessment

Save for the Graduate Essay, all courses in the Taught LLM in Taxation shall be assessed through a combination of continuous assessment (coursework) and final university examination. The coursework is set to have 40% and the final written examination carries 60%. The Graduate Essay shall be graded out of 100%. Each course will be examined separately and passed at the level of B grade, aggregated from the coursework and the final examination.

TAUGHT LLM IN PROCEDURAL LAW AND INTERNATIONAL LEGAL PRACTICE

1. Structure of the Programme

The programme is structured around a total of eight (8) taught courses. These include five (5) core courses and three (3) electives, plus a Graduate Essay. Students will be required to complete 180 credits. Of these 180 credits, 75 credits will be for core courses, 45 units for elective courses and the remaining 60 credits for a Graduate Essay.

2. Entry Requirements

To be considered for admission into this programme, a candidate must be a holder of the LLB degree of the University of Dar es Salaam or an equivalent degree from another University accredited by TCU, or has to satisfy the requirements of such degree, provided that the said LLB degree shall be of a minimum GPA of 2.7 or above.

3. Objectives of the Programme

(a) General Objective

The taught LLM in Procedural Law and International Legal Practice is aimed at providing trainees with both advanced and specialised knowledge of rules of practice and procedure of domestic courts, international arbitral tribunals, as well as regional and global judicial bodies.

(b) Specific Objectives

The specific objectives of the LLM in Procedural Law and International Legal Practice are to:

- i. provide advanced training specific procedural issues in criminal trials and civil litigation;
- ii. expose students to procedures applicable in proceedings before specialised branches of the High Court and other judicial bodies;
- iii. provide trainees with knowledge of the rules, procedures and skills, for settling commercial disputes before international disputes settlement mechanisms; and
- iv. equip trainees with knowledge of rules and procedures followed before international public law bodies including regional courts, human rights bodies and international criminal tribunals.

4. Duration of the Programme

The Taught LLM in Procedural Law and International Legal Practice is the 18-month evening programme combining coursework and a Graduate Essay. The coursework part of the programme should ordinarily be completed within a period of two semesters. The Graduate Essay component is undertaken hand in hand with other courses in the programme especially starting from the second semester in order to ensure that students graduate within 18 months of enrolment.

5. List of Courses

Core Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| LW 677 | Advanced Civil Procedure | 15 |
| LW 678 | Advanced Criminal Procedure | 15 |
| LW 691 | Procedure and Practice in International Judicial Bodies | 15 |
| LW 674 | International Arbitration Law | 15 |
| LW 616 | Graduate Research Seminar | 15 |
| LW 699 | Graduate Essay | 60 |

Elective Courses (minimum of 3 courses)

| Course Code | Course Title | Credits |
|--------------------|---|----------------|
| LW 679 | Advanced Evidence Law | 15 |
| LW 606 | Alternative Dispute Resolution (ADR) | 15 |
| LW 683 | East African Community Law | 15 |
| LW 649 | Refugee Law | 15 |
| LW 687 | Labour Migration Law | 15 |
| LW 628 | International Human Rights Law | 15 |
| LW 633 | International Humanitarian Law | 15 |
| LW 631 | Regional Integration Law | 15 |
| LW 684 | Immigration Law | 15 |
| LW 658 | Criminal Procedure and the Protection of Individual Liberty | 15 |
| LW 690 | International Criminal Law | 15 |

6. Assessment

Students will be assessed through two complementary methods. Coursework shall carry 40% while the University Final Examination will carry a total of 60% marks. The coursework component will consist of individual assignment weighing 20% marks, and a tutorial seminar weighing 20%. In lieu of a tutorial seminar, students may do a test for duration of 1 hour which will weigh 20 marks.

TAUGHT LLM IN INTELLECTUAL PROPERTY LAW

1. Structure of the Programme

The programme is structured around a total of seven (7) taught courses. These include five (5) core courses and two (2) electives, plus a Graduate Essay. Students will be required to complete 180 credits. Of these 180 credits, 90 credits will be for core courses, 30 credits for elective courses and the remaining 60 credits for a Graduate Essay.

2. Entry Requirements

To be considered for admission into this programme, a candidate must be a holder of the LLB degree of the University of Dar es Salaam or an equivalent from another university accredited by the national accreditation authority, or has to satisfy the requirements of such degree provided that the said LLB degree shall be of a minimum GPA of 3.0.

A candidate with the LLB degree with at least a GPA of 2.7 may be considered for admission if he or she has satisfied the University of Dar es Salaam School of Law with the academic potential through subsequent work or research experience and/or additional training

3. Objectives of the Programme

a) General Objective

The underlying overall objective of the programme is to provide an in-depth training and research platform to students on wide dimensions and interface of intellectual property policy and regulatory issues as they apply in a broad spectrum of society developmental issues. The focus is to develop a tailor-made approach that suits lawyers and law enforcement agencies, and delve into the best intellectual property rights approaches that can be used to achieve developmental goals while considering the context and obtaining circumstances in a particular environment.

b) Specific Objectives

The specific objectives of the LLM in Intellectual Property Law are to:

- i. equip students with substantive understanding and application of intellectual property rights at the local, regional and international levels;

- ii. enable students understand the protection mechanism and various commercialization options of the IP assets available to creators and users of IP related assets;
- iii. impart negotiation skills in technology transfer and investment agreements, in particular on the role of intellectual property rights in such deals;
- iv. prepare the generation that will take a lead in participation and formulation of the appropriate policy and laws on intellectual property that reflect the context and level of development of a particular country;
- v. empower students with knowledge and skills in critical analysis of international, regional and national intellectual property rights, policies and trade regulations;
- vi. provide education and training on intellectual property rights;
- vii. provide service to the profession and society by interpreting intellectual property rights system so as to assist policymakers and regulators in formulating informed policies, regulations, and decisions;
- viii. provide students with comprehensive knowledge in intellectual property rights that will allow them to be successful in their chosen careers;
- ix. conduct a basic and applied research that provides fundamental knowledge about intellectual property rights; and
- x. provide graduates with adequate knowledge and skills to enable them to assist inventors of new products and processes as well as creators of artistic works to protect their invention and harness value from their creative works.

4. Duration of the Programme

The Taught LLM in Intellectual Property Law is an 18-month evening programme combining coursework and a Graduate Essay. The coursework part of the programme should ordinarily be completed within a period of two semesters. The Graduate Essay component is undertaken hand in hand with other courses in the programme, especially starting from the second semester in order to ensure that students graduate within 18 months of enrolment.

5. List of Courses

Core Courses

| Course Code | Course Title | Credits |
|-------------|--|---------|
| LW 600 | General Issues of IP System | 30 |
| LW 601 | Patents, Industrial Designs and Innovation | 15 |
| LW 697 | Intellectual Property Policy Making | 15 |
| LW 698 | Intellectual Property and Development | 15 |
| LW 616 | Graduate Research Seminar | 15 |
| LW 699 | Graduate Essay | 60 |

Elective Courses (minimum of 2 courses)

| Course Code | Course Title | Credits |
|-------------|---|---------|
| LW 602 | Trade and Service Marks | 15 |
| LW 603 | Copyright and Neighboring Rights | 15 |
| LW 660 | Law on Biotechnology and Plant Breeders Rights | 15 |
| LW 661 | Intellectual Property and Genetic Resources, Protection of Traditional Knowledge and Folklore | 15 |
| LW 662 | Intellectual Property for SMEs and Large Enterprises | 15 |
| LW 663 | International Intellectual Property Rights System | 15 |
| LW 664 | Intellectual Property Strategy | 15 |
| LW 635 | Private International Trade and Finance Law | 15 |
| LW 683 | East African Community Law | 15 |

6. Assessment

Each course in the LLM in Intellectual Property Law programme shall be assessed through coursework (Continuous Assessment) and final University Examinations (UE). The coursework will be assessed on the basis of seminar presentations and individual assignments (take-home assignments). The coursework shall

carry 40% while the UE will carry a total of 60% marks. The coursework component will consist of individual assignment weighing 20% marks and a tutorial seminar weighing 20%. In lieu of a tutorial seminar, students may do a test for duration of 1 hour which will weigh 20 marks.

TAUGHT LLM IN REGIONAL INTEGRATION AND EAST AFRICAN COMMUNITY LAW

1. Structure of the Programme

The programme is structured around a total of eight (8) taught courses. These include five (5) core courses and three (3) electives, plus a dissertation. Students will be required to complete 180 credits. Of these 180 credits, 75 credits will be for core courses, 45 credits for elective courses and the remaining 60 credits for a Dissertation.

2. Entry Requirements

To be considered for admission into this programme, a candidate must be a holder of the LLB degree of the University of Dar es Salaam or an equivalent degree from another University accredited by the national accreditation authority, or one has to satisfy the requirements of such degree, PROVIDED that the said LLB degree shall be a minimum GPA of 3.0 or above.

A candidate with the LLB degree with at least a GPA of 2.7 may be considered for admission if he or she has satisfied the University of Dar es Salaam School of Law with the academic potential through subsequent work or research experience and/or additional training.

3. Objectives of the Programme

a) General Objective

The general objective of the LLM in Regional Integration and East African Community Law programme is to equip trainees with both advanced and specialized knowledge in regional and EAC integration laws.

b) Specific Objectives

The specific objectives of the LLM in Regional integration and East African Community Law are to:

- i. provide advanced training on specific rules and practices relating to regional integration models in the world;
- ii. expose to the students the Treaty for the Establishment of the EAC, particularly its legal relationship with and implications on national laws of partner states;
- iii. expose students to the four-stage integration model adopted in the EAC Treaty and legal challenges and implications thereto; and
- iv. expose the students to the EAC organs, such as the East African Court of Justice, and their jurisprudence arising thereof in relation to national jurisdictions.

4. Duration of the Programme

The Taught LLM in Regional Integration and East African Community Law is an 18-month evening programme combining coursework and dissertation. The coursework part of the programme should ordinarily be completed within a period of two semesters. The dissertation component is undertaken hand in hand with other courses in the programme, especially starting from the second semester in order to ensure that students graduate within 18 months of enrolment.

5. List of Courses

Core Courses

| Course Code | Course Title | Credits |
|--------------------|----------------------------|----------------|
| LW 631 | Regional Integration Law | 15 |
| LW 683 | East African Community Law | 15 |
| LW 684 | Immigration Law | 15 |
| LW 687 | Labour Migration Law | 15 |
| LW 616 | Graduate Research Seminar | 15 |
| LW 699 | Dissertation | 60 |

Elective Courses (minimum of 3 courses)

| Course Code | Course Title | Credits |
|--------------------|--|----------------|
| LW 649 | Refugee Law | 15 |
| LW 691 | Procedure and Practice before International Public Judicial Bodies | 15 |
| LW 628 | International Human Rights Law | 15 |
| LW 685 | Citizenship Law | 15 |
| LW 600 series | Course(s) from other LLM programmes subject to approval by respective programme coordinators | 15 |

6. Assessment

Each course in the LLM in Regional Integration and East African Community Law programme shall be assessed through coursework (Continuous Assessment) and final University Examinations (UE). The coursework will be assessed on the basis of seminar presentations and individual assignment (take-home assignment). The coursework shall carry 40% while the UE will carry a total of 60% marks. The coursework component will consist of individual assignment weighing 20% marks and a tutorial seminar weighing 20%. In lieu of a tutorial seminar, students may do a test for duration of 1 hour which will weigh 20 marks.

TAUGHT LLM IN OIL AND GAS LAW

1. Structure of the Programme

The programme is structured around a total of eight (8) taught courses. These include five (5) core courses and three (3) electives, plus a Graduate Essay. Students will be required to complete 180 credits. Of these 180 credits, 75 credits will be for core courses, 45 credits for elective courses and the remaining 60 credits for a Graduate Essay.

2. Entry Requirements

The admission process will follow the guidelines provided by the Tanzania Commission for Universities (TCU) and in accordance with the University of Dar es Salaam regulations regarding postgraduate studies. For admission into the LLM in Oil and Gas Law, an applicant must possess an honours degree of the University of Dar es Salaam or an equivalent from another university recognized by TCU, with a GPA of 2.7.

A candidate with a pass degree may also be considered for admission if his/her undergraduate GPA is at least 2.5 and he/she has satisfied the University of Dar es Salaam School of Law with the academic potential through subsequent work or research experience and/or additional training.

3. Objectives of the Programme

(a) General Objective

The main objective of this programme is to enable students gain advanced and specialist education in selected areas of Oil and Gas Law which provide a basis from which to undertake academic research and effectively work in the corporate and public sectors.

(b) Specific Objectives

The specific objectives of the LLM in Oil and Gas Law are to:

- i. enhance knowledge of the current legal rules and issues in the exploitation of Oil and Gas sectors globally and Tanzania in particular;
- ii. enhance understanding of legal issues and institutional framework for the governance of Oil and Gas sectors;
- iii. generate an understanding of the legal environment, both regulatory and contractual in the Oil and Gas Sectors;
- iv. equip students with advanced knowledge and skills on the complex issues surrounding contracting, taxation and energy security;
- v. create an insight on the key issues in negotiating Oil and Gas investment agreements;

- vi. analyse the challenges and lessons learnt from the existing Oil and Gas Agreements in Tanzania and the future prospects; and
- vii. introduce new dimensions of the international and national legal issues affecting the operation of Oil and Gas investment agreements.

4. Duration of the Programme

The Taught LLM in Oil and Gas Law is an 18-month evening programme, combining coursework and a Graduate Essay. The coursework part of the programme should ordinarily be completed within a period of two semesters. The Graduate Essay component is undertaken hand in hand with other courses in the programme especially starting from the second semester in order to ensure that students graduate within 18 months of enrolment.

5. List of Courses

Core Courses

| Course Code | Course Title | Credits |
|-------------|---------------------------------------|---------|
| LO 600 | State Control of Hydrocarbons | 15 |
| LO 601 | Energy Law | 15 |
| LO 602 | Contracting in Oil and Gas Operations | 15 |
| LW 674 | International Commercial Arbitration | 15 |
| LW 616 | Graduate Research Seminar | 15 |
| LW 699 | Graduate Essay | 60 |

Elective Courses (minimum of 3 courses)

| Course Code | Course Title | Credits |
|-------------|---|---------|
| LW 615 | Competition Law | 15 |
| LO 603 | Oil and Gas Taxation | 15 |
| LO 604 | Good Governance in Oil and Minerals | 15 |
| LO 605 | Corporate Environmental Liability | 15 |
| LO 606 | Principles of Environmental Regulations | 15 |

6. Assessment

Each course in the LLM in Oil and Gas Law programme shall be assessed through coursework (Continuous Assessment) and University Examinations (UE). The coursework will be assessed on the basis of seminar presentations and individual assignment (take-home assignment). The coursework shall carry 40% while the UE will carry a total of 60% marks. The coursework component will consist of individual assignment weighing 20% marks and a tutorial seminar weighing 20%. In lieu of a tutorial seminar, students may do a test for duration of 1 hour which will weigh 20 marks.

OTHER MASTER PROGRAMMES (NON-LLM)

MASTER OF ARTS IN REVENUE LAW AND ADMINISTRATION (MA RLA)

1. Programme Structure

Uniquely interdisciplinary, the course aims at creating a cadre of leaders equipped with refined, specialized professional knowledge that would enable them re-position their respective organizations to meet the demands of today's dynamic global economy.

2. Entry Requirements

To be considered for admission to this programme, a candidate must be a holder of the bachelor degree in Law, Accountancy, Finance, Economics or any other related field from the University of Dar es Salaam or an equivalent degree from another university accredited by the national accreditation authority, or has to satisfy the requirements for the award of such degree provided that the said bachelor degree shall be of GPA of 2.7 or above.

For an applicant with a pass degree may be considered for admission if he or she satisfies the University of Dar es Salaam School of Law that he or she has work experience of more than six months since graduation.

OR

For admission to the taught Master of Arts in Revenue Law and Administration, the applicant shall be a holder of a Bachelor degree or equivalent qualification in Taxation, Accounting, Economics, Law or any business related discipline, and he/she must be a holder of a Postgraduate Diploma in Taxation (PDGT) offered by the Institute of Tax Administration or equivalent qualification offered by any other accredited institution.

OR

A bachelor degree or equivalent qualification in Taxation, Accounting, Economics, Law or any business-related discipline without a postgraduate diploma in taxation (or equivalent qualification) may be admitted provided that he/she scored at least upper second class at undergraduate level.

3. Objectives of the Programme

a) General Objective

This being an interdisciplinary programme, it aims at training a cadre of high level human resources to acquire advanced knowledge in revenue law and administration and enable them to become leaders in various aspects of taxation or customs.

b) Specific Objectives

The specific objectives of the taught Master of Arts in Revenue Law and Administration are to:

- i. acquaint candidates with knowledge, skills, attitudes and capabilities on taxation or customs policies and practices, depending on one's specialisation;
- ii. enable candidates make substantive and more effective contribution to tax or customs administration;
- iii. enable candidates offer effective contribution in the process of tax or customs reforms and its processes;
- iv. enable candidates plan and implement more effective taxation or customs policies and strategies;
- v. enable candidates be problem solvers on taxation or customs related matters; and
- vi. enable candidates perform new tasks relating to taxation or customs in a globalised economy.

4. Duration and Programme Format

The Master of Arts in Revenue Law and Administration is the 18-month evening programme, combining coursework and a Graduate Essay. The programme is also structured to enable candidates to graduate with either the taxation major or customs major. A candidate will be required to complete 90 credits during the first semester and 90 credits during the second semester as shown in the table below.

5. List of Courses

Taxation

Core Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| LW 665 | Tax Policy and Theory | 15 |
| LW 668 | Laws on Tax Administration and Taxpayers Rights | 15 |
| LW 669 | International Taxation | 15 |
| MR 600 | Revenue Forecasting and Fiscal Analysis | 15 |
| LW 699 | Graduate Essay | 60 |

Customs

Core Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| LW 665 | Tax Policy and Theory | 15 |
| LW 667 | Taxes on International Trade | 15 |
| LW 668 | Laws on Tax Administration and Taxpayers Rights | 15 |
| MRA 601 | Customs Management: Theory and Practice | 15 |
| LW 699 | Graduate Essay | 60 |

Taxation

Elective Courses (minimum of 4 courses)

| Course Code | Course Title | Credits |
|--------------------|---|----------------|
| LW 666 | Income Tax | 15 |
| LW 667 | Taxes on International Trade | 15 |
| LW 669 | International Taxation | 15 |
| LW 686 | Indirect Taxes | 15 |
| LW 688 | Capital Gains and Taxes on Property | 15 |
| LW 689 | Tax Crimes: Investigations and Prosecutions | 15 |
| LW 692 | Local Government Taxation | 15 |
| MR 602 | Tax Compliance and Risk Management | 15 |
| LW 693 | Advanced Taxation | 15 |
| LR 601 | Research Methods | 15 |

Customs

Elective Courses (minimum of 4 courses)

| Course Code | Course Title | Credits |
|--------------------|---|----------------|
| LW 666 | Income Tax | 15 |
| LW 669 | International Taxation | 15 |
| LW 686 | Indirect Taxes | 15 |
| LW 688 | Capital Gains and Taxes on Property | 15 |
| LW 689 | Tax Crimes: Investigations and Prosecutions | 15 |
| LW 692 | Local Government Taxation | 15 |
| MR 602 | Tax Compliance and Risk Management | 15 |
| LW 693 | Advanced Taxation | 15 |
| LW 635 | Private International Trade and Finance Law | 15 |
| LR 601 | Research Methods | 15 |

6. Assessment

Save for the Graduate Essay, all the courses in the Master of Arts in Revenue Law and Administration shall be assessed through a combination of Continuous Assessment (coursework) and final University Examinations (UE). The coursework is set to have 40% and the UE carries 60%. The Graduate Essay shall be marked out of 100%. Each course will be examined separately and passed at the level of B grade, aggregated from the coursework and final course examinations.

MASTER OF MIGRATION AND REFUGEE LAW

1. Structure of the Programme

The programme is structured around a total of eight (8) taught courses. These include five (5) compulsory courses and three (3) electives, plus a Graduate Essay. Students will be required to complete 180 credits. Of these 180 credits, 75 credits will be for compulsory courses, 45 credits for elective courses and the remaining 60 credits for a Graduate Essay.

2. Entry Requirements

For admission to the Master in Migration and Refugee Law Programme, applicants must hold an honours degrees in Law, Law Enforcement or any related degree of the University of Dar es Salaam or an equivalent one from another university accredited by the national accreditation authority, with a GPA of 2.7 and above.

3. Objectives of the Programme

a) General Objective

The underlying overall objective of the programme is to provide an in-depth training and research platform to students on wide dimensions of migration and related subject with a view to producing highly skilled personnel to deal with the expanding issues of migration and refugee in East Africa, Africa and at global level. The focus is to develop regional (East Africa and Africa as a whole) tailor-made approach and delve into the best migration management approaches that can be used to achieve developmental goals while

considering the context and obtaining circumstances of Tanzania and its regional economic organisations as well as the African continent.

b) Specific Objectives

The specific objectives of the Master of Migration and Refugee Law are to:

- i. promote and develop migration management education in Tanzania and the East African sub-regional as a whole;
- ii. expose students to a comprehensive and detailed understanding of the legal norms and instruments applicable to all international migratory movements;
- iii. impart to practical skills students for day to day implementation and enforcement of migration related laws;
- iv. stimulate interest in research in matters of migration and refugee law as well as migration management in general;
- v. create a pool of specialists in the field of migration and refugee law to serve in governments, international and national organizations as well as academics in institutions of higher learning;
- vi. train future academics in the field of migration and refugee law; and
- vii. fulfil the UDSM vision of prioritizing postgraduate training and increasing enrolment of postgraduate students.

4. Duration of the Programme

The Taught Master of Migration and Refugee Law is the 18-month evening programme, combining coursework and a Graduate Essay. The coursework part of the programme should ordinarily be completed within a period of two semesters. The Graduate Essay component is undertaken hand in hand with other courses in the programme, especially starting from the second semester in order to ensure that students graduate within 18 months of enrolment.

5. List of Courses

Core Courses

| Course Code | Course Title | Units |
|--------------------|---------------------------|--------------|
| LW 684 | Immigration Law | 15 |
| LW 649 | Refugee Law | 15 |
| LW 687 | Labour Migration Law | 15 |
| LW 685 | Citizenship Law | 15 |
| LW 616 | Graduate Research Seminar | 15 |
| LW 699 | Graduate Essay | 60 |

Elective Courses (minimum of 3 courses)

| Course Code | Course Title | Units |
|--------------------|---|--------------|
| LW 683 | East African Community Law | 15 |
| LW 691 | Procedure and Practice in International Judicial Bodies | 15 |
| LW 658 | Criminal Procedure and the Protection of Individual Liberty | 15 |
| LW 631 | Regional Integration Law | 15 |
| LW 628 | International Human Rights Law | 15 |
| LW 633 | International Humanitarian Law | 15 |
| LW 600 series | Course(s) from other LLM programmes subject to approval by the respective course coordinators | 15 |

6. Assessment

The coursework shall carry 40% while the University Examinations will carry a total of 60% marks. The coursework component will consist of individual assignment weighing 20% marks, and a tutorial seminar weighing 20%. In lieu of a tutorial seminar, students may do a test for duration of 1 hour which will weigh 20 marks.

TAUGHT MASTER OF INTELLECTUAL PROPERTY (MIP)

1. Structure of the Programme

The programme is structured around a total of seven (7) taught courses. These include five (5) core courses and two (2) electives, plus a Graduate Essay. Students will be required to complete 180 credits. Of these 180 credits, 90 credits will be for compulsory courses, 30 credits for elective courses and the remaining 60 credits for a Graduate Essay.

2. Entry Requirements

The admission process will follow the guidelines provided by the Tanzania Commission for Universities (TCU) and in accordance with the University of Dar es Salaam regulations regarding postgraduate studies. The applicant should be a holder of any bachelor degree from any university accredited by the national accreditation authority, with at least the GPA of 2.7.

3. Objectives of the Programme

a) General Objective

The underlying overall objective of the programme is to provide an in-depth training and research platform to students on wide dimensions and interface of intellectual property policy and regulatory issues as they apply in a broad spectrum of society developmental issues. The focus is to develop regional (East Africa and Africa as a whole) tailor-made approach and delve into the best intellectual property rights approaches that can be used to achieve developmental goals while considering the context and obtaining circumstances of the region.

b) Specific Objectives

The specific objectives of the Master of Intellectual Property are to:

- i. equip students with substantive understanding and application of intellectual property rights at the local, regional and international levels;
- ii. enable students understand the protection mechanism and the various commercialization options of the IP assets available to creators and users of IP related assets;
- iii. impart negotiation skills in technological transfer and investment agreements, in particular on the role of intellectual property rights in such deals;
- iv. prepare the generation that will take the lead in participation and formulation of the appropriate policy and laws on intellectual property that reflect the context and level of development of a particular country;
- v. empower students with knowledge and skills in critical analysis of international, regional and national intellectual property rights policies and trade regulations;
- vi. provide education and training in intellectual property rights;
- vii. provide service to the profession and society by interpreting intellectual property rights system so as to assist policymakers and regulators in formulating informed policies, regulations, and decisions;
- viii. provide students with comprehensive knowledge in intellectual property rights that will allow them to be successful in their chosen careers;
- ix. conduct basic and applied research that provides fundamental knowledge about intellectual property rights; and
- x. enrich graduates with adequate knowledge and skills to enable them to assist inventors of new products and processes as well as creators of artistic works to protect their invention and harness value from their creative works.

4. Duration of the Programme

The Taught Master of Intellectual Property is the 18-month evening programme, combining coursework and a Graduate Essay. The coursework part of the programme should ordinarily be completed within a period of two semesters. The Graduate Essay component is undertaken hand in hand with other courses in the programme, especially starting from the second semester in order to ensure that students graduate within 18 months of enrolment.

5. List of Courses

Core Courses

| Course Code | Course Title | Credits |
|-------------|--|---------|
| LW 600 | General Issues of IP System | 30 |
| LW 601 | Patents, Industrial Designs and Innovation | 15 |
| LW 697 | Intellectual Property Policy Making | 15 |
| LW 698 | Intellectual Property and Development | 15 |
| LW 616 | Graduate Research Seminar | 15 |
| LW 699 | Graduate Essay | 60 |

Elective Courses (minimum of 2 courses)

| Course Code | Course Title | Credits |
|-------------|---|---------|
| LW 602 | Trade and Service Marks | 15 |
| LW 603 | Copyright and Neighboring Rights | 15 |
| LW 660 | Law on Biotechnology and Plant Breeders Rights | 15 |
| LW 661 | Intellectual Property and Genetic Resources, Protection of Traditional Knowledge and Folklore | 15 |
| LW 662 | Intellectual Property for SMEs and Large Enterprises | 15 |
| LW 663 | International Intellectual Property Rights System | 15 |
| LW 664 | Intellectual Property Strategy | 15 |
| LW 635 | Private International Trade and Finance Law | 15 |
| LW 683 | East African Community Law | 15 |

6. Assessment

Each course in the MIP programme shall be assessed through coursework (Continuous Assessment) and final University Examinations (UE) as per the attendant/existing examination regulations of the University of Dar es Salaam. The coursework will be assessed on the basis of seminar presentations and individual assignment (take-home assignment). The coursework shall carry 40% while the UE will carry a total of 60% marks. The coursework component will consist of individual assignment weighing 20% marks and a tutorial seminar weighing 20%. In lieu of a tutorial seminar, students may do a test for duration of 1 hour which will weigh 20 marks. The pass mark for all the courses under the MIP program shall be 'B' (50% of the total marks).

DEGREE OF DOCTOR OF PHILOSOPHY

1. Eligibility for Admission

The following shall be eligible for registration for the Doctor of Philosophy programme.

- i. A holder of the Master of Laws degree of this University.
- ii. A holder of an LLB first class degree of this University who has initially registered for the Master of Laws and applied for permission to transfer his registration to the PhD degree. If the application is approved by the Board of Postgraduate Studies, his/her registration for PhD shall be retroactive.
- iii. A holder of an LLM or equivalent Master degree from another University accredited by the national accreditation authority.

2. Duration of the Programme

No candidate may be permitted to submit a thesis for the Doctor of Philosophy degree in less than two academic years from the date of registration, with the special permission of the Senate. The thesis must be submitted within six years from the date of registration for the degree though Senate may, on the recommendation of the School Board, extend this time.

3. Course Programme

A prospective candidate for the PhD degree is required to submit a research proposal he/she proposes to pursue; on approval by the School Postgraduate Studies Committee, the candidate shall proceed with the research. A supervisor will be appointed by the School to advise the candidate in his/her field of study or research. Where required, a candidate may choose any subject from those offered at Master of Laws level. A candidate shall be required to submit a thesis embodying results of his/her study at the end of the

programme. The PhD by thesis shall be marked on Pass or Fail basis. The general University rules and regulations relating to submission of thesis shall apply to PhD candidates.

DOCTOR OF LAWS

LLD is retained as a higher doctorate to be awarded in accordance with rules and regulations relating to higher doctorates at the University of Dar es Salaam.

UDSoL STAFF LIST

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D. A. M. Shayo LLB, LLM (Dar), LLM, Dr. jur. (Konstanz)

Lecturers

R. A. Mwaipopo, LLB (Dar), Dip. (Manchester), LLM (Manchester), PhD (Dar)
E. Nyika, LLB, LLM (Dar), PhD (Aberdeen)
P. Melkiori, LLB, LLM, PhD (Dar)
H. I. Abdulrahman, LLB, LLM, PhD (Dar)

Assistant Lecturers

D. Daniel, LLB, LLM (Dar)
E. Mshana, LLB, LLM (Dar)
M. Tairo, LLB., LLM (Dar)
T. Semu, LLB, LLM (Dar)
N. S. Sehewa, LLB, LLM. (Dar)
*E. Mlingwa, LLB (Dar), LLM. (UWC & Humboldt)
*F. Kimario, LL.B, LLM (Dar)
*H. Tumaini, LLB (Dar), LLM (Aberdeen)
L.Masalu, LLB, LLM (Dar)
D. Omoso, LLB, LLM (Dar)

Department of Private Law

Lecturer and Head of Department

C. K. K. Morris, LLB, LLM, PhD (Dar)

Secretary II and Secretary to the Head

L. Rushomesa, Cert, Office Management Course (TPSC)

Professor Emeritus

C. M. Peter, LLB, LLM (Dar), Dr. jur. (Konstanz)

Associate Professors

B. S. Rutinwa, LLB (Dar), LLM (Queen's), BCL, PhD (Oxford)
H. I. Majamba, LLB (Dar), LLM (Queen's), PhD (Northeastern)

Senior Lecturers

L. Mussa, LLB, LLM, PhD (Dar)
R. W. Tenga, LLB, LLM (Dar), LLM (J. S. D. Cornell), PhD (Ghent)
B. T. Mapunda, LLB, LLM (Dar), PhD (Ghent)

Lecturers

V. Mhina, LLB, LLM, PhD (Dar)
B. Kanyabuhinya, LLB, (Dar), LLM (Franklin Pierce Law Centre), PhD (Dar)
T. Mwenegoha, LLB, LLM (Dar), PhD (Bond)
G. Kiwory, LLB, LLM (Dar), Dr. jur. (Bayreuth)
A. J. Mwiburi, LLB, LLM (Dar), Dr. jur. (Bayreuth)
F. Sabby, LLB, LLM, PhD (Dar)
C. K. K. Morris, LLB, LLM, PhD (Dar)
N. Filbert, LLB (Dar), LL.M. (UWC & Humboldt), PhD (Humboldt)
V. Buchumi, LLB, LLM (Dar), PhD (Bayreuth)
T. Romwarld, LLB, LLM (Dar), PhD (Aberdeen)

Assistant Lecturers

*I. Gonzi, LLB, LLM (Dar)
A. Omari, LLB, LLM (Dar)
*N. P. Amani, LLB, LLM (Dar)
*G. Temu, LLB, LLM (Dar)

G. Samwel, LLB, LLM (Dar)
A. Kaitu, LLB, LLM (Dar)
H. Tizeba, LLB (Dar), LLM (UWC & Humboldt)
*P. Petro, LLB, LLM (Dar)
*C.E. Ngaiza, LLB, LLM (Dar)
B. J. Mabula, LLB, LLM (Dar)
C. Mairo, LLB, LLM (Dar)
N. B. Komba, LLB, LLM (Dar)
J.C.Rwihura, LLB, LLM (Dar)

* On Study Leave

**On Sabbatical Leave

***On Leave of Absence/Secondment

SCHOOL OF EDUCATION (SoED)

TRODUCTION

The School of Education traces its beginning back to July 1964, when a Department of Education was established as one of the University's several teaching departments within the University's second faculty, the Faculty of Arts and Social Sciences. The Faculty of Arts and Social Sciences was established in 1964, following the very first faculty-the Faculty of Law-with which the then University College Dar es Salaam (UCD) began, in 1961, as the country's highest institution of learning and training. In the previous year, 1964, the University College Dar es Salaam had just become a constituent college of the University of East Africa, in a federal setup together with the other two university colleges at Makerere (in Uganda) and Nairobi (in Kenya).

The Faculty of Education was established in July 1989. Within the historical development of the University, this the faculty was the eighth to be created in the University, although, in fact it remains seventh after the University's fifth faculty (Agriculture) long matured and was hived off in 1984 to become a second public university in the country. In 2008, the University of Dar es Salaam decided to cluster existing academic units and establish new ones in order to improve operational efficiency and optimal utilization of resources. It is through that decision that what was originally the Faculty of Education was transformed to a School of Education. The School of Education was officially inaugurated on 15th May, 2009. The School of Education comprises the following departments: (i) Department of Educational Foundations, Management, and Lifelong Learning (EFMLL); (ii) Department of Educational Psychology and Curriculum Studies (EPCS); and (iii) Department of Physical Education Sport Sciences (PESS). The School of Education has a Centre for Educational Research and Professional Research (CERPD) that is responsible for coordinating research activities, publications, consultancy, staff-student seminars and professional development. The Special Education Needs Unit (SENU) serves students with special needs at the University of Dar es Salaam and is part of the family of the School of Education.

PROGRAMMES OFFERED BY THE SCHOOL OF EDUCATION

The School of Education offers the following postgraduate programmes:

| S/N | Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|-----|--|---------------------------------------|------------------|-----------|-----------------|------------------------|
| | | | | | Tanzanian (TZS) | Non - Tanzanians (USD) |
| 1. | Postgraduate Diploma in Education (PGDE) | Coursework and Project Paper | Online | 12 months | 2,000,000 | 3,075 |
| 2. | Postgraduate Diploma in Education (PGDE) | Coursework and Project Paper | Full-time | 12 months | 2,600,000 | 3,075 |
| 3. | Master of Arts in Education (MAED) | Coursework and Dissertation or Thesis | Full-time | 18 months | 3,900,000 | 4,615 |
| 4. | Master of Arts in Education (MAED) | Coursework and Dissertation | Evening | 24 months | 4,875,000 | 6,150 |
| 5. | Master of Arts in Education (MAED) | Thesis | Full-time | 24 months | 4,875,000 | 6,150 |
| 6. | Master of Education in Applied Social Psychology (MED ASP) | Coursework and Dissertation | Full-time | 24 months | 4,875,000 | 6,150 |
| | | Practicum | Full-time | 2 months | 3,000,000 | 1,500 |

| S/N | Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|-----|---|-----------------------------|------------------|-----------|----------------------|------------------------|
| | | | | | Tanzanian (TZS) | Non - Tanzanians (USD) |
| 7. | Master of Education in Science Education (MEd Science Education) | Coursework and Dissertation | Full-time | 18 months | 3,900,000 | 4,615 |
| 8. | Master of Educational Management and Administration (MEMA) | Coursework and Dissertation | Full-time | 18 months | 3,900,000 | 4,615 |
| 9. | Master of Educational Management and Administration (MEMA) | Coursework and Dissertation | Evening | 18 months | 3,900,000 | 4,615 |
| 10. | Master of Education in Language Education (MEDLED) | Coursework and Dissertation | Full-time | 18 months | 3,900,000 | 4,615 |
| 11. | Master of Education in Physical Education and Sport Sciences (MED PESS) | Coursework and Dissertation | Full-time | 18 months | 3,900,000 | 4,615 |
| 12. | Doctor of Philosophy (PhD) in Education | Thesis | Full-time | 36 Months | 3,250,000 (per year) | 3,075 (per year) |
| 13. | Doctor of Philosophy (PhD) in Education | Thesis | Part-time | 60 months | 3,250,000 (per year) | 3,075 (per year) |
| 14. | Doctor of Philosophy (PhD) in Education | Coursework and Dissertation | Full-time | 48 months | 3,250,000 (per year) | 3,075 (per year) |

POSTGRADUATE DIPLOMA IN EDUCATION (PGDE)

1. Introduction

SoED offers Postgraduate Diploma in Education (PGDE) programme through two modes. Regular/Conventional Mode where students are taught face-to-face, and online mode with a face-to-face mode at the middle of the semester or any time as SoED and Centre for Virtual Learning (CVL) may decide. The online programme is run jointly between SoED and CVL.

2. Objectives of the Programme

Postgraduate Diploma in Education programme aims at professionalising non-education graduates by training them to become professional teachers. At the end of the programme, the graduates should be able to:

- i. use pedagogical knowledge and skills, didactics and reflective practice in the teaching subject;
- ii. design and carry out an evaluation research particularly one involving improvement of teaching and learning;
- iii. identify the needs of different categories of learners and assist them to learn; and
- iv. possess the skills of effective communication and use of teaching and learning media for effective teaching and learning.

3. Entry Requirements

- i. The minimum qualification for admission into PGDE is a bachelor degree (non-education) with a GPA of 2.7 or above from UDSM or any other institution recognized by TCU.
- ii. A non-education (advanced) Diploma in Education offered by UDSM or any other institution recognized by TCU may also suffice for consideration for admission into PGDE.
- iii. SoED Board may also consider applicants with any other equivalent qualification not mentioned above, subject to the Senate approval.

4. Programme Structure

PGDE programme comprises coursework and Teaching Practice (TP). Full-time students shall complete their coursework within the first 2 semesters of enrolment. Within the third semester, the candidate must submit the independent study report.

| Semester | Activities |
|--------------|---|
| Semester I | Coursework |
| Semester II | Coursework |
| Semester III | Teaching practice and independent study report writing and submission |

- i. The credit system shall be used to gauge the workload involved in a programme.
- ii. One credit is equal to learning outcomes achievable in 10 notional hours of learning time determined on the basis of a learner with an average learning speed.
- iii. A minimum of 120 credits shall be completed to satisfy the coursework requirement before proceeding to teaching practicum.

5. List of Courses

| | |
|---|------------|
| Part I: 10 Core courses each 12 credits | 132 |
| Part II: at least two electives each 12 credits | 24 |
| Total Credits | 156 |

Table 1: Core Courses

| Course Code | Course Title | Credits |
|--------------|---|------------|
| CT 501 | Principles of Curriculum Development and Teaching | 12 |
| EP 500 | Introduction to Educational Psychology | 12 |
| EF 500 | Principles of Education | 12 |
| FE 502 | Research Methods and Data Analysis | 12 |
| CT 509 | Classroom Interaction and Research | 12 |
| CT 512 | Didactics | 12 |
| EP 503 | Assessment and Evaluation | 12 |
| EA 500 | Management of Education and School Administration | 12 |
| CT 513 | Practicum | 24 |
| FE 599 | Independent Study | 12 |
| Total | | 132 |

Elective Courses

Each candidate will be required to select at least two elective courses from the list indicated in Table 2.

Table 2: Electives Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| AE 501 | Human Rights Education | 12 |
| AE 500 | Adult Learning | 12 |
| CT 500 | Language Education | 12 |
| CT 508 | Library Education and Information Management. | 12 |
| CT 507 | Introduction to Entrepreneurial Education | 12 |

| | | |
|--------|--|----|
| EA 502 | Administrative & Organizational Behaviour. | 12 |
| EA 501 | Human Resources Development in Educational Organizations | 12 |
| EF 501 | Sociology of Education | 12 |
| EP 504 | Educational Guidance and Counseling | 12 |
| PE 501 | Theory and Practice of Fitness Promotion | 12 |

6. Programme Evaluation and Examinations

- i. Each course in PGDE programme shall be offered and assessed in the same semester and the grade is awarded.
- ii. The average grade for all postgraduate courses must be at least “B”.
- iii. A candidate whose GPA is below 2.7 shall be discontinued from the programme.
- iv. A candidate whose overall GPA is 2.7 or above shall be allowed to do supplementary examinations in the failed courses.
- v. The maximum grade that can be attained from supplementary examinations shall be “B”.
- vi. Candidates who fail in more than one supplementary examination shall be discontinued from the programme.
- vii. A candidate who fails in only one supplementary examination shall be allowed to repeat the failed course.
- viii. A candidate who repeats a course and fails in the first sitting examination shall not be allowed to do supplementary examinations, and shall be discontinued from the programme.
- ix. The final examination shall be held immediately upon completing a course. The weighting of this final examination in determining the grade for the course shall be: University Examination (50%) and Continuous Assessment (50%) except for a course on practicum. The form of assessment shall be specified by respective instructors at the beginning of the course.
- x. University guidelines on the preparation of dissertations shall apply.

MASTER PROGRAMMES OFFERED BY THE SCHOOL OF EDUCATION

MASTER OF ARTS IN EDUCATION (MA ED) (FULL-TIME)

SoED offers Master of Arts in Education (MA ED) degree programme by thesis as well as by coursework and dissertation.

1. Objectives of the Programme

MA Education programme aims to:

- i. raise the level of awareness on issues that face education including curriculum and quality teaching and learning, management and administration, social, comparative and philosophical issues;
- ii. develop skills of understanding educational research reports as well as reviewing and critiquing education writings and research reports; and
- iii. develop ability of designing, executing and writing educational research projects.

2. Entry Requirements

- i. The minimum qualification for admission into MAED is a bachelor degree in education with a GPA of 2.7 or above from the University of Dar es Salaam or any other institution recognized by TCU.
- ii. A Postgraduate Diploma in Education offered by the University of Dar es Salaam School of Education (SoED), or any other institution recognized by TCU may also suffice for consideration for admission into MAED.
- iii. SOED Board may also consider applicants with any other equivalent qualification not mentioned above, subject to the Senate approval.

3. Programme Structure

MAED programme is offered in two ways that is by thesis or by coursework and dissertation.

Structure of the Programme

| <i>Semester</i> | <i>Activities</i> | |
|-----------------|---|--|
| Semester I | Coursework | |
| Semester II | Coursework and approval of coursework results | |
| Semester III | Dissertation | |
| | <i>Period</i> | <i>Activities</i> |
| | August – September | Proposal development and approval |
| | October – November | Field Work |
| | December | Data Analysis |
| | January | First Draft |
| | February 15 th | Second Draft |
| | February 28 th / 29 th | Final Draft |
| | March 1 st | Submission |
| | March 07 th – 21 st | Presentation at departmental level |
| | March 21 st – 31 st | Assessment of the dissertations by IE and EE |
| | April 1 st – 15 th | Approval of dissertation results |
| | April 20 th | Production of final error free copy |
| | April 25 th | Final submission |
| | May/ December | Graduation |

- i. Full-time students shall complete their coursework within the first 2 semesters of enrolment. Within the third semester, the candidate must submit the spiral and loose bound dissertation ready for presentation at department level and for examination respectively.
- ii. Part-time candidates shall include those pursuing evening programmes to complete their coursework within the first 18 months of enrolment.
- iii. The minimum time for the dissertation phase shall be 6 months.
- iv. The credit system shall be used to gauge the workload involved in a programme.
- v. One credit is equal to learning outcomes achievable in 10 notional hours of learning time determined on the basis of a learner with an average learning speed.
- vi. A minimum of 120 credits shall be completed to satisfy the coursework requirement before proceeding to the dissertation phase, unless otherwise stated. A dissertation shall have 60 credits.
- vii. In addition, a candidate may be required to take certain undergraduate courses that are pre-requisites for some postgraduate courses. However, these will not be considered in the final degree evaluation.

4. List of Courses

| | |
|--|------------|
| Part I: 7 Core courses (each 12 credits) | 84 |
| Part II: 3 Electives (each 12 credits) | 36 |
| Part III: Dissertation | 60 |
| Total | 180 |

Table 1: Core Courses

| Course Code | Course Title | Credits |
|--------------|------------------------------------|------------|
| FE 600a | Research Methods in Education I | 12 |
| FE 600b | Research Methods in Education II | 12 |
| EA 621 | Policy Planning and Administration | 12 |
| CT 640 | Curriculum and Teaching | 12 |
| EF 621 | Comparative Education | 12 |
| AE 620 | Adult Learning | 12 |
| EP 624 | Theories of Teaching and Learning | 12 |
| FE 699 | Dissertation | 60 |
| Total | | 144 |

Each candidate will be required to select **three elective courses** from the list as indicated in Table 2.

Table 2: Elective Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| EA 622 | Management of Educational Institutions and Projects | 12 |
| EP 622 | Social Psychology | 12 |
| EP 623 | Psychology of Child Development | 12 |
| EA 623 | Educational Planning and Financing | 12 |
| CT 647 | Advanced Curriculum Development | 12 |
| PE 621 | Youth and Sports Development | 12 |
| CT 646 | Environmental Education | 12 |
| AE 621 | Open and Distance Learning | 12 |
| PE 622 | Sports Economics and Marketing | 12 |
| EP 624 | Theories of Teaching and Learning | 12 |
| AE 622 | Management and Financing Adult Education | 12 |

5. Programme Evaluation and Examinations

- i. Each course shall be offered and assessed in the same semester and the grade is awarded.
- ii. With an approval of the respective SOED Board, the coursework completed in postgraduate studies at other universities may contribute to the coursework requirements for the MAED degree. The equivalent weighting of this coursework will be determined by the SOED Board in accordance with the University Qualification Framework set by the Tanzania Commission for Universities (TCU).
- iii. The average grade for all postgraduate courses must be at least “B”.
- iv. A candidate whose GPA is below 2.7 shall be discontinued from the programme.
- v. A candidate whose overall GPA is 2.7 or above, shall be allowed to do supplementary examinations in the failed courses.
- vi. The maximum grade that can be attained from a supplementary examination shall be “B”.
- vii. Candidates who fail in more than one supplementary examination shall be discontinued from the programme.
- viii. A candidate who fails in only one supplementary examination shall be allowed to repeat the failed course.
- ix. A candidate who repeats a course and fails in the first sitting examination shall not be allowed to do supplementary examinations, and shall be discontinued from the programme.
- x. The final examination shall be held immediately upon completing a course. The weighting of this final examination in determining the grade for the course shall be University Examination (50%) and Continuous Assessment (50%). The form of assessment shall be specified by respective instructors at the beginning of the course.
- xi. For the dissertation phase, the candidate in consultation with the supervisor shall formulate a research proposal.
- xii. University guidelines on the preparation of dissertations shall apply.

MASTER OF ARTS IN EDUCATION (MA EDUCATION) (EVENING)

The School of Education offers MAED programme by coursework and dissertation in the evening. The aim of the programme is to widen access to residence, Dar es Salaam and neighbouring regions to have a place of study after working hours. Entry requirements, courses, structure, assessment and evaluation, rules and regulations are the same as MAED programme except that the programme is offered in the evening.

MASTER OF EDUCATIONAL MANAGEMENT AND ADMINISTRATION (MEMA)

1. Introduction

SoED offers a Master of Educational Management and Administration (MEMA) programme by thesis or by coursework and dissertation. The MEMA programme aims at training and developing high quality educational managers and administrators that are critically needed to strengthen the ability of the ministry responsible for education, regional/local authorities, higher education institutions and schools to provide the highest quality of education in Tanzania.

2. Objectives of the Programme

MEMA program aims to train and develop high quality educational managers and administrators that are critically needed to strengthen the ability of national and local educational authorities and schools to provide high quality education in Tanzania.

3. Entry Requirements

- i. The minimum qualification for admission into MEMA is a bachelor degree in education with a GPA of 2.7 or above from the University of Dar es Salaam or any other institution recognized by TCU.
- ii. A Postgraduate Diploma in Education offered by SOED, or any other institution recognized by TCU may also suffice for consideration for admission into MEMA.
- iii. SOED Board may also consider applicants with any other equivalent qualification not mentioned above, subject to the Senate approval.

4. Programme Structure

MEMA programme is delivered by thesis and/or by coursework and dissertation.

| <i>Semester</i> | <i>Activities</i> | |
|-----------------|--|--|
| Semester I | Coursework | |
| Semester II | Coursework | |
| Semester III | Dissertation | |
| | <i>Period</i> | <i>Activities</i> |
| | August – September | Proposal development and approval |
| | October – November | Field Work |
| | December | Data Analysis |
| | January | First Draft |
| | February 15 th | Second Draft |
| | February 28 th / 29 th | Final Draft |
| | March 1 st | Submission |
| | March 07 th – 21 st | Presentation at departmental level |
| | March 21 st – 31 st | Assessment of the dissertations by IE and EE |
| | April 1 st – 15 th | Approval of dissertation results |
| | April 20 th | Production of final error free copy |
| | April 25 th | Final Submission |
| | May/ December | Graduation |

- i. Full-time students shall complete their coursework within the first 2 semesters of enrolment. Within the third semester, the candidate must submit the spiral and loose bound dissertation ready for presentation at department level and for examination respectively.
- ii. Part-time candidates shall include those following evening programmes to complete their coursework within the first 18 months of enrolment.
- iii. The minimum time for the dissertation phase shall be 6 months.
- iv. The credit system shall be used to gauge the workload involved in a programme.
- v. One credit is equal to learning outcomes achievable in 10 notional hours of learning time determined on the basis of a learner with an average learning speed.
- vi. A minimum of 120 credits shall be completed to satisfy the coursework requirement before proceeding to the dissertation phase unless otherwise stated. A dissertation shall have 60 credits.
- vii. In addition, a candidate may be required to take certain undergraduate courses that are pre-requisites for some postgraduate courses. However, one will not be considered in the final degree evaluation.

5. List of Courses

| | |
|---|------------|
| Part I: 7 Core courses (each 12 credits) | 84 |
| Part II: 3 Electives (each 12 credits) | 36 |
| Part III: Dissertation | 60 |
| Total | 180 |

Table 1: Core Courses

| Course Code | Course Title | Credits |
|--------------|---|------------|
| FE 600a | Research Methods in Education I | 12 |
| FE 600b | Research Methods in Education II | 12 |
| EA 624 | Educational Policy Making and Policy Analysis | 12 |
| EA 625 | Educational Planning, programme/Project design and Evaluation | 12 |
| EA 626 | Economics of Education and Financing | 12 |
| EA 627 | Management of Education Systems and Institutions | 12 |
| EA 628 | Quality Assurance and Control in Education | 12 |
| FE 699 | Dissertation | 60 |
| Total | | 144 |

Elective Courses

Each candidate will be required to select **three courses** from the list indicated in Table 2.

Table 2: List of Elective Courses

| Course Code | Course Title | Credits |
|-------------|--|---------|
| EA 629 | The Politics of Education | 12 |
| EA 630 | Education Management Information System (EMIS) | 12 |
| EA 631 | Organizational Behaviour in Education | 12 |
| EA 632 | Legal and Ethical Aspects of Education | 12 |
| EA 633 | Human Resource Management | 12 |
| FE 620 | Business and Entrepreneurial Education | 12 |

6. Programme Evaluation and Examinations

- i. Each course in MEMA shall be offered and assessed in the same semester and the grade awarded.
- ii. With an approval of the respective SOED Board, the coursework completed in postgraduate studies at other universities may contribute to the coursework requirements for MEMA degree programme. The equivalent weighting of this coursework will be determined by SoED Board in accordance with the University Qualification Framework set by the Tanzania Commission for Universities (TCU).
- iii. The average grade for all postgraduate courses must be at least "B".
- iv. A candidate whose GPA is below 2.7 shall be discontinued from the programme.
- v. A candidate whose overall GPA is 2.7 or above shall be allowed to do supplementary examinations in the failed courses.
- vi. The maximum grade that can be attained from a supplementary examination shall be "B".
- vii. Candidates who fail in more than one supplementary examination shall be discontinued from the programme.
- viii. A candidate who fails in only one supplementary examination shall be allowed to repeat the failed course.
- ix. A candidate who repeats a course and fails in the first sitting examination shall not be allowed to do supplementary examinations, and shall be discontinued from the programme.
 - a) The final examination shall be held immediately upon completing a course. The weighting of this final examination in determining the grade for the course shall be University Examination

(50%) and Continuous Assessment (50%). The form of assessment shall be specified by respective instructors at the beginning of the course.

- b) For the dissertation phase, the candidate in consultation with the supervisor shall formulate a research proposal.
- c) University guidelines on the preparation of dissertations shall apply.

MASTER OF EDUCATIONAL MANAGEMENT AND ADMINISTRATION (MEMA) EVENING

SoED offers MEMA programme by coursework and dissertation in the evening. The aim of the programme is to widen access to residence Dar es Salaam and neighbouring regions to have a place of study after working hours. Entry requirements, courses, structure, assessment and evaluation, rules and regulations are the same as MEMA programme except that the programme is offered in the evening.

MASTER OF EDUCATION IN APPLIED SOCIAL PSYCHOLOGY (MED ASP)

1. Introduction

SoED offers Master of Education in Applied Social Psychology (MED ASP) degree programme by coursework and dissertation. The programme aims at: training and developing high quality social psychologists that are critically needed to strengthen the psychological wellbeing of children, adolescents/youth, adults, students, teachers and the Tanzanian population at large; providing critical analysis of health behaviours and life styles with the view of improving quality of life; strengthening the link between University of Dar es Salaam and the Tanzanian community; and advancing teaching and quality of research in the socio cultural behavioural fields.

2. Objectives of the programme

MED (ASP) programme provides training within the context of the scientist-practitioner model to equip professional counsellors and psychotherapists who will be well grounded in psychological principles in an African perspective. The programme prepares students for the counselling profession as well as other psychological interventions, which involves application of developmental and social sciences in assisting clients of all ages and the community at large to attain psychological growth and rid themselves of social adjustment problems. The programme objectives are to:

- i. Develop learners' competence in educational and applied social psychology;
- ii. Develop learners' research skills for knowledge creation and dissemination in educational and applied social psychology;
- iii. Produce trained personnel in educational and applied social psychology; and
- iv. Prepare learners for further education in educational and applied social psychology.

3. Entry Requirements

- i. The minimum qualification for admission into MED ASP is a bachelor degree in education or related fields with a GPA OF 2.7 or above from University of Dar es Salaam or any other institution recognized by TCU.
- ii. A Postgraduate Diploma in Education offered by SoED, or any other institution recognized by TCU may also suffice for consideration for admission into MAASP.
- iii. SoED Board may also consider applicants with any other equivalent qualification not mentioned above, subject to the Senate approval.

4. Programme Structure

MAASP programme comprises thesis or coursework and dissertation.

| <i>Semester</i> | <i>Activities</i> | |
|------------------------|--------------------------|-----------------------------------|
| Semester I | Coursework | |
| Semester II | Coursework | |
| Semester III | Practicum to Counseling | |
| Semester IV | Dissertation | |
| | <i>Period</i> | <i>Activities</i> |
| | August – October | Practicum to Counseling |
| | November | Proposal development and approval |

| | | |
|--|--|--|
| | December - February | Field Work |
| | March | Data Analysis |
| | April | First Draft |
| | May | Second Draft |
| | June 1 st | Final Draft |
| | June 07 th – 21 st | Submission |
| | June 21 st – 31 st | Presentation at departmental level |
| | July 1 st – 15 th | Assessment of the dissertations by IE and EE |
| | July 20 th | Approval of dissertation results |
| | July 25 th | Production of final error free copy |
| | July 31 st | Final submission |
| | December | Graduation |

- i. Full-time students shall complete their coursework within the first 2 semesters of enrolment. Within the third semester, the candidates must conduct practicum to counseling and submit a report. In the fourth semester the candidate must submit the spiral and loose bound dissertation ready for presentation at department level and for examination respectively.
- ii. Part-time candidates shall include those following evening programmes to complete their coursework within the first 18 months of enrolment.
- iii. The minimum time for the dissertation phase shall be 6 months.
- iv. The credit system shall be used to gauge the workload involved in a programme.
- v. One credit is equal to learning outcomes achievable in 10 notional hours of learning time determined on the basis of a learner with an average learning speed.
- vi. A minimum of 120 credits shall be completed to satisfy the coursework requirement before proceeding to practicum and to the dissertation phase, unless otherwise stated. A dissertation shall have 60 credits.
- vii. In addition, a candidate may be required to take certain undergraduate courses that are pre-requisites for some postgraduate courses. However, the candidate will not be considered in the final degree evaluation.

5. List of Courses

| | |
|--|-----------|
| Part I: 7 Core courses each 12 credits | 84 |
| Part II 3 Electives each 12 credits | 36 |
| Part III Dissertation | 60 |
| Total | 80 |

Table 1: Core Courses

| Course Code | Course Title | Credits |
|--------------|--|---------|
| FE 600a | Research Methods in Education I | 12 |
| FE 600b | Research Methods in Education II | 12 |
| EP 622 | Social and Personality Psychology | 12 |
| EP 625 | General Psychology | 12 |
| EP 624 | Theories of Teaching and Learning | 12 |
| EP 626 | Community Guidance and Counseling | 12 |
| EP 628 | Community Psychology and Mental Health | 12 |
| EP 627 | Practicum to Counseling | 12 |
| FE 699 | Dissertation | 60 |
| Total | 144 | |

Each candidate will be required to select **three elective courses** from the list indicated in the table 2.

Table 2: Elective Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| EP 623 | Psychology of Child Development | 12 |
| EP 629 | Career and Occupational Psychology | 12 |
| EP 630 | Introduction to Methods of Studying Human Behaviour | 12 |
| EP 631 | Health Behaviours in Young People | 12 |
| EP 612 | Psychology of Ageing and Quality of Life | 12 |
| EP 613 | Gender Psychology | 12 |
| PE 622 | Sports Economics and Marketing | 12 |

6. Programme Evaluation and Examinations

- i. Each course in MED ASP shall be offered and assessed in the same semester and the grade awarded.
- ii. With an approval of the respective SoED Board, the coursework completed in postgraduate studies in other universities may contribute to the coursework requirements for the MAASP degree. The equivalent weighting of this coursework will be determined by SoED Board in accordance with the University Qualification Framework set by the Tanzania Commission for Universities (TCU).
- iii. The average grade for all postgraduate courses must be at least “B”.
- iv. A candidate whose GPA is below 2.7 shall be discontinued from the programme.
- v. A candidate whose overall GPA is 2.7 or above shall be allowed to do supplementary examinations in the failed courses.
- vi. The maximum grade that can be attained from a supplementary examination shall be “B”.
- vii. Candidates who fail in more than one supplementary examination shall be discontinued from the programme.
- viii. A Candidate who fails in only one supplementary examination shall be allowed to repeat the failed course.
- ix. A candidate who repeats a course and fails in the first sitting examination shall not be allowed to do supplementary examinations, and shall be discontinued from the programme.
- x. The final examination shall be held immediately upon completing a course. The weighting of this final examination in determining the grade for the course shall be University Examination (50%) and Continuous Assessment (50%) except for a course on practicum. The form of assessment shall be specified by respective instructors at the beginning of the course.
- xi. For the dissertation phase, the candidate in consultation with the supervisor shall formulate a research proposal.
- xii. University guidelines on the preparation of dissertations shall apply.

MASTER OF EDUCATION IN SCIENCE EDUCATION (MEd SCIENCE EDUCATION)

1. Introduction

SoED offers a Master of Science in Science Education (MEd Sc. Education) by coursework and dissertation. The MEd Sc. Education programme aims at training and developing high quality science teachers and administrators that are critically needed to strengthen the scientific thinking and behavior among children, adolescents/youth, adults, students, teachers and the Tanzanian population at large.

2. Objectives of the Programme

MEd Science Education programme is designed for experienced graduate teachers of Science, Mathematics, and Technology to upgrade their pedagogical, didactical, research and leadership skills through specialized training. At the end of the programme, MEd Sc. Education student should be able to:

- i. develop awareness of current issues and problems in science, mathematics, and technology (SMT) education and find ways of addressing them in the African and Tanzanian context;
- ii. develop competence in designing, managing, organizing, and running professional development programmes for Science, Mathematics and Technology teachers;
- iii. develop leadership skills in managing science departments, organizing science fairs, camps and practical work in schools;
- iv. develop competence in integrating ICT in the teaching and learning of Science, Mathematics and Technology; and

- v. improve professional capabilities in curriculum design, development, research, assessment, and professional development.

3. Entry Requirements

- i. The minimum qualification for admission into MEd Sc. Education is a bachelor degree in education with science subjects with a GPA OF 2.7 or above from UDSM or any other institution recognized by TCU.
- ii. A Postgraduate Diploma in Education offered by SoED, or any other institution recognized by TCU may also suffice for consideration for admission into MED Sc. Education.
- iii. The SoED Board may also consider applicants with any other equivalent qualification not mentioned above, subject to the Senate approval.

4. Programme Structure

MED Sc. Education programme is offered by coursework and dissertation.

| <i>Semester</i> | <i>Activities</i> | |
|-----------------|--|--|
| Semester I | Coursework | |
| Semester II | Coursework | |
| Semester III | Dissertation | |
| | <i>Period</i> | <i>Activities</i> |
| | August – September | Proposal development and approval |
| | October – November | Field Work |
| | December | Data Analysis |
| | January | First Draft |
| | February 15 th | Second Draft |
| | February 28 th / 29 th | Final Draft |
| | March 1 st | Submission |
| | March 07 th – 21 st | Presentation at departmental level |
| | March 21 st – 31 st | Assessment of the dissertations by IE and EE |
| | April 1 st – 15 th | Approval of dissertation results |
| | April 20 th | Production of final error free copy |
| | April 25 th | Final submission |
| | May/ December | Graduation |

- i. Full-time students shall complete their coursework within the first 2 semesters of enrolment. Within the third semester the candidate must submit the spiral and loose bound dissertation ready for presentation at department level and for examination respectively.
- ii. Part-time candidates shall include those following evening programmes to complete their coursework within the first 18 months of enrolment.
- iii. The minimum time for the dissertation phase shall be 6 months.
- iv. The credit system shall be used to gauge the workload involved in a programme.
- v. One credit is equal to learning outcomes achievable in 10 notional hours of learning time determined on the basis of a learner with an average learning speed.
- vi. A minimum of 120 credits shall be completed to satisfy the coursework requirement before proceeding to practicum and to the dissertation phase, unless otherwise stated. A dissertation shall have 60 credits.
- vii. In addition, a candidate may be required to take certain undergraduate courses that are pre-requisites for some postgraduate courses. However, will not be considered in the final degree evaluation.

5. List of Courses

| | |
|--|------------|
| Part I: 7 Core courses each 12 credits | 84 |
| Part II: 3 Electives each 12 credits | 36 |
| Part III: Dissertation | 60 |
| Total | 180 |

Table 1: Core Courses

| Course Code | Course Title | Credits |
|--------------|----------------------------------|------------|
| FE 600a | Research Methods in Education I | 12 |
| FE 600b | Research Methods in Education II | 12 |
| CT 640 | Curriculum and Teaching | 12 |
| CT 641 | Curriculum Development in SMT | 12 |
| CT 643 | Professional Development in SMT | 12 |
| CT 644 | Assessment of Performance in SMT | 12 |
| CT 645 | Computer Assisted Learning | 12 |
| FE 699 | Dissertation | 60 |
| Total | | 144 |

Each candidate will be required to select **three elective courses** from the list indicated in the table 2.

Table 2: Elective Courses

| Course Code | Course Title | Credits |
|-------------|---------------------------------|---------|
| CT 602 | Social Context in SMT | 12 |
| CT 646 | Environmental education | 12 |
| EP 624 | Theories of Teaching & Learning | 12 |
| CT 647 | Advanced Curriculum Development | 12 |
| AE 621 | Open and distance learning | 12 |
| AE 620 | Adult learning | 12 |

6. Programme Evaluation and Examinations

- i. Each course in MED ASP shall be offered and assessed in the same semester and the grade awarded.
- ii. With an approval of the respective SoED Board, the coursework completed in postgraduate studies at other universities may contribute to the coursework requirements for the MED ASP degree. The equivalent weighting of this coursework will be determined by SoED Board in accordance to the University Qualification Framework set by the Tanzania Commission for Universities (TCU).
- iii. The average grade for all postgraduate courses must be at least "B".
- iv. A candidate whose GPA is below 2.7 shall be discontinued from the programme.
- v. A candidate whose overall GPA is 2.7 or above shall be allowed to do supplementary examinations in the failed courses.
- vi. The maximum grade that can be attained from a supplementary examination shall be "B".
- vii. Candidates who fail in more than one supplementary examination shall be discontinued from the programme.
- viii. A candidate who fails in only one supplementary examination shall be allowed to repeat the failed course.
- ix. A candidate who repeats a course and fails in the first sitting examination shall not be allowed to do supplementary examinations and shall be discontinued from the programme.
- x. The final examination shall be held immediately upon completing a course. The weighting of this final examination in determining the grade for the course shall be University Examination (50%) and Continuous Assessment (50%) except for a course on practicum. The form of assessment shall be specified by respective instructors at the beginning of the course.
- xi. For the dissertation phase, the candidate in consultation with the supervisor shall formulate a research proposal.
- xii. University guidelines on the preparation of dissertations shall apply.

MASTER OF EDUCATION IN LANGUAGE EDUCATION (MED LED)

1. Introduction

SoED also offers Master of Education in Language Education (MED LED) degree programme by coursework and dissertation. MED LED programme aims at training and developing high quality language teachers.

2. Objectives of the Programme

The main objective of MEDLED programme is to prepare specialists in language education who will demonstrate knowledge, skills, values and abilities in preparing language teacher trainers and conduct research projects that address problems associated with language in education in Africa, and Tanzania in particular. The programme intends to benefit education stakeholders dealing with language of instruction, language teaching and learning.

3. Entry Requirements

- i. The minimum qualification for admission into MED LED is a bachelor degree in education with a background in language subjects with a GPA OF 2.7 or above from UDSM or any other institution recognized by TCU.
- ii. A Postgraduate Diploma in Education offered by SoED, or any other institution recognized by TCU may also suffice for consideration for admission into MED LED.
- iii. SoED Board may also consider applicants with any other equivalent qualification not mentioned above, subject to the Senate approval.

4. Programme Structure

MED LED programme is delivered by thesis and/or coursework and dissertation.

| <i>Semester</i> | <i>Activities</i> | |
|-----------------|--|--|
| Semester I | Coursework | |
| Semester II | Coursework | |
| Semester III | Dissertation | |
| | <i>Period</i> | <i>Activities</i> |
| | August – September | Proposal development and approval |
| | October – November | Field Work |
| | December | Data Analysis |
| | January | First Draft |
| | February 15 th | Second Draft |
| | February 28 th / 29 th | Final Draft |
| | March 1 st | Submission |
| | March 07 th – 21 st | Presentation at departmental level |
| | March 21 st – 31 st | Assessment of the dissertations by IE and EE |
| | April 1 st – 15 th | Approval of dissertation results |
| | April 20 th | Production of final error free copy |
| | April 25 th | Final Submission |
| | May/ December | Graduation |

- i. Full-time students shall complete their coursework within the first 2 semesters of enrolment. Within the third semester, the candidate must submit the spiral and loose bound dissertation ready for presentation at department level and for examination, respectively.
- ii. Part-time candidates shall include those following evening programmes to complete their coursework within the first 18 months of enrolment.
- iii. The minimum time for the dissertation phase shall be 6 months.
- iv. The credit system shall be used to gauge the workload involved in a programme.
- v. One credit is equal to learning outcomes achievable in 10 notional hours of learning time determined on the basis of a learner with an average learning speed.
- vi. A minimum of 120 credits shall be completed to satisfy the coursework requirement before proceeding to practicum and to the dissertation phase, unless otherwise stated. A dissertation shall have 60 credits.
- vii. In addition, a candidate may be required to take certain undergraduate courses that are pre-requisites for some postgraduate courses. However, will not be considered in the final degree evaluation.

5. List of Courses

| | |
|---|------------|
| Part I: 10 Core courses (each 12 credits) | 120 |
| Part II: Electives: (each 12 credits) | 00 |
| Part III: Dissertation | 60 |
| Total | 180 |

Table 1: Core Courses

| Course Code | Course Title | Credits |
|--------------|---|------------|
| FE 600a | Research Methods in Education | 12 |
| FE 600b | Research Methods in Education | 12 |
| CT 640 | Curriculum and Teaching | 12 |
| CT 620 | Theories and Practice of Language Teaching and Learning | 12 |
| CT 621 | Advanced Language Teaching Methods | 12 |
| CT 622 | Evaluation and Analysis of Language Teacher Training and Professional Development | 12 |
| CT 623 | Language Education Policy | 12 |
| CT 624 | Issues in Language Curriculum Design | 12 |
| CT 625 | Production and Evaluation of Language Teaching and Learning Materials | 12 |
| CT 628 | Early Years Language Teaching and Literacy Development | 12 |
| FE 699 | Dissertation | 60 |
| Total | | 180 |

Each candidate will be required to select elective courses from the list indicated in Table 2.

Table 2: Electives Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| CT 626 | Researching Tanzanian Languages for Education development | 12 |
| CT 647 | Advanced Curriculum Development | 12 |
| CT 629 | Multilingual Education | 12 |
| CT 627 | Language of instruction Policy | 12 |

6. Programme Evaluation and Examinations

Each course in MED LED programme shall be offered and assessed in the same semester and a grade awarded.

- i. With an approval of the respective SoED Board, the coursework completed in postgraduate studies at other universities may contribute to the coursework requirements for the MED LED degree programme. The equivalent weighting of this coursework will be determined by SoED Board in accordance to the University Qualification Framework set by the Tanzania Commission for Universities (TCU).
- ii. The average grade for all postgraduate courses must be at least "B".
- iii. A candidate whose GPA is below 2.7 shall be discontinued from the programme.
- iv. A candidate whose overall GPA is 2.7 or above shall be allowed to do supplementary examinations in the failed courses.
- v. The maximum grade that can be attained from a supplementary examination shall be "B."
- vi. Candidates who fail in more than one supplementary examination shall be discontinued from the programme.
- vii. A candidate who fails in only one supplementary examination shall be allowed to repeat the failed course.
- viii. A candidate who repeats a course and fails in the first sitting examination shall not be allowed to do supplementary examinations, and shall be discontinued from the programme.

- ix. The final examination shall be held immediately upon completing a course. The weighting of this final examination in determining the grade for the course shall be University Examination (50%) and Continuous Assessment (50%) except for a course on practicum. The form of assessment shall be specified by respective instructors at the beginning of the course.
- x. For the dissertation phase, the candidate in consultation with the supervisor shall formulate a research proposal.
- xi. University guidelines on the preparation of dissertations shall apply.

MASTER OF EDUCATION IN PHYSICAL EDUCATION AND SPORT SCIENCE (MED PESS)

1. Introduction

SoED offers a Master of Education in Physical Education and Sport Sciences (MED PESS) by coursework and dissertation. The Master of Education in Physical Education and Sport Sciences (MED-PESS) training provides an opportunity to a candidate to pursue a body of knowledge and experience to enable them to develop perspectives and research projects that eventually contribute to a repertoire of wide knowledge and practice useful for improvement of human life. Training in a master of Education in Physical Education and Sport Sciences will help learners be competent in teaching PE and sport sciences at different levels and also help those who will be working in the sport industry as sport administrators and coaches.

2. Objectives of the Programme

The objectives of the programme are to:

- i. Produce post graduates with knowledge, skills and attitudes in physical education and sport sciences;
- ii. Equip students with research techniques in physical education and sport sciences;
- iii. Train personnel in physical education and sport sciences;
- iv. Advance the programme participants in research approaches and skills to enable them to undertake well-based research into a variety of physical education and sports issues and problems; and
- v. Prepare learners for further education in physical education and sport sciences and increase competence in related fields.

Entry Requirements

- i. The minimum qualification for admission into MED PESS is a bachelor degree in education with a background in sports and science subjects with a GPA of 2.7 or above from UDSM or any other institution recognized by TCU.
- ii. A Postgraduate Diploma in Education offered by SoED, or any other institution recognized by TCU may also suffice for consideration for admission into MED PESS.
- iii. The SoED Board may also consider applicants with any other equivalent qualification not mentioned above, subject to the Senate approval.

3. Programme Structure

MED PESS programme comprises coursework and dissertation. Full-time students shall complete their coursework within the first 2 semesters of enrolment. Within the third, semester the candidate must submit the spiral and loose bound dissertation ready for presentation at department level and for examination respectively.

| <i>Semester</i> | <i>Activities</i> | |
|-----------------|---------------------------|-----------------------------------|
| I | Coursework | |
| II | Coursework | |
| III | Dissertation | |
| | <i>Period</i> | <i>Activities</i> |
| | August – September | Proposal development and approval |
| | October – November | Field Work |
| | December | Data Analysis |
| | January | First Draft |
| | February 15 th | Second Draft |

| | | |
|--|--|--|
| | February 28 th / 29 th | Final Draft |
| | March 1 st | Submission |
| | March 07 th – 21 st | Presentation at departmental level |
| | March 21 st – 31 st | Assessment of the dissertations by IE and EE |
| | April 1 st – 15 th | Approval of dissertation results |
| | April 20 th | Production of final error free copy |
| | April 25 th | Final submission |
| | May/December | Graduation |

- i. Part-time candidates shall include those following evening programmes to complete their coursework within the first 18 months of enrolment.
- ii. The minimum time for the dissertation phase shall be 6 months.
- iii. The credit system shall be used to gauge the workload involved in a programme.
- iv. One credit is equal to learning outcomes achievable in 10 notional hours of learning time determined on the basis of a learner with an average learning speed.
- v. A minimum of 120 credits shall be completed to satisfy the coursework requirement before proceeding to practicum and to the dissertation phase, unless otherwise stated. A dissertation shall have 60 credits.
- vi. In addition, a candidate may be required to take certain undergraduate courses that are pre-requisites for some postgraduate courses. However, one will not be considered in the final degree evaluation.

4. List of Courses

| | |
|--|------------|
| Part I: 8 Core courses each 12 credits | 96 |
| Part II: 2 electives each 12 credits | 24 |
| Part III: Dissertation | 60 |
| Total Credits | 180 |

Table 1: Core Courses

| Course Code | Course Title | Credits |
|--------------|--|------------|
| PE 600 | Research Methods in Exercise and Sports Sciences | 12 |
| PE 611 | Leadership and Management in Physical Education and Sports | 12 |
| PE 604 | Scientific Principles of Sports Training | 12 |
| PE 609 | Professional Preparation and Curriculum Design in Physical Education and Sport | 12 |
| PE 622 | Sports Economics and Marketing | 12 |
| PE 603 | Legal and Ethical Aspects in Physical Education and Sports | 12 |
| PE 608 | Physical Education and Sports for Special Populations | 12 |
| PE 613 | Sport and Exercise Psychology | 12 |
| SE 699 | Dissertation | 60 |
| Total | | 156 |

Each candidate will be required to select **two elective courses** from the list indicated in the table 2.

Table 2: Elective Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| PE 605 | Sports Safety, Injury Management and Rehabilitation | 12 |
| PE 607 | Pedagogy of Physical Education and Sports | 12 |
| PE 606 | Sociology of Physical Education and Sports | 12 |
| PE 621 | Youth and Sports Development | 12 |

5. Programme Evaluation and Examinations

- i. Each course in MED PESS programme shall be offered and assessed in the same semester and the grade awarded.
- ii. With an approval of the respective SoED Board, the coursework completed in postgraduate studies at other universities may contribute to the coursework requirements for the MED PESS degree programme. The equivalent weighting of this coursework will be determined by SoED Board in accordance to the University Qualification Framework set by the Tanzania Commission for Universities (TCU).
- iii. The average grade/Pass for all postgraduate courses must be at least “B”.
- iv. A candidate whose GPA is below 2.7 shall be discontinued from the programme.
- v. A candidate whose overall GPA is 2.7 or above shall be allowed to do supplementary examinations in the failed courses.
- vi. The maximum grade that can be attained from a supplementary examination shall be “B”.
- vii. Candidates who fail in more than one supplementary examination shall be discontinued from the programme.
- viii. A candidate who fails in only one supplementary examination shall be allowed to repeat the failed course.
- ix. A candidate who repeats a course and fails in the first sitting examination shall not be allowed to do supplementary examinations, and shall be discontinued from the programme.
- x. The final examination shall be held immediately upon completing a course. The weighting of this final examination in determining the grade for the course shall be University Examination (50%) and Continuous Assessment (50%_ except for a course on practicum. The form of assessment shall be specified by respective instructors at the beginning of the course.
- xi. For the dissertation phase, the candidate in consultation with the supervisor shall formulate a research proposal.
- xii. University guidelines on the preparation of dissertations shall apply.

PhD PROGRAMMES OFFERED BY THE SCHOOL OF EDUCATION DOCTOR OF PHILOSOPHY IN EDUCATION BY THESIS AND BY COURSEWORK AND DISSERTATION

1. Introduction

The School of Education offers a PhD in Education by thesis as well as by coursework and dissertation. The PhD in Education at SoED aims at exposing the advanced postgraduate (doctoral) students to a strong theoretical foundation to enable them to enquire into and interrogate the *whats*, *whys* and *hows* of educational policy and practice in society; grounding the programme participants in research approaches and skills to enable them to undertake well-based research into a variety of educational issues and problems. The programme will also enable the participants to acquire pertinent skills in data analysis that will facilitate the writing of informative research reports that can guide public policy and pedagogical practice; preparing and producing individuals for advanced intellectual service within institutions of higher learning - universities and university colleges - in Tanzania and beyond, which are currently (and will for the foreseeable future remain) short of teaching and research staff for various programmes in the field of education; providing a framework within which students can conduct a piece of original educational research relating to their own experience and interests; developing fully trained and competent educational researchers, who are able to understand and use research techniques appropriate to their subject area and to be conversant with the approaches used by other social scientists; enabling students to think through how they can use their existing knowledge and skills in different contexts and apply them to a variety of problems; and, progressively, to identify their own needs for training; and equipping students to pursue other professional research activities subsequently.

2. Objectives of the Programme

The PhD programme at the School of Education aims at:

- i. enabling participants to acquire pertinent skills in data analysis that will facilitate the writing of informative research reports that can guide public policy and pedagogical practice;
- ii. preparing and producing individuals for advanced intellectual service within institutions of higher learning - universities and university colleges - in Tanzania and beyond, which are in need of teaching and research staff for various programmes in the field of education;
- iii. providing a framework within which students can conduct a piece of original educational research relating to their own experience and interests;
- iv. developing fully trained and competent educational researchers who are able to understand and use research techniques appropriate to their subject area and to be conversant with the approaches used by other social scientists and
- v. enabling students to think through how they can use their existing knowledge and skills in different contexts and apply them to a variety of problems; and, progressively, to identify their own needs for training and equipping students to pursue other professional research activities subsequently.

3. Entry Requirements

- i. A candidate for admission to the PhD in Education at SoED must hold a Bachelor (with a GPA of 3.5 or above from the University of Dar es Salaam or any other higher learning institution recognized by TCU) and a Master (with a GPA of 4.0 or above from UDSM or any other higher learning institution recognized by TCU) degrees in Education from the University of Dar es Salaam or of any other institution recognized by TCU.
- ii. Candidates who possess a relevant first class in a Bachelor in Education may be considered for PhD registration after initially registering for the Master degree (thesis), and demonstrating outstanding performance after doing postgraduate training for at least one year, upon recommendations of SoED Postgraduate Studies and Research (Higher Degrees) Committee and authorization by Senate.

4. Programme Structure (By Course Work and Dissertation)

The PhD in Education by thesis degree programme involves a minimum of three years for full-time candidates, or five years for part-time registered candidates. The PhD in Education by Coursework and Dissertation degree programme involves a minimum of four years for full-time candidates, or six years for part-time registered candidates.

| <i>Semester</i> | <i>Activities</i> |
|-----------------|--|
| Semester I | Coursework |
| Semester II | Coursework and approval; Preparation of Comprehensive Examination (CE) questions and composition of CE panels |
| Semester III | Comprehensive Examination and approval |
| Semester IV | Dissertation phase: <ul style="list-style-type: none">- Assigning a research supervisor- Proposal writing and approval at Department and School levels- Research clearance |
| Semester V | Dissertation phase: <ul style="list-style-type: none">- Field work/ data collection |
| Semester VI | Dissertation phase: <ul style="list-style-type: none">- Data analysis- Report writing- Writing and submission of a journal paper |
| Semester VII | Dissertation phase: <ul style="list-style-type: none">- Submission of first and final draft of a dissertation |

| | |
|---------------|--|
| | <ul style="list-style-type: none"> - Filling in intention to submit forms - Submission of dissertation for internal and external examination |
| Semester VIII | Dissertation phase: <ul style="list-style-type: none"> - Viva Voce Graduation |

The PhD in Education by Coursework and Dissertation degree programme has several specializations in education as it appears in the table of courses.

5. Comprehensive Examination

- i. At the end of the coursework part, candidates shall be required to do a comprehensive examination as prescribed by the School of Education before they can be allowed to proceed to the dissertation phase.
- ii. A comprehensive examination shall mean a specific type of examination aimed at examining the candidate's broad philosophical and conceptual understanding of the subject area as well as the capacity to develop and communicate logical arguments.
- iii. The comprehensive examination shall be administered after the candidate has the coursework part, but prior to embarking on the dissertation part and shall have the following features:
 - a) The examination of the candidate's broad philosophical and conceptual understanding of the subject area, as well as the capacity to develop and communicate logical arguments.
 - b) It shall be both oral and written and shall be assessed on a pass or fail basis.
 - c) The oral comprehensive examinations shall not take more than three hours.
- iv. A comprehensive examination shall be judged by a panel of experts in the relevant field who possess a PhD. The panel should be constituted by the Principal/Dean/Director in consultation with Heads of Departments and shall have an odd number of members i.e. 3 or 5. The most senior member shall chair the panel.
- v. A candidate who fails a comprehensive examination shall be required to take another comprehensive examination as recommended by the examination panel.

6. List of Courses

| | |
|--|----------------|
| Part I: 4 Core courses each 24 credits | 96 |
| Part II: 4 Specialized courses | 96 |
| Part III: 2 Electives each 12 credits | 48 |
| Part IV: Comprehensive Exam | 00 (Pass/fail) |
| Part III: Dissertation | 480 |
| Total | 720 |

List of All Courses

| Course Title | Code | Credits |
|--|--------|---------|
| <i>Core Courses</i> | | |
| Educational Research: Philosophy and Practice | SE 700 | 24 |
| Principles of Academic Writing and Dissemination | SE 701 | 24 |
| Advanced Quantitative Research Methods in Education | SE 702 | 24 |
| Advanced Qualitative Research Methods in Education | SE 703 | 24 |
| Specialized Courses | | |
| ADULT AND COMMUNITY EDUCATION | | |
| Theories, Policy and Practices in Lifelong Learning | SE 710 | 24 |
| Adult Education and Globalization | SE 711 | 24 |
| Media Technology and Tutoring in Distance Learning | SE 712 | 24 |
| CURRICULUM AND TEACHING | | |
| Assessment of Learning and Learning Outcomes | SE 720 | 24 |
| History and Philosophy of Teaching and Learning of Science Education | SE 721 | 24 |
| Curriculum Development and Implementation | SE 722 | 24 |

| | | |
|--|--------|----|
| Curriculum Evaluation | SE 723 | 24 |
| Curriculum and Instruction in Education | SE 724 | 24 |
| LANGUAGE EDUCATION | | |
| Theories, Policy and Practices in Language Education | SE 725 | 24 |
| Contemporary issues in Language Education | SE 726 | 24 |
| Issues in Language Teaching | SE 727 | 24 |
| Language in Education in Africa | SE 728 | 24 |
| Advancing Literacy in Higher Education (Elective) | SE 729 | 24 |
| Language Testing (Elective) | SE 790 | 24 |
| EDUCATIONAL MANAGEMENT AND POLICY STUDIES | | |
| Educational Leadership and Management of Change | SE 730 | 24 |
| Education Policies and Practices in a Global Society | SE 731 | 24 |
| Financial Management in Education | SE 732 | 24 |
| EDUCATIONAL FOUNDATIONS | | |
| Historical Development and Challenges of Education Systems in Tanzania and Beyond | SE 740 | 24 |
| Philosophical Foundations in Educational Practices | SE 741 | 24 |
| Ethical Issues in Education | SE 742 | 24 |
| Comparative and International Education | SE 743 | 24 |
| EDUCATIONAL PSYCHOLOGY | | |
| Issues in the Psychology of Teaching and Learning | SE 750 | 24 |
| Abnormal Psychology | SE 751 | 24 |
| Issues in Inclusive Education and Gender | SE 752 | 24 |
| Principles, Issues and Application of Psychological Testing | SE 753 | 24 |
| EDUCATIONAL GUIDANCE AND COUNSELING | | |
| Theories of Counseling | SE 760 | 24 |
| Advanced Methods and Skills of Counseling | SE 761 | 24 |
| Counseling and Culture | SE 762 | 24 |
| PHYSICAL EDUCATION AND SPORTS SCIENCES | | |
| Issues in Physical Education and Sports | SE 770 | 24 |
| Management and Administration of Physical Education and Sport | SE 771 | 24 |
| Behavior in Physical Education and Sport | SE 772 | 24 |
| YOUTH, GENDER, EDUCATION AND DEVELOPMENT | | |
| Youth and Young Adults Studies and Education (Core) | SE 780 | 24 |
| Vocational Education and Training for Youth Skills Development and Employment (Core) | SE 781 | 24 |
| Gender, Education and Development (Core) | SE 782 | 24 |
| Contemporary Issues in Education and Youth (Elective) | SE 783 | 24 |
| <i>Elective Courses</i> (to be studied elsewhere within the University or outside) | XXX | 24 |

SoED STAFF LIST

Office of the Dean

Senior Lecturer and Dean

E. J. Kafanabo, Dip, (Klerruu), BSc (Dar), MSc (Twente), PhD (Pretoria)

Senior Lecturer and Associate Dean

B. K. Kanukisya, BEd (Dar), M.Phil. CIE, PhD (Oslo)

Lecturer and Coordinator of Postgraduate Studies

A. P. Tarmo, BEd, MED (Dar), PhD (Sussex)

Lecturer and Coordinator of Undergraduate Studies

H. J. Magosho, BEd, MA (Dar), PhD (East China Normal University)

Lecturer and Coordinator of Teaching Practice

I. Nzima, BAEd, PGD, MA (Dar), PhD (Linnaeus)

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Technical Staff

D. Vicent, Cert, Dip (Dar)

* On Study Leave

** On Sabbatical Leave

*** On Leave of Absence/Secondment

SCHOOL OF JOURNALISM AND MASS COMMUNICATION (SJMC)

INTRODUCTION

The School of Journalism and Mass Communication (SJMC) was born out of the former Tanzania School of Journalism (TSJ). It was established initially as the Institute of Journalism and Mass Communication (IJMC) under the UDSM Act No. 12 of 1970, which accordingly, revoked the TSJ Act. The IJMC was then reconstituted as a professional school to become the SJMC. The integration into the UDSM enabled the School to start offering degree programmes in Journalism, Mass Communication, and Public Relations and advertising both the undergraduate and postgraduate levels.

PROGRAMMES OFFERED BY THE SCHOOL

The SJMC offers a Postgraduate Diploma and an MA in Mass Communication, and a PhD in Journalism and Mass Communication (by thesis).

| S/N | Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|-----|---|-----------------------------|------------------|-----------|---------------------|---------------------|
| | | | | | Tanzanian (TZS) | Non-Tanzanian (USD) |
| 1 | Postgraduate Diploma in Mass Communication | Coursework and Report | Full-time | 12 months | 2,600,000 | 3,360 |
| 2 | Postgraduate Diploma in Mass Communication | Coursework and Report | Evening | 18 months | 3,900,000 | 4,965 |
| 3 | Master of Arts in Mass Communication | Coursework and Dissertation | Full-time | 18 months | 3,900,000 | 4,965 |
| 4 | Master of Arts in Mass Communication | Thesis | Full-time | 24 months | 5,000,000 | 6,625 |
| 5 | Doctor of Philosophy in Journalism and Mass Communication | Thesis | Full-time | 36 months | 2,700,000 per annum | 3,360 per annum |
| 6 | Doctor of Philosophy in Journalism and Mass Communication | Thesis | Part-time | 60 months | 2,700,000 per annum | 3,360 per annum |

POSTGRADUATE DIPLOMA OFFERED BY THE SCHOOL

1. Introduction

The programme is intended to cater for the needs of those individuals either without the qualifications to join a degree programme or with interest in pursuing areas of mass communication but have not taken a relevant degree programme.

2. Objectives of the Programme

The programme aims to:

- i. provide specialised training in specific fields of Mass Communication;
- ii. enhance competence and skills in specialised areas of Mass Communication, Journalism, Public Relations and Advertising; and
- iii. facilitate possible upgrading for BA Mass Communication, BA Journalism and BA Public Relations and Advertising degree holders who do not have the requisite GPA to be admitted into the MA programme.

3. Entry Requirements

- i. A candidate must have a good first degree or master's degree from a recognised University; OR
- ii. Possess an Advanced Diploma in any discipline.

4. Programme Structure

The Postgraduate Diploma in Mass Communication is offered as a full-time and an evening programme. The full-time programme lasts for one academic year whereas the evening/part-time programme lasts for eighteen (18) months. The evening programme is suitable for candidates who cannot manage to undertake full-time studies.

In addition to the general University examination regulations, the following examination regulations shall apply:

- i. Each course shall be subjected to a final examination at the end of the semester/course.
- ii. A full-time or evening candidate whose overall GPA at the end of the second semester is below 2.7 shall be discontinued from the programme.
- iii. A full-time or evening candidate whose overall GPA at the end of the second semester is 2.7 or above but has failed in one or more courses shall be required to sit for a supplementary examination in the failed courses.
- iv. A candidate who fails in any subject in supplementary examinations shall be allowed to repeat the failed subject during the semester in which the subject is offered - no candidate shall be allowed to repeat the failed subject twice
- v. The minimum attainable grade in a supplementary examination shall be “B”.
- vi. A candidate who fails any subject in a supplementary examination shall be allowed to continue to the next semester but shall be required to repeat the failed subject during the semester in which the subject is offered. No candidate shall be allowed to repeat the failed subject twice
- vii. Candidates will be required to write a research project paper. Each student shall be allocated a supervisor, with whom the student should have regular contact during the research period.
- viii. The proposals for the project shall be submitted by the middle of the second semester.
- ix. The project shall carry a total of 12 credits.

5. List of Courses

Semester I

Candidates will be required to take at least 84 credits from the following courses:

Core Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| CO 500 | Introduction to Mass Communication Theory | 12 |
| CO 502 | Writing for the Media | 12 |
| CO 503a | Radio Broadcasting | 12 |
| CO 503b | Television Broadcasting | 12 |
| CO 505 | Photojournalism | 12 |
| CO 506 | Media Law | 12 |
| CO 510 | Public Relations and Advertising | 12 |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|-------------------------------|---------|
| CO 501 | Journalism Issues and History | 12 |
| CO 504 | Editing, Layout and Graphics | 12 |

Semester II

Candidates will be required to take at least 84 credits from the following courses inclusive of 24 credits of the Research Report (CO 599):

Core Courses

| Course Code | Course Title | Credits |
|-------------|-----------------------------|---------|
| CO 507 | Journalism Ethics | 12 |
| CO 508 | Mass Communication Research | 12 |
| CO 511 | Media Management | 12 |
| CO 513 | Advanced Print Journalism | 12 |

| | | |
|--------|---|----|
| CO 514 | Advanced Broadcast Journalism | 12 |
| CO 515 | Advanced Public Relations and Advertising | 12 |
| CO 599 | Research Report | 24 |

Elective Courses

| Course Code | Course Title | Credits |
|--------------------|------------------------------|----------------|
| CO 509 | Public Information Programme | 12 |
| CO 512 | Specialised Writing | 12 |

Courses for the Evening Programme

The courses for the evening programme shall be conducted as follows:

Year 1: Semester I

Candidates are required to take all 72 credits of the following courses:

Core Courses

| Course Code | Course Title | Credits |
|--------------------|---|----------------|
| CO 500 | Introduction to Mass Communication Theory | 12 |
| CO 502 | Writing for the Media | 12 |
| CO 503a | Radio and Television | 12 |
| CO 503b | Television Broadcasting | 12 |
| CO 501 | Journalism Issues and History | 12 |
| CO 504 | Editing, Layout and Graphics | 12 |

Semester II

Candidates are required to take all 84 credits:

| Course Code | Course Title | Credits |
|--------------------|----------------------------------|----------------|
| CO 505 | Photojournalism | 12 |
| CO 506 | Media Law | 12 |
| CO 510 | Public Relations and Advertising | 12 |
| CO 507 | Journalism Ethics | 12 |
| CO 509 | Public Information Programme | 12 |
| CO 511 | Media Management | 12 |
| CO 512 | Specialised Writing | 12 |

Year 2: Semester I

Candidates are required to take at all 60 credits in addition to 24 credits of the Research Report (CO 599):

| Course Code | Course Title | Credits |
|--------------------|---|----------------|
| CO 508 | Mass Communication Research | 12 |
| CO 513 | Advanced Print Journalism | 12 |
| CO 514a | Advanced Radio Broadcast | 12 |
| CO 514b | Advanced Television Broadcasting | 12 |
| CO 515 | Advanced Public Relations and Advertising | 12 |
| CO 599 | Research Report | 24 |

6. Programme Evaluation and Examinations

The final examination shall contribute 50% to the final grade of a course and the continuous assessment shall contribute 50%.

MASTER PROGRAMMES OFFERED BY THE SCHOOL

1. Introduction

Currently, the School offers one MA in Mass Communication programme by coursework and dissertation, and by thesis.

2. Objectives of the Programme

The Master of Arts in Mass Communication programme has been formulated to meet the needs and growth of the current media industry, which require well-qualified professionals with sound knowledge and skills necessary to address the technological, economic as well as social changes taking place in the world and within the country today. The programme creates an avenue for practitioners who have been in the industry for a long time but need to strengthen their credentials. Also, it provides opportunity for universities and other institutions to train their teaching staff in media studies.

3. Entry Requirements

For admission, applicants must be first degree holders from recognised universities in a relevant discipline, preferably in media-related fields such as journalism and mass communication or public relations and advertising, with a minimum GPA of 2.7. Applicants with a postgraduate diploma from a recognised university coupled with work experience also qualify. A proof of English Language proficiency at the time of application from certified centres that offer such tests may also be required.

4. Programme Structure

The MA programme lasts for 18 months. Students will undertake a coursework for two semesters and thereafter work on a dissertation in a period of six months. To graduate, a student needs a minimum of 180 credits and a maximum of 204 credits. Students need to take four (4) core courses and a maximum of two (2) elective courses per semester. Students are also required to write a dissertation that meets the requirements of the University of Dar es Salaam. The dissertation carries 60 credits and is graded.

5. List of Courses

Semester I

Core Courses

| | | |
|--------|--|----|
| CO 600 | Communication Theory | 12 |
| CO 601 | Research Methods in Mass Communication | 12 |
| CO 602 | Media, Gender and Society | 12 |
| CO 603 | Writing for Mass Media | 12 |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|-----------------------------|---------|
| DS 610 | Issues in Development | 8 |
| CO 604 | International Media Systems | 12 |
| CO 605 | Corporate Communication | 12 |
| CO 606 | Media in East Africa | 12 |

Semester II

Core Courses

| Course Code | Course Title | Credits |
|-------------|--------------------------------|---------|
| CO 607 | Media Ethics | 12 |
| CO 608 | Media Laws and Policies | 12 |
| CO 609 | Media Management and Economics | 12 |
| CO 610 | New Media Technologies | 12 |

Elective Courses

| Course Code | Course Title | Credits |
|--------------------|-------------------------------------|----------------|
| CO 611 | Colloquium on Media and Development | 12 |
| CO 612 | Media and Democracy | 12 |
| CO 613 | Media Criticism | 12 |
| CO 614 | Master Project | 8 |

Semester III

Core Course

| Course Code | Course Title | Credits |
|--------------------|---------------------|----------------|
| CO 669 | Dissertation | 60 |

6. Programme Evaluation and Examinations

The final University examination shall contribute 50% to the final grade of a course and the continuous assessment carries the remaining 50%. The dissertation, on the other hand, shall be graded out of 100% in accordance with established Postgraduate Guidelines and will account for 60 credits.

PhD PROGRAMME OFFERED BY THE SCHOOL

1. Introduction

Presently, the School only offers a PhD in Journalism and Mass Communication by thesis. The doctoral programme gives students an opportunity to undertake research and, subsequently, write a thesis.

2. Objectives of the Programme

The PhD in Journalism and Mass Communication programme is designed to prepare independent scholars for academic careers in teaching and research in mass communication and other media-related fields. It seeks to build a solid foundation in the media discipline among candidates through multifaceted exploration of theories and methods that influence the shape and scope of research in journalism, mass communication, and other media fields including Corporate Communication.

3. Entry Requirements

A master's degree in media-related fields of Journalism, Mass Communication and Public Relations and Advertising from the University of Dar es Salaam or an equivalent master's degree from a recognised university.

4. Programme Structure

The current PhD programme in Journalism and Mass Communication is offered only by thesis. The programme is based on research and writing of a thesis. This is done under close supervision and lasts for three years. Students can select research topics in media-related areas such as Journalism, Mass Communication, and Public Relations and Advertising.

5. List of Courses

As a thesis-based programme, the PhD in Journalism and Mass Communication offers no structured class-based courses.

6. Programme Evaluation and Examinations

The thesis is evaluated by External and Internal Examiners and, subsequently, the candidate defends it before a Viva Voce Panel. The PhD thesis is graded in accordance with the Postgraduate Guidelines of the University of Dar es Salaam.

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T. Theodory, BA (Dar)

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Senior Artisans

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S. K. Kitundu, AdvDip, PGD (Dar)

Mlimani Media Producers/Reporters/Co-ordinators

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S. M. Mustapher, BA, MA (SAUT)

Acting Media Manager

S. M. Mustapher, BA, MA (SAUT)

* On Study Leave

** On Sabbatical Leave

*** On Leave of Absence/Secondment

SCHOOL OF AQUATIC SCIENCES AND FISHERIES TECHNOLOGY (SoAF)

INTRODUCTION

The School of Aquatic Sciences and Fisheries Technology (SoAF) is a newly established School of the University of Dar es Salaam established in September 2020 through the upgrading of the then Department of Aquatic Sciences and Fisheries Technology, a unit that was under the College of Agricultural Sciences and Fisheries Technology (CoAF). SoAF expertise spans in all aquatic habitats (rivers, lakes, wetlands, estuaries, and coastal and marine environment), fisheries and aquaculture, environmental modelling, pollution studies, socio-economics, etc. As a unit of the University of Dar es Salaam, the School is mandated to conduct training and research, as well as provision of public services including consultancy and outreach services related to aquatic sciences. The then Department of Aquatic Sciences and Fisheries Technology provided advisory and consultancy services to government institutions, non-governmental organizations, industry and private individuals either on an interdisciplinary level or on a specific area, the activities that are currently being offered by SoAF.

SoAF comprise of 2 teaching departments, namely:

- i. Department of Aquatic Sciences and Fisheries Technology
- ii. Department of Aquaculture Technology

POSTGRADUATE PROGRAMMES OFFERED BY THE SCHOOL

- i. Master of Science by coursework and dissertation
- ii. Master of Science by thesis
- iii. Doctor of Philosophy (PhD) by coursework and dissertation
- iv. Doctor of Philosophy (PhD) by thesis

| S/N | Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|-----|--|-----------------------------|------------------|-----------|--------------------|---------------------|
| | | | | | Tanzanian (TZS) | Non-Tanzanian (USD) |
| 1. | Master of Science in Fisheries and Aquaculture | Coursework and Dissertation | Full-time | 24 months | 4,250,000 | 8,040 |
| 2. | Master of Science in Aquatic Sciences | Thesis | Full-time | 24 months | 6,375,000 | 8,040 |
| 4 | Doctor of Philosophy (PhD) in Aquatic Sciences | Coursework and Dissertation | Full-time | 48 months | 2,500,000 per year | 4,020 per year |
| 3. | Doctor of Philosophy (PhD) in Aquatic Sciences | Thesis | Full-time | 36 months | 2,500,000 per year | 4,020 per year |

MASTER OF SCIENCE IN FISHERIES AND AQUACULTURE

1. Introduction

The programme consists of two parts: course work (Part I) and dissertation (Part II), extending over a period of two academic years (24 months) distributed into four semesters of full-time attendance from the date of registration. The first two semesters in the first year are spent on course work, with final examinations at the end of each semester, while the second year is devoted to dissertation work. During the second semester of

the first year, students are required to develop research proposals detailing the theoretical background and methodology, as a preparation for dissertation work.

The minimum number of credits for graduation is 192, of which 144 are for coursework and 48 for dissertation. Of the coursework credits, each student is required to take 104 credits from core courses and a minimum of 40 credits from elective courses. Completing a course is defined as obtaining a B grade or higher than that. A student must pass both the course work and dissertation to qualify for the degree award.

2. Entry Requirements

Admission into the programme will be in accordance with the University of Dar es Salaam regulations regarding postgraduate studies. To be eligible for admission to the programme, the applicant should have a first degree (BSc in Fisheries, Aquaculture, Zoology, Marine Biology, and Aquatic Environmental Sciences,) from a recognized institution. Admission may also be based on equivalent qualifications.

3. Assessment and Examinations

The UDSM general examination regulations apply.

4. List of Courses

Core Courses

| Course Code | Course Title | Credits |
|-------------------------------------|---|------------|
| AF 601 | Advanced Aquatic Ecology | 12 |
| AF 602 | Fisheries Socio-economics and Management | 12 |
| AF 603 | Fish Population Dynamics and Stock Assessment | 12 |
| AF 604 | Advanced Aquaculture Systems | 12 |
| AF 605 | Fish Nutrition and Feed Technology | 12 |
| AF 606 | Aquafarm Planning and Management | 12 |
| AF 607 | Fish Health Protection | 8 |
| AF 608 | Broodstock Management and Hatchery Production | 12 |
| AF 609 | Post Harvest Technology in Fisheries | 12 |
| AF 699 | Dissertation | 48 |
| Total number of Core Credits | | 152 |

Elective Courses

| Course Code | Course Title | Credits |
|---|---|-----------|
| AF 610 | Fish Physiology and Endocrinology | 8 |
| AF 611 | Environmental Impact of Aquaculture and Capture Fisheries | 12 |
| AF 612 | Systematic Ichthyology | 8 |
| AF 613 | Ecology and Behaviour of Fishes | 8 |
| AF 614 | Recreational and Ornamental Fisheries | 8 |
| AF 615 | Aquatic Resources and Biodiversity Management | 8 |
| BL 607 | Biostatistics | 12 |
| BT 603 | Seaweed Culture and Processing | 12 |
| SC 601 | Advanced Research Methods | 12 |
| Total number of Elective Credits | | 88 |

DOCTOR OF PHILOSOPHY IN AQUATIC SCIENCES (BY COURSEWORK AND DISSERTATION)

1. Introduction

It is a full-time programme using a mixed mode of taught courses and dissertation research. For the taught part, coursework assessment weighs 50% and the final examination makes up another 50% of the total marks. The dissertation carries 100% of the total course assessment. In addition to sitting for and passing the examinations, candidates are required to do a comprehensive examination before they are allowed to

proceed with dissertation. The dissertation may be submitted either as a single monograph or at least 5 journal papers with introduction and conclusion chapters as stipulated under section 6.5.3 of the General Regulations and Guidelines for Postgraduate Programmes. Two of the journal papers must be published or accepted for publication in international journals recognized by the University of Dar es Salaam. The aim is to train candidates to write acceptable manuscripts and instill a culture of publishing scientific results.

2. Entry Requirements

The programme targets candidates with Master degree in biological science subjects. Entry requirements will follow University of Dar es Salaam criteria as stipulated under section 1.4.3 of the General Regulations and Guidelines for Postgraduate Programmes.

3. List of Courses

Core Courses: Fisheries Stream

| Course Code | Course Title | Credits |
|-------------------------------------|--|------------|
| AQ 701 | Philosophical Issues and Ethics in Scientific Research | 24 |
| AQ 711 | Tropical Fish Population Dynamics | 24 |
| AQ 713 | Biology of Finfish and Shellfish | 24 |
| AQ 715 | Management and Conservation of Aquatic Resources | 24 |
| AQ 702 | Aquatic Systems, Climate Variability and Change | 24 |
| AQ 712 | Ecology of Fishes | 24 |
| AQ 714 | Fisheries Policy, Laws, Planning and Management | 24 |
| Total number of Core Credits | | 168 |

Core Courses: Aquaculture Stream

| Course Code | Course Title | Credits |
|-------------------------------------|--|------------|
| AQ 701 | Philosophical Issues and Ethics in Scientific Research | 24 |
| AQ 721 | Advanced Aquaculture Systems | 24 |
| AQ 722 | Aquatic Animal Nutrition | 24 |
| AQ 723 | Aquaculture Economics | 24 |
| AQ 702 | Aquatic Systems, Climate Variability and Change | 24 |
| AQ 716 | Fish Health and Pathology | 24 |
| Total number of Core Credits | | 144 |

Core Courses: Biological Oceanography Stream

| Course Code | Course Title | Credits |
|-------------------------------------|--|------------|
| AQ 701 | Philosophical Issues and Ethics in Scientific Research | 24 |
| AQ 731 | Marine Microbial Interactions | 24 |
| AQ 732 | Marine Photosynthesis and Primary Production | 24 |
| AQ 702 | Aquatic Systems, Climate Variability and Change | 24 |
| AQ 733 | Secondary Production in the Pelagic Realm | 24 |
| AQ 734 | Benthic Ecology and Production | 24 |
| Total number of Core Credits | | 144 |

Core Courses: Limnology Stream

| Course Code | Course Title | Credits |
|-------------|--|---------|
| AQ 701 | Philosophical Issues and Ethics in Scientific Research | 24 |
| AQ 741 | Dynamics of Freshwater Systems | 24 |
| AQ 743 | Advanced Watershed Management | 24 |
| AQ 702 | Aquatic Systems, Climate Variability and Change | 24 |

| Course Code | Course Title | Credits |
|-------------------------------------|-------------------|------------|
| AQ 742 | Eco-hydrology | 24 |
| AQ 744 | Applied Limnology | 24 |
| Total number of Core Credits | | 144 |

Elective Courses: Fisheries Stream

| Course Code | Course Title | Credits |
|-------------------------------------|---|------------|
| AQ 715 | Management and Conservation of Aquatic Resources | 24 |
| AQ 717 | Management of Small Impoundments | 24 |
| AQ 719 | Advanced Fisheries Economics | 24 |
| AQ 736 | Ocean Colour Remote Sensing | 24 |
| AQ 716 | Fish Health and Pathology | 24 |
| AQ 720 | Social and Environmental Impacts of Fisheries and Aquaculture | 24 |
| AQ 718 | Modern Techniques in Ichthyo-taxonomy | 24 |
| AQ 725 | Fisheries and Aquaculture Extension | 24 |
| Total number of Core Credits | | 192 |

Elective Courses: Aquaculture Stream

| Course Code | Course Title | Credits |
|-------------------------------------|---|------------|
| AQ 713 | Biology of Finfish and Shellfish | 24 |
| AQ 735 | Molecular Techniques and Bioinformatics | 24 |
| AQ 724 | Construction of Aquaculture Facilities | 24 |
| AQ 725 | Fisheries and Aquaculture Extension | 24 |
| AQ 726 | Aqua-products Marketing and Trade | 24 |
| AQ 718 | Modern Techniques in Ichthyo-taxonomy | 24 |
| Total number of Core Credits | | 144 |

Elective Courses: Biological Oceanography stream

| Course Code | Course Title | Credits |
|-------------------------------------|--|------------|
| AQ 715 | Management and Conservation of Aquatic Resources | 24 |
| AQ 735 | Molecular Techniques and Bioinformatics | 24 |
| AQ 736 | Ocean Colour Remote Sensing | 24 |
| AQ 712 | Ecology of Fishes | 24 |
| AQ 737 | Ecological Modelling | 24 |
| AQ 738 | Ocean Biogeochemistry | 24 |
| Total number of Core Credits | | 144 |

Elective Courses: Limnology Stream

| Course Code | Course Title | Credits |
|-------------------------------------|--|------------|
| AQ 717 | Management of Small Impoundments | 24 |
| AQ 733 | Secondary Production in the Pelagic Realm | 24 |
| AQ 736 | Ocean Colour Remote Sensing | 24 |
| AQ 746 | Freshwater Policies and Management | 24 |
| AQ 732 | Marine Photosynthesis and Primary Production | 24 |
| AQ 737 | Ecological Modelling | 24 |
| AQ 745 | Tropical Wetlands Ecosystems and Management | 24 |
| Total number of Core Credits | | 168 |

YEAR 2, 3 & 4: DISSERTATION

| Course Code | Status | Credits |
|--------------------|---------------|----------------|
| AQ 799 | Core | 270 |
| AQ 775 | Elective | 24 |

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SCHOOL OF MINES AND GEOSCIENCES (SoMG)

INTRODUCTION

The School of Mines and Geosciences (SoMG) is one of the seven campus Schools of the University of Dar es Salaam (UDSM) established following the implementation of the new University's organisational structure in 2020. SoMGS evolved from the former College of Natural and Applied Sciences (CoNAS) that were established in 2009 and 2005, respectively.

SoMG comprises three teaching departments, namely:

- a) Geosciences
- b) Mining and Mineral Processing
- c) Petroleum Science Engineering

PROGRAMMES OFFERED BY THE SCHOOL

The postgraduate programmes offered by the school are under the following categories:

- a) Master of Science by coursework and dissertation
- b) Master of Science by thesis
- c) Doctor of Philosophy (PhD) by thesis

The following postgraduate programmes are offered by SoMG (Tuition fees for each programme are shown in the last two columns):

| Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|---|-----------------------------|------------------|------------|--------------------|---------------------|
| | | | | Tanzanian (TZS) | Non-Tanzanian (USD) |
| Master of Science in Petroleum Geosciences | Coursework and Dissertation | Full-time | 24 months | 4,250,000 | 8,040 |
| Master of Science in Geology | Thesis | Full-time | 24 months | 4,250,000 | 8,040 |
| Master of Science in Mining Engineering (Mineral Economics) | Coursework and Dissertation | Full-time | 18 months | 4,781,500 | 6,030 |
| Master of Science in Mining Engineering | Thesis | Full-time | 24 months | 6,375,000 | 8,040 |
| Doctor of Philosophy (PhD) in Geosciences | Thesis | Full-time | 36 months | 2,500,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Mining Engineering | Thesis | Full-time | 36 months | 2,500,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Metallurgy/Mineral Processing Engineering | Thesis | Full-time | 36 months | 2,500,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Geosciences | Thesis | Full-time | 36 months, | 2,500,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Petroleum Engineering | Thesis | Fuultime | 36 months | 2,500,000 per year | 4,020 per year |

NB: Other fees are as shown in section 1.1: UDSM fee structure. In addition to tuition fee, postgraduate students are required to have a research fund which currently is at least TZS 10,000,000 and TZS 20,000,000 for Master and PhD students respectively. In case of lab intensive research done at SoMG, 10% of this research fund shall be deposited to the corresponding account of the offering department to cater for major and centrally used consummables.

MASTER PROGRAMMES

All departments in the school offer Master degrees by thesis. In addition, the following master programmes are offered by coursework and dissertation;

MASTER OF SCIENCE IN PETROLEUM ENGINEERING

1. Entry Requirements

- i. A BSc Degree in a corresponding field of Petroleum Engineering or related Engineering field from a recognized institution with a GPA of not less than 2.7 out of 5.0.
- ii. A corresponding Postgraduate Diploma offered by UDSM or any other recognised institution with a GPA of not less than 4.0 out of 5.0. The Admission Board will also consider applicants, with any other equivalent qualifications not mentioned above, subject to the Senate approval.

2. Overall Objective

The main objective of the programme is to produce graduates with the requisite knowledge, skills and attitude to spearhead, support and sustain the development of the oil and gas industry.

3. Specific Objectives

Specific objectives are to:

- i. develop capacity of the department to run and manage petroleum programmes;
- ii. impart students with knowledge and skills in applied mathematics, science, computer-based methods, design, and engineering practice to solve petroleum engineering problems, taking into consideration the ethical, economical, social and environmental context; and
- iii. build capacity and confidence of individual student to apply acquired knowledge to conduct research on complex industrial related problems in oil and gas

Year 1

Core Course

| Course Code | Course Title | Credits | Semester |
|--------------|--|-----------|----------|
| OG 601 | Reservoir Rock and Fluid Properties | 12 | I |
| OG 630 | Directional Drilling | 12 | |
| OG 640 | Reservoir Recovery Methods | 12 | |
| ME 684 | Field Development and Operations | 10 | |
| OG 621 | Oil and Gas Production Wells | 12 | II |
| OG 631 | Pressure Control during Drilling | 12 | |
| OG 661 | Reservoir Modelling and Simulation | 12 | |
| OG 662 | Computational Methods in Petroleum Engineering | 12 | |
| Total | | 94 | |

Elective Courses (select one for each semester)

| Course Code | Course Title | Credits | Semester |
|-------------|--|---------|----------|
| OG 672 | Petroleum Management, Ethics and Political Economy | 12 | I |
| OG 674 | Petrophysics and Well Logging | 12 | |
| ME 681 | Natural Gas Technology | 12 | |
| IE 602 | Statistics and Research Methods | 10 | |
| OG 670 | Team Work Techniques | 12 | II |

| | | |
|--------|---|----|
| OG 671 | Petroleum Economics | 12 |
| OG 673 | Pollution Control in Petroleum Industry | 12 |
| OG 675 | Drilling Fluids | 12 |

Year 2

| Course Code | Course Title | Credits |
|-------------|--------------|---------|
| OG 699 | Dissertation | 60 |

4. Programme Evaluation and Examinations

The assessment of the coursework part consists of continuous assessment which carries 50% and final examination 50%. The assessment of the research part consists of examination of the dissertation by an internal examiner and external examiner. The dissertation is graded; and to pass, a student needs to score a minimum of B grade.

MASTER OF SCIENCE IN PETROLEUM GEOLOGY

1. Introduction

The programme is a 2-year post-graduate programme leading to the award of MSc in Petroleum Geology. The MSc (Petroleum Geology) programme is intended for graduate earth-scientists who want to expand the scope and depth of their knowledge base in the major areas of petroleum geosciences and exploration.

2. Objectives of the Programme

The overall objective of this programme is to enable its graduates to acquire indepth knowledge in the major areas of petroleum geosciences and exploration.

3. Entry Requirements

An applying candidate should be a holder of a first degree majoring in Geology, Petroleum Geology, Engineering Geology, or other earth-sciences related fields with an overall GPA of 2.7 and above. An applicant holding a pass degree can be admitted provided that she/he has an overall grade of B or higher in the said courses at the undergraduate level.

4. Programme Structure

This programme runs on full-time basis for a period of 2 years (4 semesters). The program requires a student to complete a minimum of 120 credits of coursework from prescribed core courses and any additional one from elective courses. The coursework component is offered in the first year in two semesters, followed by a dissertation work (60 credits) in the second year of study.

5. List of Courses

Year 1

Core Course

| Course Code | Course Title | Credits | Semester |
|-------------|--|-----------|----------|
| GY 600 | Advanced Petroleum Geology | 12 | I |
| GY 601 | Rock Properties, Petrophysics and Welllog Analysis | 12 | |
| GY 602 | Stratigraphy and Sedimentology | 12 | |
| GY 603 | Seismic data Acquisition and Processing | 12 | |
| GY 606 | Petroleum Basin Analysis | 12 | II |
| GY 607 | Seismic data Interpretation | 12 | |
| GY 608 | Scientific Writing | 12 | |
| GY 609 | Petroleum Structural Geology | 12 | |
| | Total | 96 | |

Elective Courses

| Course Code | Course Title | Credits | Semester |
|-------------|--|---------|----------|
| GY 604 | Gravity, Magnetic and Remote Sensing Methods | 12 | I |
| GY 605 | Petroleum Geochemistry | 12 | |
| IEM 601 | Environmental pollution prevention and control | 12 | |
| GY 610 | Petroleum Production | 12 | II |
| GY 611 | Palaeontology and Palynology | 12 | |
| GY 612 | Reservoir Diagenesis and Quality | 12 | |

Year 2

| Course Code | Course Title | Credits |
|-------------|--------------|---------|
| GY 699 | Dissertation | 60 |

6. Programme Evaluation and Examinations

The assessment of the coursework part consists of continuous assessment which carries 50% and final examination 50%. To pass the coursework, a student must score a minimum of B grade in each course. The assessment of the research part consists of examination of the dissertation by an internal examiner and external examiner. The dissertation is graded; and to pass, a student needs to score a minimum of B grade.

MASTER OF SCIENCE IN MINING ENGINEERING (Mineral Economics)

1. Entry Requirements

- Bachelor of Science Degree in the field of Mining Engineering from a recognised institution with GPA of not less than 2.7 out of 5;
- A corresponding Postgraduate Diploma offered by College of Engineering and Technology, UDSM or any other recognised institution with GPA of not less than 4.0 out of 5.0;
- The Admission Board will also consider applicants, with any other equivalent qualifications not mentioned above, subject to the Senate approval.

2. Objectives of the Programme

i. Overall Objective

The main objective of the programme is to produce graduates with the requisite knowledge, skills and attitude to spearhead, support and sustain the development of the mining industry specifically at all aspects of mining and mineral economics at advanced academic level (TCU level 9).

ii. Specific Objectives

Specific objectives are to:

- strengthen capacity of the department to run and manage mining engineering programme;
- impart high level of knowledge, skills and attitudes to students in mining engineering/mineral economics and related disciplines that address the needs of the development of mining operations for sustainability of the mining industry;
- elevate the knowledgeable expertise of students to become proficient in advanced techniques for managing and solving surface and underground mining investments and mining industrial issues in the most cost-effective way that ensure maximum returns to the society in the sustainable manner; and
- appraise the knowledge and understanding of practicing mining engineers, managers and related disciplines in solving mining related issues in the midst of uncertainties on the price of commodities, grades and recoveries.

Course Matrix for MSc Mining Engineering (Mineral Economics)

3. List of Courses

| YEAR 1 – SEMESTER 1 | | | YEAR 1 – SEMESTER 2 | | |
|---------------------|---|---------|---------------------|---|---------|
| Core Courses | | | Core Courses | | |
| Course Code | Course Title | Credits | Code | Course Title | Credits |
| MN 621 | Surface Mining Systems | 12 | MN 682 | Cost Management for Mining Systems | 12 |
| MN 622 | Underground Mining Systems | 12 | MN 683 | Mineral Project Evaluations | 12 |
| IE 602 | Statistics and Research Methods | 12 | MN 623 | Mine Geotechnical Engineering | 12 |
| MN 681 | Mineral Resource Economics | 12 | MK 608 | International Marketing | 12 |
| | Elective Courses (Select one) | | | Elective Courses (Select one) | |
| MN 670 | Occupational Health and Safety in Mining Industry | 12 | MN 671 | Environmental and Social Management Systems | 12 |
| OL 604 | Good Governance in Oil and Minerals | 15 | MG 623 | Project Management | 12 |
| EC 639 | Petroleum Economics | 12 | MP 677 | Advanced Mineral Processing | 12 |
| EC 650 | Environmental Economics I | 12 | EC 676 | Econometric Theory and Practice I | 12 |
| MN 675 | Mine Finance and Investments | 12 | | | |
| YEAR 2 – SEMESTER 1 | | | | | |
| MN 699 | Dissertation | 60 | | | |

4. Programme Evaluation and Examinations

The programme assessment will be based on the combination of continuous assessment (coursework) and final examination. The coursework is set to have 40% and the final written examination carries 60%. The dissertation shall be assessed by one or more external examiners and one or more internal examiners. It will be marked out of 100%. Upon successful accomplishments of all programme components the University of Dar es Salaam will award MSc degree certificate and an academic transcript.

MASTER PROGRAMMES BY THESIS

1. Introduction

SoMG offers a Master of Science by thesis in all major fields of specialization which are:

- MSc (Geology)
- MSc (Petroleum Science and Engineering)
- MSc (Mineral Economics)
- MSc (Metallurgy)
- MSc (Mineral Processing)

2. Entry Requirements

The minimum qualification for admission to the programme is an upper second-class Bachelor of Science degree in respective Science field from the University of Dar es Salaam or another recognized institution.

3. Programme Structure

The registration period for the programme shall normally be 24 months for full-time students up to 48 months for part-time students. Registration for the programme shall be at the beginning of either semester I or II during the Academic Year. The registration shall be renewed annually. Further guidelines are as contained in the UDSM Postgraduate Guidelines.

4. Programme Evaluation and Examinations

MSc programmes by thesis are run for a period not less than two years, on a full-time basis. They are based on research only. The research part consists of proposal writing and thesis. The thesis is examined by external and internal examiners. To pass the candidate must score a minimum of grade B from the examiners. In addition, for a candidate to graduate from such programme he/she must pass the *viva voce* examination with grade not below grade B.

DOCTOR OF PHILOSOPHY (PhD) PROGRAMMES

All departments offer PhD programmes by Thesis.

DOCTOR OF PHILOSOPHY (PhD) BY THESIS

1. Introduction

SoMG offers Doctor of Philosophy degree in all the major fields of science specialization.

2. Entry Requirements

A candidate for admission to the PhD degree programme must hold a relevant Masters degree of the University of Dar es Salaam or any other recognized institution. Candidates who possess a relevant First Class in Bachelor of Science may be considered for PhD registration after initially registering for the Master degree (thesis), and demonstrating outstanding performance after doing postgraduate training for at least one year, upon recommendations of the HDC and authorization by the Senate.

3. Programme Structure

The programme involves a minimum of three years for full-time candidates, or five years for part-time registered candidates. Further guidelines are as contained in the UDSM Postgraduate Guidelines. The general University regulations for postgraduate studies and specifically for PhD studies govern the conduct of studies in the school.

4. Programme Evaluation and Examinations

PhD programmes by thesis are run for a period not less than three years, on a full-time basis. They are based on research only. The research part consists of proposal writing and thesis. The thesis is examined by external and internal examiners. To pass, the candidate must score a minimum of grade B from the examiners. In addition, for a candidate to graduate from such programme he/she must pass the *viva voce* examination with not less than grade B.

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H. T. H. Kimweri, BSc (Dar), MSc (Ottawa), PhD (British Columbia)

S. J. E. Maronga, BSc (Dar), MSc (Texas A&M), PhD (Stockholm)

Lecturers

A. J. Salama, BSc (Dar), MScEng (Paris School of Mining), PhD (Lulea)

A. W. Wikedzi, BSc (Dar), MSc (Lulea), PhD (Freiberg)

K. R. Baruti, BSc (Zambia), MSc (Australia), PhD (Dar)

***M. D. Budeba, BSc (Dar), MSc (Witswatersrand), PhD (Pretoria)

R. J. Katemi, BSc, MSc (Dar), PhD (Bremen)

***S. J. Mafwenga, BSc (Zambia) MSc (South Illinois), PhD (Dar)

K. Lupogo, BSc (Dar), MSc (Delft), PhD (SFU)

Assistant Lecturers

*M. S. Dotto, BSc (Dar), MSc (Edmonton)

*B. F. Giyani, BSc (Dar), MSc (UBC)

F. M. Ngoroma, BSc (Dar), MSc (UCT)

G. W. Mwaselela, BSc (Dar), MSc (Exeter)

*G. W. Kilasa, BSc (Dar), MSc (UBC)

K. K. Izina, BSc (Dar), MSc (Laurentian)

*P. S. Kaheshi, BSc (Dar), MSc (Exeter)

Tutorial Assistant

M. B. Luc, BSc (Dar)

D. S. Kalitenge, BSc (Dar)

N. M. Nyahili, BSc (Dar)

Laboratory Engineer I

S. S. Nzogera, BSc (Dar)

*S. Mtigile, BSc (Dar)

Laboratory Engineer II

S. D. Ikomeja, BSc (Dar)

Department of Petroleum Science and Engineering (PSE)

Lecturer and Head

D. R. Mfanga, BSc (Dar), MSc (Laurentian), PhD (Aberdeen)

Associate Professors

E. I. Mbede, BSc (Dar), MSc (London), Dr. rer. nat. (Berlin)

Lecturers

D. R. Mfanga, BSc (Dar), MSc (Laurentian), PhD (Aberdeen)

J. J. Saroni, BSc, MSc (Dar), PhD (Aberdeen)

E. B. Kiswaka, BSc (Dar), MSc, PhD (NTNU)

O. J. Mkinga, BSc (Dar), MSc (NTNU), PhD (NTNU)

Assistant Lecturers

*A. M. Sykilili, BSc (Dar), MSc (NTNU)

*F. W. Andalu, BSc (Dar), MSc (NTNU)

R. M. Mworio, BSc (Dar), MSc (NTNU)

N. B. Mjami, BSc (Dar), MSc (Aberdeen)

A. B. Mkilindi, BSc (Dar), MSc (NTNU)

F. S. Kaborogo, BSc (Dar), MSc (NTNU)

A. N. Rweyemamu, BSc (Dar), MSc (NTNU)

E. Malisa, BSc (Dar), MSc (Aberdeen)

A. Maswi, BSc (Dar), MSc (NTNU)

*J. W. Gama, BSc (Dar), MSc (IFP School)

*E. S. Mulaya, BSc (Dar), MSc (NTNU)

F. R. Mkuyi, BSc (Dar), MSc (NTNU)

Laboratory Engineer II

G. Nsemwa, BSc (Dar), MSc (NTNU)

Laboratory Technician II

A. M. Kibegwa, Dip (Arusha)

* On Study Leave

**On Sabbatical Leave

***On Leave of Absence/Secondment

INTRODUCTION

The School of Economics has the requisite facilities in its teaching departments to enable students to undertake advanced works and researches for the MA and PhD degrees. The teaching staff provide supervision and guidance on research works required for the graduate degrees.

1. Purpose and Scope

The School of Economics offers postgraduate courses in economics that are aimed at developing the careers of the graduates, and enables them to pursue their various interests, be it in public or private sector employment, self employment, research or consultancy.

2. Aims and Objectives

The aims and objectives of the postgraduate programme are to:

- i. extend the existing generalized undergraduate studies by offering specialized teaching and instruction at an advanced level to meet Tanzania's immediate professional needs;
- ii. create awareness of the problems of society development and a personal commitment to social reconstruction in Tanzania;
- iii. encourage an interdisciplinary approach and joint research among all the University's social sciences departments; and
- iv. generate teaching and research materials with direct relevance to contemporary policy issues in Tanzania.

3. Duration of the Programmes

The Masters of Arts in Economics (MAE) by course work and dissertation and the Masters of Arts in Applied Economics (MAAE), also by course work and dissertation, both last for 18 months. The Masters of Arts in Economics by thesis lasts for 24 months. The PhD by course work and dissertation lasts for 48 months, while the one by thesis lasts for 60 months.

4. Course Structure

The structure of the postgraduate programmes that include course work and dissertation writing consists of core courses, which are compulsory, and electives, which students choose depending on the specialization that they wish to have to suit their intended occupation.

5. Eligibility for Admission into the Postgraduate Programmes

To be eligible for admission, the candidate must fulfill the following conditions:

- i. A good Bachelor degree with a minimum GPA of 2.7;
- ii. Adequate background in economics;
- iii. Positive recommendations from the minimum of two referees.

6. Teaching

The 18-month programme consists of nine months of instruction, followed by nine months of dissertation writing. The instructional period is divided into two semesters, consisting of 15 teaching weeks and 2 weeks for semester examinations.

The taught PhD programmes consist of 18 months of instruction, followed by 6 months of comprehensive examinations and 24 months of research and dissertation writing.

7. Programme Evaluation and Examinations

i. Coursework Assessment

Course assessment ordinarily accounts for 50% of the final marks in each course. Coursework marks include semester tests and assignments.

ii. Final Examinations

All courses are examined separately at the end of each semester. The final grade at the end of the academic year is computed from examination and coursework grades from both semesters.

8. Failures

No candidate shall be allowed to repeat the course. A candidate failing not more than 4 units may be allowed to sit for supplementary examinations under conditions to be approved by the School Board.

9. Allocation of Courses

The duration of postgraduate courses is divided to give approximately half the time to the required core courses and half the time to elective courses that students select based on the specialization that they intend to pursue.

10. Dissertation

After completion of core courses and electives courses, the rest of the period is devoted to the completion of Master and PhD dissertations. The MA or PhD degree is not conferred until the dissertation is satisfactorily completed.

11. Coordinator of Postgraduate Studies

The School of Economics has a coordinator for postgraduate studies

PROGRAMMES OFFERED BY THE SCHOOL OF ECONOMICS

| Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|---|-----------------------------|------------------|-----------|--------------------|---------------------|
| | | | | Tanzanian (TZS) | Non Tanzanian (USD) |
| Doctor of Philosophy (PhD) in Economics | Coursework and Dissertation | Full-time | 48 months | 3,000,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Economics | Thesis | Full-time | 36 months | 3,000,000 per year | 4,020 per year |
| Doctor of Philosophy (PhD) in Economics | Thesis | Part-time | 60 months | 3,000,000 per year | 4,020 per year |
| Master of Arts in Economics | Coursework and Dissertation | Full-time | 18 months | 5,000,000 | 6,030 |
| Master of Arts in Economics | Thesis | Full-time | 24 months | 6,500,000 | 8,040 |
| Master of Arts in Applied Economics | Coursework and Dissertation | Evening | 24 months | 7,500,000 | 8,040 |

PROGRAMMES OFFERED BY THE SCHOOL

With sufficiently qualified staff, the School of Economics ensures that the core courses in economics are well taught, as well as offering a wide range of elective courses. The School is also strong in research and policy analysis that feeds into public service through various research and consultancies undertaken by its staff.

The School of Economics offers two Master programmes, namely, Master of Arts in Economics (MAE), and Master of Arts in Applied Economics (MAAE). The Department also offers a PhD programme by coursework and dissertation, and PhD by thesis. These programmes are listed as follows:

- i. Master of Arts in Economics (MAE)
- ii. Master of Arts in Applied Economics (MAAE)

- iii. PhD in Economics by coursework and dissertation
- iv. PhD in Economics by thesis

MASTER PROGRAMMES OFFERED BY THE SCHOOL
MASTER OF ARTS IN ECONOMICS

1. Introduction

The MAE programme provides a strong base for research and academic purposes, and it is a regular programme that is delivered in collaboration with the African Economic Research Consortium (AERC) under the Collaborative Masters Programme (CMAP).

2. Target Group

The programme targets graduates with good quantitative skills who aspire to build a career in economic analysis and management.

3. Structure of the Programme

The programme is tenable in 18 months, and it covers a total of 6 core courses and 4 elective courses with 16 credits each. At the end of the coursework, students write a dissertation of 80 credits. Therefore, a total number of 240 credits has to be covered to complete this programme.

4. List of Courses

Core Courses

Year 1: Semester I

| Course Code | Course Title | Credits |
|--------------|----------------------------|-----------|
| EC 660 | Advanced Microeconomics | 16 |
| EC 662 | Mathematics for Economists | 16 |
| EC 664 | Policy Analysis | 16 |
| Total | | 48 |

Semester II

| Course Code | Course Title | Credits |
|--------------|---------------------------------------|-----------|
| EC 661 | Advanced Macroeconomics | 16 |
| EC 663 | Statistical Analysis and Econometrics | 16 |
| EC 665 | Policy Management | 16 |
| Total | | 48 |

Year 2

Elective Courses

| Course Code | Course Title | Credits |
|-------------|-------------------------------------|---------|
| EC 666 | Monetary Theory and Practice I | 16 |
| EC 667 | Monetary Theory and Practice II | 16 |
| EC 668 | Public Finance I | 16 |
| EC 669 | Public Finance II | 16 |
| EC 670 | Agricultural Economics I | 16 |
| EC 671 | Agricultural Economics II | 16 |
| EC 672 | Industrial Economics I | 16 |
| EC 673 | Industrial Economics II | 16 |
| EC 674 | Labour Economics I | 16 |
| EC 675 | Labour Economics II | 16 |
| EC 776 | Econometrics Theory and Practice I | 16 |
| EC 677 | Econometrics Theory and Practice II | 16 |
| EC 678 | International Economics I | 16 |
| EC 679 | International Economics II | 16 |
| EC 680 | Corporate Finance and Investment I | 16 |
| EC 681 | Corporate Finance and Investment II | 16 |
| EC 682 | Natural Resources Economics I | 16 |

| | | |
|----------------------|--------------------------------|------------|
| EC 683 | Natural Resources Economics II | 16 |
| EC 684 | Environmental Economics I | 16 |
| EC 685 | Environmental Economics II | 16 |
| EC 686 | Managerial Economics I | 16 |
| EC 687 | Managerial Economics II | 16 |
| EC 688 | Health Economics I | 16 |
| EC 689 | Health Economics II | 16 |
| Electives | | 64 |
| EC 699 | Dissertation | 80 |
| Overall Total | | 240 |

MASTER OF ARTS IN APPLIED ECONOMICS

1. Introduction

The public and private sectors need training programmes that produce applied economists and policy analysts who are well skilled in evidence-based analyses. These are professionals who can undertake applied economic research, and scientifically analyse economic data to inform policy making in different dimensions. The MA in Applied Economics programme provides this training need in the labour market, especially in the developing world to inform decision making in addressing the development challenges.

2. Target Group

The programme targets practitioners and policymakers aspiring to enhance their knowledge in applied economic research and scientific analysis of economic data to inform policy.

3. Structure of the Programme

A total number of 228 credits have to be covered to complete this programme. At the end of the coursework, students write a dissertation of 48 credits. The following courses are offered in this programme:

4. List of Courses

Year 1

Core Courses

Semester I

| Course Code | Course Title | Credits |
|--------------|------------------------|-----------|
| EC 659 | Applied Microeconomics | 12 |
| EC 658 | Applied Macroeconomics | 12 |
| EC 657 | Quantitative Economics | 12 |
| Total | | 36 |

Semester II

| Course Code | Course Title | Credits |
|--------------|---|-----------|
| EC 638 | Development Economics I | 12 |
| EC 637 | Economic Management, Planning and Policy Analysis I | 12 |
| EC 676 | Econometrics Theory and Practice I | 12 |
| Total | | 36 |

Elective Courses

Semester I

| Code | Course Title | Credits |
|--------------|--------------------------------------|-----------|
| EC 654 | Applied Labour Economics I | 12 |
| EC 650 | Environmental Economics I | 12 |
| EC 646 | Managerial Economics I | 12 |
| EC 641 | Economics of Banking and Insurance I | 12 |
| EC 634 | International Economics I | 12 |
| EC 631 | Transport Economics I | 12 |
| Total | | 24 |

Semester II

| Course Code | Course Title | Credits |
|--------------|---|-----------|
| EC 653 | Applied Labour Economics II | 12 |
| EC 652 | Applied Financial Economics II | 12 |
| EC 649 | Environmental Economics II | 12 |
| EC 648 | Energy Economics II | 12 |
| EC 645 | Managerial Economics II | 12 |
| EC 643 | Economics of Regulation and Competition Policy II | 12 |
| EC 640 | Economics of Banking and Insurance II | 12 |
| EC 635 | International Economics II | 12 |
| EC 632 | Transport Economics II | 12 |
| Total | | 24 |

*Core Courses***Year 2: Semester II**

| Course Code | Course Title | Credits |
|--------------|--|-----------|
| EC 677 | Econometrics Theory and Practice II | 12 |
| EC 636 | Economic Management, Planning and Policy Analysis II | 12 |
| EC 656 | Economic Research and Data Analysis | 12 |
| Total | | 36 |

*Elective Courses***Semester I**

| Course Code | Course Title | Credits |
|--------------|---|-----------|
| EC 651 | Applied Financial Economics II | 12 |
| EC 647 | Energy Economics II | 12 |
| EC 644 | Economics of Real Estates, Urbanization and Informality | 12 |
| EC 642 | Economics of Regulation and Competition Policy II | 12 |
| EC 639 | Petroleum Economics | 12 |
| EC 633 | Mineral Economics | 12 |
| EC 666 | Monetary Theory and Practice I | 12 |
| EC 668 | Public Finance I | 12 |
| EC 688 | Health Economics I | 12 |
| Total | | 24 |

Semester II

| Course Code | Course Title | Credits |
|----------------------|--------------|------------|
| EC 699 | Dissertation | 48 |
| Overall Total | | 228 |

PhD PROGRAMMES OFFERED BY THE SCHOOL**1. Introduction**

The School offers a PhD programme by thesis as well as by coursework and dissertation. The PhD (by coursework and dissertation) is a four-year programme that is organized in collaboration with a number of Sub-Saharan African Universities under the support of the African Economic Research Consortium (AERC). The host universities that offer core courses for this programme are four (4), and these include: University of Dar es salaam, University of Cape Town, University of Ibadan, and University of Yaoundé II.

2. Target Group

The programme targets graduates aspiring to develop profound skills in research, decision-making, planning and resource exploitation and management.

3. Structure of the Programme

Students are required to take six core courses of 16 credits each and 4 elective courses of 16 credit each. After the taught courses, students are required to write a dissertation which counts for 160 credits. This means a total number of 320 credits have to be covered to complete this programme. The offered courses are as follows:

4. List of Courses

Year 1: Semester I (12 Units)

| Course Code | Course Title | Credits |
|--------------|------------------------|-----------|
| EC 701 | Microeconomics I | 16 |
| EC 703 | Macroeconomics I | 16 |
| EC 705 | Quantitative Methods I | 16 |
| Total | | 48 |

Semester II (12 Units)

| Course Code | Course Title | Credits |
|--------------|-------------------------|-----------|
| EC 702 | Microeconomics II | 16 |
| EC 704 | Macroeconomics II | 16 |
| EC 706 | Quantitative Methods II | 16 |
| Total | | 48 |

Year 2

Elective Courses (16 Units)

| Course Code | Course Title | Credits |
|--------------|----------------------------|-----------|
| EC 711 | Agricultural Economics I | 16 |
| EC 712 | Agricultural Economics II | 16 |
| EC 713 | Industrial Economics I | 16 |
| EC 714 | Industrial Economics II | 16 |
| EC 715 | Labour Economics I | 16 |
| EC 716 | Labour Economics II | 16 |
| EC 717 | Health Economics I | 16 |
| EC 718 | Health Economics II | 16 |
| EC 719 | Environmental Economics I | 16 |
| EC 720 | Environmental Economics II | 16 |
| EC 721 | Monetary Economics I | 16 |
| EC 722 | Monetary Economics II | 16 |
| EC 723 | Public Sector Economics I | 16 |
| EC 724 | Public Sector Economics II | 16 |
| EC 725 | International Economics I | 16 |
| EC 726 | International Economics II | 16 |
| EC 727 | Development Economics I | 16 |
| EC 728 | Development Economics II | 16 |
| EC 729 | Econometrics I | 16 |
| EC 730 | Econometrics II | 16 |
| EC 731 | Financial Economics I | 16 |
| EC 732 | Financial Economics II | 16 |
| Total | | 64 |

| Course Code | Course Title | Credits |
|----------------------|--------------|------------|
| EC 799 | Dissertation | 160 |
| Overall Total | | 320 |

UDSoE STAFF LIST

Senior Lecturer and Acting Dean

B. K. Mkenda, BA (Zambia), MA & MPhil (Sussex), PhD (Gothenburg)

Associate Professors

R. B. Lokina, BA, MA (Dar), PhD (Gothenburg)

L. Rutasitara, BA, MA, PhD (Dar)

**G. Kahyarara, BA, MA (Dar), Cert (Gothenburg), MPhil, PhD (Oxford)

Senior Lecturers

N. Mwamba, BA, MA (Dar), PhD (Nottingham)

H. H. Mwinyimvua, BA, MA, PhD (Dar)

**J. K. Mduma, BA, MA (Dar), PhD (Bonn)

B. K. Mkenda, BA (Zambia), MA & MPhil (Sussex), PhD (Gothenburg)

J. Aikaeli, BA, MA, PhD (Dar)

V. Leyaro, BA, MA (Dar), PhD (Nottingham)

E. G. Luvanda, BA, MA, PhD (Dar)

I. Karamagi, BA, MA (Dar), PhD (Alberta)

Lecturers

O. Selejio, BSc, MSc (Morogoro)

K. Mdadila, BA, MA (Dar), PhD (Dublin)

J. Silas, BA, MA (Dar), PhD (Dublin)

E. Maliti, BA (Dar), MA (Leeds), PhD (Siena)

S. L. Kirama, Cert (Ntungamo Seminary), BA, MA, PhD (Dar)

O. Osoro, BA, MA (Gaborone), PhD (Dar)

W. Ngasamiaku, BA, MA, PhD (Dar)

J. Mtui, BA, MA, PhD (Dar)

R. Ruhinduka, BA, MA (Dar), PhD (Gothenburg)

G. Kibira, BA, MA (Dar), PhD (Cape Town)

E. Kisanga, BA, MA, PhD (Dar)

I. Pantaleo, BA, MA, PhD (Dar)

M. Chegere, BA, MA, (Dar), PhD (Gothenburg)

Assistant Lecturers

R. S. Taylor BA, MA (Dar), PhD (Beijing)

V. L. Mughwai, BA (USA), MA (USA) PhD (Beijing)

G. P. Lesseri, BA, MA (Dar)

S. Nombo, BA, MSc (SUA)

L. B. Mpombo, BA, MA (Dar)

L. Mimbi, B. A. (Dar)

*J. J. Hongoli, BA, MA (Dar)

*J. J. Tibanywana, BA, MA (Dar)

*E. L. Mtenga, BA (Dar)

*W. C. Muangi, BA, MA (Dar)

* On Study Leave

**On Sabbatical Leave

***On Leave of Absence/Secondment

INSTITUTE OF DEVELOPMENT STUDIES (IDS)

INTRODUCTION

Being one of the units within the University of Dar es Salaam, the Institute of Development Studies (IDS) is the largest and oldest development studies institute in Tanzania. We believe passionately that cutting-edge research, knowledge and mutual learning are crucial in shaping the transformations needed to reduce inequalities, accelerate sustainability and build more inclusive and secure societies. We are committed to collaborating closely with local civil society, governments, international NGOs, citizens, donors, researchers and many others to realise this positive change.

IDS has been working with partners to tackle complex development challenges in this way since 1973. We offer a range of thematically and approach-focused professional development courses. We aim to strengthen the skills and capabilities of those already working within the development sector, as well as nurture a new generation of development thought, policy and practice leaders.

PROGRAMMES OFFERED BY THE UNIT

The MA programmes by coursework are offered for eighteen (18) months; twelve months for coursework and six months for dissertation. The coursework comprises a minimum of 120 credits from both core and elective courses. Moreover, the dissertation consists of 60 credits. Candidates are required to successfully complete the course work phase before they are allowed to continue with the dissertation phase. The PhD Programme is offered on a thesis mode either through a 36-month full-time track or a 60 months part-time track.

List of Programme Offered by the Unit

| S/N | Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|-----|---|-----------------------------|------------------|-----------|--------------------|---------------------|
| | | | | | Tanzanian (TZS.) | Non-Tanzanian (USD) |
| 1 | Master of Arts in Development Studies | Coursework and Dissertation | Full-time | 18 months | 4,500,000 | 6,030 |
| 2 | Master of Arts in Development Management | Coursework and Dissertation | Full-time | 18 months | 4,500,000 | 6,030 |
| 3 | Master of Arts in Gender Studies | Coursework and Dissertation | Full-time | 18 months | 4,500,000 | 6,030 |
| 4 | Master of Arts in Development Studies | Thesis | Full-time | 24 months | 4,500,000 | 8,040 |
| 5 | Doctor of Philosophy (PhD) in Development Studies | Thesis | Full-time | 36 months | 4,000,000 per year | 4,020 per year |
| 6 | Doctor of Philosophy (PhD) in Development Studies | Thesis | Part-time | 60 months | 4,000,000 per year | 4,020 per year |

MASTER PROGRAMMES OFFERED BY THE UNIT MASTER OF ARTS IN DEVELOPMENT STUDIES

1. Introduction

The Institute of Development Studies has, for the past forty years, been offering a Master Degree in Development Studies. This programme provides an in-depth understanding of development process including various theories, practice as well as global and national policies. In recent years there has been a growing demand for the degree programme as it provides specialised knowledge and skills to analyse development processes. This review is intended to strengthen the programme in comparison with what is offered across the global, within the context Africa and Tanzania in particular.

2. Objective of the Programme

Development Studies is guided by political economic approach. The objectives include critical analysis of the role and efficacy of state policies and intervention of other social actors in addressing development challenges.

3. Entry Requirements

A candidate shall be deemed eligible for consideration for admission into a Master degree in Development Studies if he/she holds the following qualifications:

- i. At least a second-class degree of the University of Dar es Salaam or an equivalent degree from a recognized institution of higher learning. Candidates who hold an unclassified degree (e.g. M.D.) should have at least B grade average in Development Studies.
- ii. Candidates with a pass degree may also be considered for admission if:
 - a) their undergraduate performance in the proposed subject of study was B grade or higher; or
 - b) they have satisfied the Institute of Development Studies with their academic potential through subsequent research experience and /or additional training.
- iii. Candidates with a coursework average of B+ or higher in specified Postgraduate Diplomas may upgrade to registration for a dissertation leading to a relevant Master degree.

4. Programme Structure

The programme is offered on a full-time basis, covering a duration of 18 Months. It is delivered through a face-to-face mode, with a combination of lectures, seminars, self-study and assessments. In addition, students will do a research and finally write a dissertation.

5. List of Courses

The following core and elective courses are offered for the MA Development Studies in the two semesters:

Semester I

| Course Code | Course Title | Status | Credits |
|--------------------|--|---------------|----------------|
| DS 622 | Development Theory | Core | 12 |
| DS 661 | Political Thought for Development | Core | 12 |
| DS 690 | Research Methodology I | Core | 12 |
| DS 646 | Environment and Development | Elective | 12 |
| DS 647 | Science and Technology for Development | Elective | 12 |
| DS 648 | Population and Development | Elective | 12 |

Semester II

| Course Code | Course Title | Status | Credits |
|--------------------|----------------------------|---------------|----------------|
| DS 629 | Political Economy | Core | 12 |
| DS 663 | Governance and Development | Core | 12 |
| DS 691 | Research Methodology II | Core | 12 |

| | | | |
|---------------|---|-------------|-----------|
| DS 626 | Rural and Urban Development | Elective | 12 |
| DS 627 | Health and Development | Elective | 12 |
| DS 649 | Globalization and Development | Elective | 12 |
| DS 656 | Industrialization and Development | Elective | 12 |
| PS 733 | Conflict Management in Africa (from Political Science Department) | Elective | 12 |
| PS 730 | Conflict Resolution and Peace Studies (from Political Science Department) | Elective | 12 |
| DS 699 | Dissertation | Core | 60 |

6. Programme Assessment Strategy

Course assessment will follow the University of Dar es Salaam postgraduate examination regulations. Continuous Assessment (or Course work) will carry 50% and the final examination at the end of the semester will take 50%.

MASTER OF ARTS IN DEVELOPMENT MANAGEMENT

1. Introduction

The Institute of Development Studies has introduced a Master of Arts in Development Management to further the understanding of development. The programme more particularly addresses the growing international, national and local manpower needs in planning, designing, implementation, monitoring and evaluation of development plans, policies, programmes and projects. It is intended to impart knowledge and skills for translating into reality and implementing international and national policies and plans such as Tanzania's Five-Year Development Plan, and the UN Sustainable Development Goals. This Master degree provides an in-depth understanding of development process including various theories, practices as well as global and national policies.

2. Objectives of the Programme

The programme intends to ensure students are able to:

- i. analyse underdevelopment and interrogate development theories and strategies;
- ii. critically analyse the roles of market, state, civil society and governance in development;
- iii. acquire knowledge and professional skills of analysing, formulating, implementing, monitoring and evaluating development policies, plans, programmes and projects;
- iv. formulate and evaluate development projects; and
- v. conduct research and advance knowledge on challenges and prospects of socio-economic development.

3. Entry Requirements

A candidate shall be deemed eligible for consideration for admission into Master degree in Development Management if he/she holds the following qualifications:

- i. At least a second-class degree of the University of Dar es Salaam or an equivalent degree from a recognized institution of higher learning. Candidates who hold an unclassified degree (e.g. MD) should have at least a B grade average in the subject of intended Masters Study.
- ii. Candidates with pass degree may also be considered for admission if:
 - a) their undergraduate performance in the proposed subject of study was a B grade or higher; or
 - b) they have satisfied the Institute of Development Studies their academic potential through subsequent research experience and/or additional training;
- iii. Candidates with a coursework average of B+ or higher in specified Postgraduate Diplomas may upgrade to registration for a dissertation leading to a relevant Masters degree.

4. Programme Structure

The programme is offered on a full-time basis, covering a duration of 18 Months. It is delivered through a face-to-face mode, with a combination of lectures, seminars, self-study and assessments. In addition, students will do a research and finally write a dissertation.

5. List of Courses

The following core and elective courses are offered for the MA Development Management in the two semesters:

Semester I

| Course Code | Course Title | Status | Credits |
|-------------|--|----------|---------|
| DS 622 | Development Theory | Core | 12 |
| DS 661 | Political Thought for Development | Core | 12 |
| DS 690 | Research Methodology I | Core | 12 |
| DS 632 | Development Policy Analysis and Practice | Elective | 12 |
| DS 635 | State, Market and Development | Elective | 12 |
| DS 636 | Poverty Analyses for Development | Elective | 12 |

Semester II

| Course Code | Course Title | Status | Credits |
|---------------|---------------------------------------|-------------|-----------|
| DS 629 | Political Economy | Core | 12 |
| DS 663 | Governance and Development | Core | 12 |
| DS 691 | Research Methodology II | Core | 12 |
| DS 637 | Development Planning and Practice | Elective | 12 |
| DS 638 | Development Monitoring and Evaluation | Elective | 12 |
| DS 699 | Dissertation | Core | 60 |

MASTER OF ARTS IN GENDER STUDIES

1. Objective of the Programme

The main objective of the programme is to produce competent graduates in the field of Gender and Development who are capable of handling complex social, economic, political, legal and cultural issues that require gender insights and to meet up labour market needs in the country and beyond.

2. Entry Requirements

A candidate shall be deemed eligible for consideration for admission into Master degree in Gender Studies Degree Programme if he/she holds the following qualifications:

- i. At least a second-class degree of the University of Dar es Salaam or an equivalent degree from a recognized institution of higher learning.
- ii. Candidates with a pass degree may also be considered for admission if:
 - a) their undergraduate performance in the proposed subject of study was a B grade or higher; or
 - b) they have satisfied the Institute of Development Studies of their academic potential through subsequent research experience and/or additional training.
- iii. Candidates with a coursework average of B+ or higher in specified Postgraduate Diplomas may upgrade registration for a dissertation leading to an MA Gender Studies

3. Programme Structure

The programme is offered on a full-time basis, covering a duration of 18 Months. It is delivered through a face-to-face mode, with a combination of lectures, seminars, self-study and assessments. In addition, students will do a research and finally write a dissertation.

4. List of Courses

The following courses are offered for the MA Gender Studies in the first and second semesters.

Semester I

Core Courses

| Course Code | Course Title | Status | Credits |
|-------------|--|--------|---------|
| DS 622 | Development Theory | Core | 12 |
| DS 661 | Political Thought for Development | Core | 12 |
| DS 671 | Gender, Culture & Development | Core | 12 |
| DS 672 | Feminist Paradigms and Emerging Theories | Core | 12 |
| DS 690 | Research Methodology I | Core | 12 |

Semester II

| Course Code | Course Title | Status | Credits |
|---------------|---|-------------|-----------|
| DS 629 | Political Economy of Development | Core | 12 |
| DS 643 | Gender, Resource Management and Development | Core | 12 |
| DS 644 | Gender Mainstreaming and Development | Core | 12 |
| DS 663 | Governance and Development | Core | 12 |
| DS 691 | Research Methodology II | Core | 12 |
| DS 699 | Dissertation | Core | 60 |

Elective Courses

| Course Code | Course Title | Status | Credits |
|-------------|--|----------|---------|
| DS 632 | Development Policy Analysis and Practice | Elective | 12 |
| DS 627 | Health and Development | Elective | 12 |
| DS 670 | Gender, Governance and Development | Elective | 12 |
| DS 647 | Science and Technology for Development | Elective | 12 |
| DS 626 | Rural and Urban Development | Elective | 12 |
| DS 637 | Development Planning and Practice | Elective | 12 |
| DS 638 | Development Monitoring and Evaluation | Elective | 12 |

5. Assessment of the Programmes

Coursework assessment for each course: 50%

Final examination for each course: 50%

DOCTOR OF PHILOSOPHY (PhD) IN DEVELOPMENT STUDIES

1. Structure and Duration

The current PhD programme is based on research and writing of a thesis. This is done under close supervision and lasts for three years. Development studies being interdisciplinary, candidates can select research topics for their theses from issues of development significance especially, but not limited to, the IDS research agenda. A taught PhD programme (PhD by coursework) is being designed for coming years.

2. Assessment of the Programme

The thesis is evaluated by External and Internal Examiners and subsequently by a Viva Voce Panel. The PhD thesis is graded.

3. Assessment of the Programmes

Coursework assessment for each course: 50%

Final examination for each course: 50%

DOCTOR OF PHILOSOPHY (PhD) IN DEVELOPMENT STUDIES

1. Structure and Duration

The current PhD programme is based on research and writing of a thesis. This is done under close supervision and lasts for three years. Development studies being interdisciplinary, candidates can select research topics for their theses from issues of development significance especially, but not limited to, the IDS research agenda. A taught PhD programme (PhD by coursework) is being designed for coming years.

2. Assessment of the Programme

The thesis is evaluated by External and Internal Examiners and subsequently by a Viva Voce Panel. The PhD thesis is graded.

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Office Management Secretary I

J.R. Mduma, BA (OUT), Full Secretarial Course ISS (Tabora), Advanced Computer Course (Dar)

Office Management Secretary III

W. Ngunde, Cert (Tanga)

System Administrator

E. Haule, BSc (Dar)

Senior Office Attendant II

J. Samson, CSEE

Driver

J. Materu, Advanced Driving Grade II (NIT)

*On study Leave

INSTITUTE OF KISWAHILI STUDIES (IKS)

INTRODUCTION

The Institute of Kiswahili Studies (IKS) is unique, in that it is the oldest Kiswahili institute in the world. It was established in 1930 as the Inter-Territorial Language Committee for what was known then as the East African Dependencies. Since that time, the IKS has continued researching into and developing various aspects of Kiswahili literature, language, and culture all over the world. Through its publishing wing - TUKI, the Institute has continued publishing international academic journals with analytical and descriptive articles and critiques; examining and discussing linguistic, literary, and philosophical issues relating to Kiswahili scholarship as well as articles that analyze and discuss issues pertaining to Kiswahili culture and African oral traditions. The institute has also continued publishing creative works, Kiswahili monolingual and bilingual dictionaries, and internationally recognized books on Kiswahili linguistics and literature.

From 2009, IKS established two teaching departments: the Department of Kiswahili Literature, Communication and Publishing, and the Department of Kiswahili Language and Linguistics. In addition, IKS has four research centres dealing with research, Kiswahili language, teaching, and promotion. These are:

- a) Centre for Kiswahili for Foreigners
- b) Centre for Kiswahili Literature and African Oral and Written Traditions
- c) Centre for Terminologies, Translation, Interpreting and Language Technology
- d) Centre for Lexicography and Kiswahili Grammar

These centres make the Institute the most popular educational hub for teaching and orienting foreigners in Kiswahili language and culture.

POSTGRADUATE PROGRAMMES OFFERED BY IKS

The Institute of Kiswahili Studies offers the following postgraduate programmes:

| Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|---|-----------------------------|------------------|-----------|---|----------------|
| | | | | Tanzanian and Other African countries (TZS) | Others (USD) |
| Doctor of Philosophy (PhD) in Kiswahili | Coursework and Dissertation | Full-time | 48 Months | 1,975,500 per year | 3,075 per year |
| Doctor of Philosophy (PhD) in Kiswahili | Thesis | Full-time | 36 months | 2,650,000 per year | 3,075 per year |
| Doctor of Philosophy (PhD) in Kiswahili | Thesis | Part-time | 60 months | 2,650,000 per year | 3,075 per year |
| Master of Arts in Kiswahili | Coursework and Dissertation | Full-time | 18 months | 2,750,000 | 4,615 |
| Master of Arts in Kiswahili | Thesis | Full-time | 24 Months | 3,700,000 | 6,150 |

Objective of the Programmes

These programmes are designed to prepare experts who will teach Kiswahili courses in higher learning institutions and work in media and publishing companies, governmental institutions, international organizations, regional organizations and other related areas.

The Language of Instruction and thesis/dissertation writing will be Kiswahili.

MASTER PROGRAMMES OFFERED BY IKS MA KISWAHILI BY COURSE WORK AND DISSERTATION

1. Introduction

The coursework component shall cover two semesters that require the student's full-time attendance. The dissertation component shall cover nine months.

2. Entry Requirements/Admission Criteria

To be considered for admission to this programme, a candidate must be a holder of a degree of the University of Dar es Salaam or any other accredited University or one has to satisfy the requirements for the award of such degree.

To be admitted, candidates should have a first degree in humanities and social sciences. The minimum pass level should be a lower second class with GPA of not less than 2.8. Furthermore, candidates must have studied Kiswahili Linguistics and Kiswahili Literature in their first degree.

Once admitted, students will be placed either in Kiswahili Linguistics or Kiswahili Literature depending on their performance in undergraduate level.

3. Duration of the Programme

The MA Kiswahili by coursework and dissertation shall be completed in one and a half years.

4. Overall Programme Assessment

The overall assessment for the MA Kiswahili by coursework and dissertation will be based on the coursework, the final examination and completion of the dissertation. The degree shall not be awarded until the dissertation has been successfully completed.

5. Examination Regulations

In addition to the general University examination regulations, the following regulations shall apply to MA Kiswahili by coursework and dissertation students:

- i. All students registered for MA Kiswahili by coursework and dissertation are required to do and pass the core and elective courses of a minimum of 144 credits.
- ii. The minimum pass grade for each course including the dissertation will be a B grade. A candidate who fails to attain a GPA of 2.7 shall be discontinued from the programme.

6. Course Structure

All students registered in the MA Kiswahili by course work and dissertations who want to specialize in Kiswahili Linguistics have to study the following courses:

7. List of Courses

Core Courses

| Course Code | Course Name | Credits |
|--------------------|---------------------------------------|----------------|
| KI 601 | Fonolojia ya Kiswahili | 12 |
| KI 602 | Mofolojia ya Kiswahili | 12 |
| KI 603 | Sintaksia ya Kiswahili | 12 |
| KI 604 | Semantiki na Pragmantiki ya Kiswahili | 12 |
| KS 631 | Semina ya Uzamili | 12 |
| KS 630 | Mbinu za Utafiti | 12 |
| KS 699 | Tasnifu | 72 |

They also have to take any two courses from Kiswahili Literature. In addition, students are required to take some of the following electives from Kiswahili Linguistics:

Elective Courses

| Course Code | Course Title | Credits |
|--------------------|--|----------------|
| KI 606 | Tafsiri: Nadharia na Vitendo | 12 |
| KI 607 | Miundo Changamani ya Kiswahili | 12 |
| KI 608 | Masuala ya Kisasa katika Isimu-jamii ya Kiswahili | 12 |
| KI 609 | Historia na Lahaja za Kiswahili | 12 |
| KI 610 | Isimu-linganishi na Isimu-historia ya Lugha za Kibantu | 12 |
| KI 611 | Nadharia za Kujiifunza Lugha ya Pili | 12 |
| KI 612 | Historia ya Isimu ya Kiswahili | 12 |
| KI 613 | Isimu –tumizi ya Kiswahili | 12 |
| KI 614 | Leksikografia ya Kiswahili | 12 |
| KI 632 | Nadharia na Mbinu za Ukalimani | 12 |

All students registered in the MA Kiswahili programme who want to specialize in Kiswahili Literature have to study the following courses:

Core Courses

| Course Code | Course Title | Credits |
|--------------------|---------------------------------|----------------|
| KF 615 | Riwaya ya Kiswahili | 12 |
| KF 616 | Tamthilia ya Kiswahili | 12 |
| KF 617 | Ushairi wa Kiswahili | 12 |
| KF 618 | Mikabala ya Uhakiki wa Kifasihi | 12 |
| KS 631 | Semina ya Uzamili | 12 |
| KS 630 | Mbinu za Utafiti | 12 |
| KS 699 | Tasnifu | 72 |

They also have to take any two courses from Kiswahili Linguistics. In addition, students are required to take some of the following electives from Kiswahili Literature:

Elective Courses

| Course Code | Course Title | Credits |
|--------------------|--|----------------|
| KF 619 | Mshairi Teule | 12 |
| KF 620 | Fanani Teule | 12 |
| KF 621 | Kazi Bora za Fasihi ya Kiswahili | 12 |
| KF 622 | Wanawake katika Fasihi ya Kiswahili | 12 |
| KF 623 | Tendi Simulizi na Andishi katika Kiswahili | 12 |
| KF 624 | Ngano za Kiswahili | 12 |
| KF 625 | Fasihi ya Majaribio katika Kiswahili | 12 |
| KF 626 | Fasihi katika Tafsiri ya Kiswahili | 12 |
| KF 627 | Historia ya Taaluma ya Fasihi katika Kiswahili | 12 |
| KF 628 | Elimu-miundo ya Fasihi ya Kiswahili | 12 |
| KF 633 | Uchaphishaji katika Kiswahili | 12 |

Dissertation writing is compulsory in the second year of the programme.

MA KISWAHILI BY THESIS

The Institute of Kiswahili Studies offers MA Kiswahili by thesis to interested candidates in the field of Kiswahili. Applicants should have a GPA of 3.5 in their first degree or its equivalent and must have Kiswahili courses in their first degree. Before starting to write his/her thesis, the candidate has to present a concept paper and be allocated a supervisor. When the research proposal has been approved, the field research and writing of the thesis follows. The candidate must complete his/her thesis within two years from the date of registration. Extension may be granted due to illness and serious social problems. The candidates will be required to defend his/her thesis in an oral examination.

PhD PROGRAMMES OFFERED BY IKS

PhD IN KISWAHILI BY THESIS

1. Introduction

The Institute of Kiswahili Studies offers a PhD degree by thesis. The PhD by thesis shall be marked on Pass or Fail basis. The candidate will be required to defend his/her thesis in an oral examination (viva voce).

2. Programme Application

To apply and register for this programme a candidate is required to submit a concept paper/a research proposal in an area of his/her interest to the respective department in the Institute. The Departmental Postgraduate Committee examines the application, then it assigns a supervisor to the candidate. The candidate has also to make a presentation of his/her proposal. After an approval of the proposal by the Graduate Studies Committee, the candidate shall continue with data collection and thesis writing.

3. Eligibility for Admission

An applicant must have a Master degree in Kiswahili, Linguistics, Literature, Communication Studies or its equivalent from a recognized university.

4. Duration of the Programme

The programme lasts for three years from the date of registration for a full-time PhD in Kiswahili and six years for a part-time one. The duration can be extended due to illness or social problems. No candidate may be permitted to submit a thesis for the degree of Doctor of Philosophy in Kiswahili in less than two academic year from the date of registration unless saved with the special permission of the Senate.

PhD IN KISWAHILI BY COURSEWORK AND DISSERTATION

1. Introduction

The Institute of Kiswahili Studies also offers a PhD degree by coursework and dissertation which has a duration of four years. A candidate has to complete a total of 540 credits. In the first year, candidates attend classes and take courses with a total of 180 credits. In the first semester of the second year, candidates take a comprehensive examination and in the second semester they write a research proposal and collect data. The last two years candidates write the dissertation. The dissertation has a total of 360 credits. The candidate will be required to defend his/her thesis in an oral examination (viva voce). All courses are taught in Kiswahili language and dissertation will also be written in Kiswahili language.

2. List of Courses

The distribution of credits is as follows:

Year 1: Semester I

Core Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| KI 703 | Semina za Masuala Changamani katika Isimujamii | 30 |
| KI 704 | Semina za Uchambuzi wa Nadharia za Asili na Chimbuko la Kiswahili | 30 |

Elective Courses (Select one course)

| Course Code | Course Title | Credits |
|--------------------|---|----------------|
| KI 701 | Uchambuzi wa Nadharia za Sintaksia ya Kiswahili | 30 |
| KI 707 | Semina za Nadharia za Mofolojia ya Kiswahili | 30 |
| KI 710 | Falsafa ya Lugha | 30 |
| KI 711 | Lugha na Elimu | 30 |

Year 1: Semester II

Core Courses

| Course Code | Course Title | Credits |
|--------------------|---|----------------|
| KI 700 | Mbinu za Utafiti na Uchambuzi wa Data za Lugha ya | 30 |

Elective Courses (Select two courses)

| Course Code | Course Title | Credits |
|--------------------|--|----------------|
| KI 702 | Lugha na Siasa | |
| KI 704 | Semina za Nadharia za Semantiki | |
| KI 705 | Nadharia na Tafiti za sasa katika Ujifunzaji wa Kiswahili kama Lugha ya Pili | |
| KI 706 | Masuala Changamani katika Nadharia za Fonolojia | 30 |
| KI 709 | Semina za Upangaji Lugha | 30 |
| | | 30 |

| | | |
|--------|---|-----|
| | Year 2 (Semester 1) Comprehensive Exam (Semester 2) Proposal Writing | 360 |
| KI 799 | Year 3 and Year 4: Dissertation | |
| | | |

IKS STAFF LIST

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Senior Lecturer and Deputy Director

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Principal Administrative Officer

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* On study leave

INSTITUTE OF MARINE SCIENCES (IMS)

INTRODUCTION

The Institute of Marine Sciences (IMS) is located in Zanzibar at Buyu with a sub-campus at Mizingani Street. In addition, IMS has a mariculture substation/research centre located in Pangani, Tanga. The Institute comprises three academic sections, namely: Marine and Coastal Resources Management (MCRM), Marine Technology and Innovation (MTI) and Geosciences, Oceanography and Informatics (GOI). IMS has established a Mariculture Centre in Pangani, Tanga, to increase its geographical presence and extension services in areas related to best practices in finfish pond and cage farming; seaweed farming; crab fattening and pearl farming. There is a fourth, crosscutting section dealing with Information and Communication Technology (ICT). It provides GIS services, and houses the National Oceanographic Data Centre (TzNODC) as well as the Marine Education Extension Development (MEED) which is the outreach arm of the Institute.

PROGRAMMES OFFERED BY THE INSTITUTE

IMS offers five postgraduate programmes as listed below:

- i. Master of Science in Marine Sciences (MSc) by thesis only
- ii. Master of Science in Marine Sciences (MSc MASC) by coursework and dissertation
- iii. Master of Science in Sustainable Fisheries Management (MSc SUFIM) by coursework and dissertation
- iv. Doctor of Philosophy (PhD) by thesis only
- v. Doctor of Philosophy in Applied Marine Sciences - Fisheries and Mariculture (PhD AMS-FM) by coursework and dissertation

List of Programme Offered by the Unit

| S/N | Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|-----|---|-----------------------------|------------------|--------------|--------------------|---------------------|
| | | | | | Tanzanian (TZS) | Non-Tanzanian (USD) |
| 1 | Master of Science in Marine Sciences | Coursework and Dissertation | Full-time | 24 months | 4,500,000 | 4,020 |
| 2 | Master of Science in Marine Sciences | Thesis | Full-time | 24 Months | 4,500,000 | 4,020 |
| 3 | Master of Science in Sustainable Fisheries Management (MSc SUFIM) | Coursework and Dissertation | Full-time | 24 months | 4,500,000 | 4,020 |
| 4 | Doctor of Philosophy (PhD) in Marine Sciences | Thesis | Full/Part-time | 36/60 months | 2,250,000 per year | 4,020 per year |
| 5 | Doctor of Philosophy (PhD AMS-FM) in Applied Marine Sciences | Coursework and Dissertation | Full-time | 48 months | 2,250,000 per year | 4,020 per year |

MASTERS PROGRAMMES OFFERED BY IMS

A. MASTER OF SCIENCE IN MARINE SCIENCES BY COURSEWORK AND DISSERTATION

1. Introduction

The Master of Science in Marine Sciences by Coursework and Dissertation is aimed at producing marine scientists with the general understanding of oceanographic concepts with specialization in either Marine and Coastal Resources Management or Marine and Coastal Geo-informatics.

The Marine and Coastal Resources Management specialization focuses on marine resources management as well as environmental and socio-economic issues. The programme introduces remote sensing and GIS methods as analytical tools for managing the coastal and marine resources. The programme can be seen as a convergent programme in the sense that it links and collaborates with other relevant programmes and basic research and thus giving an opening for multi-disciplinary research. It is hoped that this programme, in collaboration with others, will contribute much in the offshore stock assessment that is poorly known in Tanzania. Students will also be trained to address scientific and socio-economic issues related to coastal and marine resources through an interdisciplinary education in marine science, policy, law, quantitative analysis, databases and modelling.

The Marine and Coastal Geo-informatics specialization is designed to provide an advanced education in the principles and practice of GIS and remote sensing in marine sciences. The programme comprises taught courses, covering data models and data structures, acquisition and management of data, spatial analysis and modelling, remote sensing, GIS design and implementation issues, GIS programming and customization as well as database technology. Concepts and techniques are illustrated using case study materials drawn from a variety of application areas. Practical work is undertaken using a variety of open source and free software such as BILKO, ILWIS, BEAM (and others) and commercial software such as ArcGIS and ERDAS Imagine. For the award of this Master of Science, the student must undertake an independent research project and submit as a written dissertation. The dissertation carries a weight of 60 credits.

2. Objectives of the Programme

The programme is aimed at producing marine scientists with general understanding of marine sciences with specialization in either Marine and Coastal Resources Management or Marine and Coastal Geo-informatics.

3. Entry Requirements

To be eligible for admission to the programme, the applicant should possess a Bachelor degree from any university recognized by TCU, with a background in science subjects relevant to marine sciences such as Physics, Chemistry, Biology and Geology, with an overall GPA of 2.7 (B grade) or higher. Admission may also be based on equivalent qualifications.

4. Programme Structure

All students undertaking a Master of Science in Marine Sciences by coursework and dissertation will be obliged to take four compulsory (core) courses, after which they may specialize in either Marine and Coastal Resources Management or Marine and Coastal Geo-informatics. Each MSc study programme shall start at the beginning of the academic year and ends 24 months later for full-time students and 30 months later for part-time students. Beyond these limits, the Senate approval is necessary.

5. List of Courses

| Course Code | Course Title | Credits |
|---|---|---------|
| <i>Core Courses</i> | | |
| GI 602 | Research Methodology for Marine Scientists | 8 |
| GI 614 | Remote Sensing for Marine and Coastal Environment | 8 |
| GI 612 | GIS for Marine and Coastal Environment | 8 |
| OC 610 | Applied Marine Geology | 8 |
| OC 614 | Applied Physical Oceanography | 8 |
| MR 608 | Marine Conservation Science | 8 |
| <i>Specialization Courses: Marine and Coastal Geo-informatics</i> | | |
| GI 603 | Spatial Data Management and GIS Databases | 12 |

| | | |
|--|---|----|
| GI 606 | GIS in Decision Making | 8 |
| GI 607 | Programming for GIS | 8 |
| GI 608 | Advanced Spatial Analysis and Modelling | 12 |
| OC 611 | Applied Marine Geophysics | 8 |
| GI 699 | Dissertation | 12 |
| <i>Specialization Courses: Marine and Coastal Resources Management</i> | | |
| MR 601 | Sustainable Utilization of Coastal and Marine Resources | 12 |
| MR 603 | Applied Marine and Coastal Ecology | 12 |
| MR 608 | Marine Conservation Science | 8 |
| MR 610 | Economics Valuation of Coastal and Marine Ecosystems | 12 |
| MR 699 | Dissertation | 12 |
| <i>Elective Courses</i> | | |
| GI 609 | Case Studies in Remote Sensing | 8 |
| GI 611 | Case Studies in GIS | 8 |
| MR 605 | Maritime Policy | 8 |
| MR 614 | Integrated Coastal Zone Management | 8 |
| OC 605 | Marine Pollution and Control | 8 |
| MR 616 | Environmental Assessment I | 8 |
| MR 618 | Environmental Assessment II | 8 |

6. Programme Evaluation and Examinations

The programme consists of coursework (Part I) and dissertation (Part II). A minimum of 120 credits for coursework must be completed and passed before the candidate embarks on a dissertation phase. Completing a course is defined as obtaining a B grade or higher in the examination. Candidates whose overall GPA is below 2.7 in the coursework part will be discontinued. Candidates whose overall GPA is 2.7 and above in the coursework part shall be allowed to do supplementary examination(s) in the failed courses. After the supplementary examination(s), candidates who have upgraded their GPA to 3.0 and above may be allowed to proceed with the dissertation phase if all courses have been passed.

B. MASTER OF SCIENCE IN SUSTAINABLE FISHERIES MANAGEMENT-SUFIM BY COURSEWORK AND DISSERTATION

1. Introduction

Fish and fisheries are an essential part of most communities worldwide as they make significant contributions to their protein budget, health, social and economic well-being. For example, fish provided over 4.3 billion people with about 15% of their animal protein intake in 2010. Fisheries products are used in a wide variety of ways, ranging from subsistence use to international trade where highly sought-after and highly-valued items are traded. The value of fish traded internationally is over USD 130 billion annually, employing over 58.3 million people in 2010. Employment in the fisheries sector during the past 30 years has grown faster than both the world's population and employment in agricultural sector. However, capture fisheries in Tanzania and worldwide has stagnated for over a decade, threatening livelihood and jobs for millions of people particularly from poor families. The stagnation is due to a number of factors including overharvesting, declining fisheries resources and biodiversity, climate change and non-climate induced environmental degradation. Continued contribution of the fisheries sector to global and national food security calls for a wider ecosystem stewardship and improved governance.

Issues on food insecurity include post-harvest losses. About one-third of the total world food produced (1.3 billion tonnes) for human consumption is lost annually. With regard to fisheries, post-harvest losses are contributed by unutilized captured/harvested fish (bycatch), damages and spoils that affect their nutritional value, and the price that deteriorates due to fluctuating market forces.

During 2001-2010, the average annual growth rate of fisheries subsectors in Tanzania was insignificant (around 4.7%) and the Tanzania Development Vision (TDV) 2025 intends to improve to over 10%. Factors behind the limited contribution of fisheries to the overall GDP and food security include minimal fisherfolk

participation in the fisheries value addition chain, unsustainable resource management and poor genetic potential of the local stocks for aquaculture development.

In addressing the situation, the proposed programme intends to promote and encourage, among others:

- i. livelihood/income/food production diversification into non-fishing activities e.g. mariculture and ecotourism;
- ii. reducing post-harvest losses and promoting proper processing and value-addition to marine and aquatic products for improved food security and income generation;
- iii. participatory multi-sectoral approach to fisheries co-management; and
- iv. ecosystem approach to managing fisheries in a sustainable manner.

Development of the proposed MSc in Sustainable Fisheries Management programme took into consideration the dire need of a new generation of fisheries resource managers and experts with comprehensive interdisciplinary approaches to address the increasingly complex challenges affecting fisheries sector sustainability. The programme intends to facilitate development of entrepreneurs, resource managers and academicians with a multidisciplinary outlook on sustainable fisheries management bottlenecks and measures to address them. The experts will have a multidisciplinary (ecology, biology, oceanography, economics, sociology and law) vision of fisheries resources and environment (people - fisheries stocks - habitat/ecosystem - weather/climate interactions), capable of valuating and assessing them using multiple tools (e.g. mathematical simulations, statistics, surveys) so as to propose relevant management measures for sustained habitat and ecosystem outputs of goods and services. The resource managers will be capable of understanding and accounting for the earlier shown interactions, adopting a comprehensive approach called ecosystem-based fisheries management, crucial in conserving ecosystem healthy essential to the sustainability of our fisheries, and dealing with the increasingly complex challenges facing our oceans.

2. Objectives of the Programme

The programme is aimed at: producing competent and skilled entrepreneurs, resources managers and academicians in the field of fisheries resources assessment and management with the view to fast-tracking TDV 2025; and contributing to the UDSM commitment to resolve constraints to result-delivery in growth driver sectors including fisheries. This is in view of the fact that Tanzania workforce is dominated by low skilled workers (84%), followed by medium skilled (13%) and high skilled workers are insufficient (3%). The TDV 2025 vision of Tanzania with middle-income requires improvements such that low skilled workers are reduced to at least 55%, medium skilled are improved to 33% and high skilled ones are increased to at least 12%.

3. Entry Requirements

To be eligible for admission to the programme, the applicant should possess undergraduate degree from any TCU-recognized University with background in science subjects relevant to marine sciences such as Physics, Chemistry, Biology and Geology, with an overall GPA of 2.7 (B grade) or higher. Admission may also be based on equivalent qualifications.

4. Programme Structure

The programme will be undertaken in 24 months and will comprise two parts namely, coursework and dissertation. All candidates will be required to complete a minimum of 120 credits of coursework part during the first and second semesters; 80 credits from core/compulsory courses and minimum of 40 credits from elective courses. This will be followed by a research and writing a dissertation.

5. List of Courses

| Course Code | Course Title | Credits |
|---------------------|--|---------|
| <i>Core Courses</i> | | |
| SF 601 | Marine Ecosystem and Fisheries Resources | 8 |
| SF 602 | Fish and Invertebrate Biology | 8 |
| SF 603 | Fish Population Dynamics and Fisheries Ecology | 8 |
| SF 604 | Fisheries Data Analysis and Statistics | 8 |

| | | |
|-------------------------|---|----|
| SF 605 | Fisheries Law and Policy | 8 |
| GI 602 | Research Methodology for Marine Scientists | 8 |
| SF 608 | Fish Sampling Techniques | 8 |
| SF 609 | Fish Stock Assessment | 8 |
| SF 610 | Fisheries Governance | 8 |
| SF 617 | Social Science Perspectives in Fisheries Management | 8 |
| <i>Elective Courses</i> | | |
| SF 606 | Fisheries Oceanography | 8 |
| SF 607 | Aquaculture | 8 |
| SF 611 | Ecosystem Approach to Fisheries | 8 |
| SF 615 | Biophysical interactions in the Marine Environment | 12 |
| SF 616 | Fisheries Economics | 12 |
| GI 612 | GIS for Marine and Coastal Environment | 8 |
| GI 614 | Remote Sensing for Marine and Coastal Environment | 8 |
| SF 612 | Marine Protected Areas | 8 |
| SF 613 | Fish Trading and Processing | 8 |
| SF 614 | Genetics in Fisheries and Aquaculture | 12 |
| SF 618 | Economics of Renewable Resources | 12 |
| GI 605 | GIS and Remote Sensing for Marine and Coastal Environment | 12 |
| GI 609 | Case Studies in Remote Sensing | 8 |
| GI 611 | Case Studies in GIS | 8 |
| MR 601 | Sustainable Utilisation of Coastal and Marine Resources | 12 |

6. Programme Evaluation and Examinations

The programme consists of coursework (Part I) and dissertation (Part II). A minimum of 120 credits for coursework must be completed and passed before one embarks on the dissertation phase. Completing a course is defined as obtaining a B grade or higher in the examination. Candidates whose overall GPA is below 2.7 in the course work part will be discontinued. Candidates whose overall GPA is 2.7 and above in the course work part shall be allowed to do supplementary examination(s) in the failed courses. After the supplementary examination(s), candidates who have upgraded their GPA to 3.0 and above may be allowed to proceed with the dissertation phase if all courses have been passed.

C. MASTER OF SCIENCE IN MARINE SCIENCES BY THESIS

The programme lasts for 24 months and is pursued through research followed by writing a thesis. Some coursework may be taken when directed by the Institute's Postgraduate Studies Committee (IPSC). The student should initially submit a two-page statement of the intended research topic, which will guide the Institute in assigning the supervisor. Within four months of registration, the student must develop a comprehensive and substantive research proposal to be presented to the IPSC for assessment and evaluation. Once the IPSC are satisfied with the quality of the proposed research study, a full registration of the student is granted.

PHD PROGRAMMES OFFERED BY IMS

A. PhD IN APPLIED MARINE SCIENCES - FISHERIES AND MARICULTURE (PhD AMS-FM) BY COURSEWORK AND DISSERTATION

1. Introduction

Fish and fisheries are an essential part of most communities worldwide and they make significant contributions to their protein budget, health, social and economic well-being. Fisheries products are used in a wide variety of ways, ranging from subsistence use to international trade where highly sought-after and highly-valued items are traded. The value of fish traded internationally is over USD 130 billion annually, employing over 58.3 million people in 2010. Employment in the fisheries sector during the past 30 years has grown faster than both the world's population and employment in agricultural sector. However, capture fisheries in Tanzania and worldwide has stagnated for over a decade due to a number of factors including

over-harvesting, declining fisheries resources and biodiversity, climate change and non-climate induced environmental degradation. The continued contribution of the fisheries sector to global and national food security calls for a wider ecosystem stewardship and improved governance. Growing at an average annual rate of 8.8% worldwide and 11.7% in Africa, aquaculture has greatest potential in supplementing future demands for fresh fish, eliminating hunger, promoting health and reducing poverty.

Issues on food insecurity include post-harvest losses. About one-third of the total world food produced (1.3 billion tonnes) for human consumption is lost annually. With regard to fisheries, post-harvest losses are contributed by unutilized captured/harvested fish (bycatch), damages and spoils that affect their nutritional value, and the price that deteriorates due to fluctuating market forces.

During 2001-2010, the average annual growth rate of fisheries subsectors in Tanzania was insignificant (around 4.7%) and the Tanzania Development Vision (TDV) 2025 intends to improve it to over 10%. Factors behind the limited contribution of fisheries and aquaculture activities to the overall GDP and food security include insufficient and erratic use of science and technology, minimal fisherfolk participation in the fisheries value addition chain, unsustainable resource management and poor genetic potential of the local stocks for aquaculture development.

In addressing the situation, the proposed PhD AMS-FM intends to promote and encourage, among others:

- i. Livelihood/income/food production diversification into non-fishing activities e.g. mariculture and ecotourism;
- ii. Establishment of the scientific basis for production of good quality mariculture seeds, feed and improved management;
- iii. Strengthening ecosystem-based adaptation and mitigation of climate induced episodes;
- iv. Reducing postharvest losses and promoting value-addition to marine and aquatic product;
- v. Participatory multi-sectoral approach to fisheries co-management; and
- vi. Ecosystem approach to sustainable fisheries and mariculture management.

Thus, the programme intends to facilitate development of a new generation of entrepreneurs, resource managers and academicians with a multidisciplinary outlook on fisheries and mariculture development bottlenecks and measures to address them.

2. Objectives of the Programme

The programme is aimed at producing competent and skilled fisheries and mariculture experts and professionals; and contributing to the UDSM role as a reliable national source of high calibre entrepreneurs, resources managers and academicians in fisheries and aquaculture subsectors with the view to improve their growth momentum to reach targets of the much cherished TDV 2025. This is in view of the fact that Tanzania workforce is dominated by low skilled workers (84%), followed by medium skilled (13%) and high skilled workers are insufficient (3%). The TDV 2025 of Tanzania attaining a middle-income economy requires improvements such that low skilled workers are reduced to at least 55%, medium and high skilled ones are improved to at least 33% and 12% respectively. It also aims to generate and transmit the research-based knowledge and innovation relevant to, among others, improvement of outputs from fisheries and mariculture subsectors.

3. Entry Requirements

An applicant must hold an MSc degree from any university recognized by TCU, with a background in subjects relevant to marine sciences such as fisheries, aquaculture, biology, zoology, environmental sciences, natural resource management and chemistry. Applicants with equivalent qualifications may also be considered.

4. Programme Structure

The PhD AMS-FM degree programme is designed to run for 48 months (4 years). It offers two specializations, namely mariculture development and marine fisheries management. Both specializations consist of the coursework part and dissertation part. The coursework part, which is conducted during the first year, consists of five (5) and six (6) core courses, respectively. For both specializations, three courses

will be offered during the first semester and the remaining two (2) and three (3), respectively will be offered during the second semester. In addition to the core courses, the programme consists of four (4) elective courses, and these are offered during the second semester.

5. List of Courses

| Course Code | Course Title | Credits |
|---|--|---------|
| Specialization I: Mariculture Development | | |
| <i>Core Courses</i> | | |
| OC 701 | Applied Oceanography in Fisheries and Mari- culture | 8 |
| CR 702 | Socio-economics of Marine Fisheries and Mariculture | 8 |
| OC 703 | Approaches to Scientific Investigation and Dissemination | 8 |
| MD 701 | Trends in Mariculture Production and Technology | 30 |
| MD 702 | Applied Marine Biology and Biotechnology | 30 |
| MD 799 | Dissertation | 360 |
| <i>Elective Courses</i> | | |
| CR 710 | Coastal and Marine Governance | 15 |
| MD 711 | Synergistic Aspects of Fisheries and Mariculture | 15 |
| GI 712 | Coastal and Marine GIS and Remote Sensing | 15 |
| OC 713 | Climate Change and Marine Resources Man- agement | 15 |
| Specialization II: Marine Fisheries Development | | |
| <i>Core Courses</i> | | |
| OC 701 | Applied Oceanography in Fisheries and Mari- culture | 30 |
| CR 702 | Socio-economics of Marine Fisheries and Mariculture | 30 |
| OC 703 | Approaches to Scientific Investigation and Dissemination | 30 |
| CR701 | Ecosystem Based Approach to Marine Fisheries Management | 30 |
| CR 714 | Fish Processing Technology and Post-harvest Management | 15 |
| CR 723 | Fish Biology and Taxonomy | 15 |
| CR 799 | Dissertation | 360 |
| <i>Elective Courses</i> | | |
| CR 710 | Coastal and Marine Governance | 15 |
| MD 711 | Synergistic aspects of fisheries and mariculture | 15 |
| GI 712 | Coastal and Marine GIS and Remote Sensing | 15 |
| OC 713 | Climate Change and Marine Resources Man agement | 15 |

6. Programme Evaluation and Examinations

Students must complete a minimum number of 180 credits after which they will be required to undertake a dissertation research project which is done during the second, third and fourth years. The dissertation is assigned a weight of 360 credits. Thus, the minimum number of credits needed for the students to graduate under the Doctor of Philosophy in Applied Marine Sciences by coursework and dissertation programme is 540 credits. During the coursework part of the programme, courses offered will be assessed through continuous assessment (written assignments/tests, seminar presentations, practical training) and the

University Examinations (UE). The continuous assessment will carry 40% while the UE will carry a maximum of 60%. A pass mark for each examinable course shall be 50% (B grade).

B. PhD MARINE SCIENCES BY THESIS ONLY

The duration of the programme is three years for full-time candidates and five years for part-time candidates. The student should initially submit a two-page statement of the intended research topic, which will guide the department in assigning a supervisor. After this initial process, the student is required to develop (within 6 months) a comprehensive and substantive research proposal to be presented to the IPSC for assessment and evaluation. Once the IPSC is satisfied with the quality of the proposed research study, full registration of the student is granted.

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** On Sabbatical

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INSTITUTE OF RESOURCE ASSESSMENT (IRA)

INTRODUCTION

The Institute of Resource Assessment (IRA) offers five postgraduate programmes related to natural resource assessment and management. The programmes are: MSc in Natural Resource Assessment and Management (MSc NARAM), MSc in Climate Change and Sustainable Development (MSc CC & SD), Doctor of Philosophy (PhD NARAM) by thesis, Doctor of Philosophy (PhD CC & SD) by thesis, and Doctor of Philosophy (PhD NARAM) by coursework and dissertation.

POSTGRADUATE PROGRAMMES OFFERED BY THE INSTITUTE OF RESOURCE ASSESSMENT (IRA)

Table 1: Postgraduate Programmes Offered:

| S/N | Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|-----|-----------------|-----------------------------|------------------|-----------|--------------------|---------------------|
| | | | | | Tanzanian (TZS) | Non-Tanzanian (USD) |
| 1 | MSc NARAM | Coursework and Dissertation | Full-time | 18 months | 4,500,000 | 6,030 |
| 2 | MSc NARAM | Thesis | Full-time | 24 months | 4,500,000 | 6,030 |
| 3 | MSc CC & SD | Coursework and Dissertation | Full-time | 18 months | 4,500,000 | 6,030 |
| 4 | MSc CC & SD | Thesis | Full-time | 24 months | 4,500,000 | 6,030 |
| 5 | PhD NARAM | Coursework and Dissertation | Full-time | 48 months | 2,500,000 per year | 4,020 per year |
| 6 | PhD NARAM | Thesis | Full-time | 36 months | 2,500,000 per year | 4,020 per year |
| 7 | PhD CC&SD | Coursework and Dissertation | Full-time | 36 months | 2,500,000 per year | 4,020 per year |

MASTER PROGRAMMES OFFERED BY IRA

MASTER OF SCIENCE IN NATURAL RESOURCE ASSESSMENT AND MANAGEMENT

1. Programme Structure

The entire programme which takes 18 months requires a student to acquire a minimum of 180 credits. In the first and second semesters, the student will take 6 core courses and 4 electives, selecting 2 elective courses per semester, thus a total of 120 credits. In addition, the student in the last six months will write a dissertation with 60 credits (Table 2).

2. Duration of the Programme

The programme takes 18 months.

3. Assessment of the Programme

Coursework will carry 40% while the final examination will take 60% of the total marks. A dissertation will also be graded. The General UDSM Examination Regulations for postgraduate programmes will also be applied.

4. List of Courses

Table 2: Course Distribution

| Semester I | | | |
|--|--|---------------|----------------|
| Course Code | Course Title | Status | Credits |
| RM 607 | Applied Ecology | Core | 12 |
| RM 609 | Perspectives in Natural Resources and Environmental Management | Core | 12 |
| RM 612 | Contemporary Issues in Natural Resources Management | Core | 12 |
| RM 605 | Development Planning in Natural Resources Management | Elective | 12 |
| RM 608 | Climate Change and Variability | Elective | 12 |
| CC 600 | Science of Climate Change | Elective | 12 |
| CC 602 | Vulnerability and Impacts of Climate Change | Elective | 12 |
| Semester II | | | |
| RM 606 | Tropical Ecosystems Management | Core | 12 |
| RM 610 | Integrated Research Methodologies | Core | 12 |
| RM 611 | Environmental Assessment | Core | 12 |
| RM 604 | Population, Development and Environment | Elective | 12 |
| CC 604 | ***Climate Change Governance | Elective | 12 |
| CC 605 | ***Environment, Sustainable Development and Climate Change | Elective | 12 |
| Semester III | | | |
| RM 699 | Dissertation | Core | 60 |
| <i>NB: *** Courses offered in other Academic programme</i> | | | |

MASTER OF SCIENCE IN CLIMATE CHANGE AND SUSTAINABLE DEVELOPMENT (MSc CC&SD) BY COURSEWORK AND DISSERTATION

1. Programme Structure

The MSc CC & SD is the 18-month programme. To graduate, a student will be required to acquire a minimum of 180 credits. In the first and second semesters, the student will take 6 core courses and 4 elective courses (2 elective courses per semester) providing a total of 120 credits. In the third semester, the student will write a dissertation which carries 60 credits (Table 3).

2. Entry Requirements

University of Dar es Salaam admission regulations will apply for this programme. Students seeking admission to the M.Sc. in Climate Change and Sustainable Development programme must hold an honours degree of relevant subject from the University of Dar es Salaam or an equivalent degree from TCU recognized University

3. Duration of the Programme

The programme takes 18 months.

4. Assessment of the Programme

The coursework and the final examination will take 50% each. A dissertation will also be graded. The General UDSM Examination Regulations for postgraduate programmes will also be applied.

Table 3 Course Distribution

| Semester I | | | |
|--------------------|---|---------------|----------------|
| Course Code | Course Title | Status | Credits |
| CC 600 | Science of Climate Change | Core | 12 |
| CC 602 | Vulnerability and impacts of Climate Change | Core | 12 |
| CC 603 | Response to Climate Change | Core | 12 |
| CC 606 | Ecosystems Management | Elective | 12 |
| CC 607 | Climate Change, Food and Water Security | Elective | 12 |

| Semester I | | | |
|---|---|----------|----|
| CC 609 | Climate Change and Gender | Elective | 12 |
| CC 613 | Climate Change and Engineering | Elective | 12 |
| RM 604 | *** Population, Development and Environment | Elective | 12 |
| GE 621 | *** Urban and Rural Planning | Elective | 12 |
| Semester II | | | |
| CC 601 | Research Methodology: Methods & Techniques | Core | 12 |
| CC 604 | Climate Change Governance | Core | 12 |
| CC 605 | Environment, Sustainable Development and Climate Change | Core | 12 |
| CC 608 | Infrastructure, Energy Systems and Climate Change | Elective | 12 |
| CC 610 | Communicating Climate Change | Elective | 12 |
| CC 611 | Economics of Climate Change | Elective | 12 |
| CC 614 | Climate Change and Human Security | Elective | 12 |
| CC 615 | Climate Change and Environmental Impact Assessments | Elective | 12 |
| Semester III | | | |
| CC 669 | Dissertation | Core | 60 |
| <i>NB: *** Courses offered in other Academic programmes</i> | | | |

MASTER OF SCIENCE IN NATURAL RESOURCE ASSESSMENT AND MANAGEMENT (MSc NARAM) BY THESIS

1. Introduction

M.Sc (NARAM) by thesis is offered through research followed by writing a thesis.

2. Entry Requirements

A candidate should have at least an Honours upper second degree in a relevant field.

3. Duration of the Programme

The registration period for the MSc NARAM) by thesis is 24 months

4. Assessment: The Thesis is graded

MASTER OF SCIENCE IN CLIMATE CHANGE AND SUSTAINABLE DEVELOPMENT (MSc CC&SD) BY THESIS

1. Introduction

MSc CC&SD by thesis is offered through research followed by writing a thesis.

2. Entry Requirements

A candidate should have at least an Honours upper second degree in a relevant field.

3. Duration of the Programme

The registration period for the M.Sc. (CC & SD) by Thesis is 24 months.

4. Assessment: The thesis is graded.

PhD PROGRAMMES OFFERED BY IRA

DOCTOR OF PHILOSOPHY PhD (NARAM) BY COURSEWORK AND DISSERTATION

1. Courses Structure

The entire programme requires a student to take a minimum of 600 credits (330 credits for Coursework including comprehensive examination and 270 credits for Dissertation), covering six (6) core courses which are compulsory and six (6) courses are elective. The student will also be required to write a dissertation which is regarded as a core course.

2. Entry Requirements

University of Dar es Salaam admission regulations will apply. In addition, students seeking admission for PhD NARAM must possess a relevant Master's degree from TCU recognized university.

3. Duration of the Programme

The programme takes 48 months.

4. Assessment of the Programme

The coursework and the final examination will take 50% each. A dissertation will also be graded. The General UDSM Examination Regulations for postgraduate programmes will also be applied.

Distribution of Courses and Credits

Year 1: Semester I

| Course Code | Course Title | Status | Credits |
|-------------|--|----------|---------|
| RM 700 | Applied Ecology and Ecosystem Management | Core | 24 |
| RM 701 | Natural Resources Governance | Core | 24 |
| RM 702 | Development and Natural Resource Management | Core | 24 |
| RM 706 | Renewable and Non-renewable Energy Resources | Elective | 24 |
| RM 707 | Climate Change and Development | Elective | 24 |
| EV 72* | Water Resources and Soil Management | Elective | 24 |

Year 1: Semester II

| Course Code | Course Title | Status | Credits |
|-------------|--|--------|---------|
| RM 703 | Human Dimensions in Natural Resources management | Core | 24 |
| RM 704 | Research Methods in Natural Resources Assessment and Communicating Research Findings | Core | 24 |
| RM 705 | Agriculture and Food Security in a Changing Environment | Core | 24 |
| RM 709 | Environment and Natural Resource Economics | Core | 24 |
| RM 710 | Gender and Natural Resources Management | Core | 24 |
| GE 715* | Environmental Disaster Risk Management and development | Core | 24 |

Second, Third and Fourth Years

| Course Code | Course Title | Status | Credits |
|---------------------------|--------------|--------|---------|
| RM 799 | Dissertation | Core | 480 |
| Comprehensive Examination | | Core | PASS |

* Course offered in other academic programmes

DOCTOR OF PHILOSOPHY (NARAM) AND PhD (CC & SD) BY THESIS

1. introduction

The PhD (NARAM) and PhD (CC & SD) programmes by thesis are offered through research, followed by writing a thesis.

2. Entry Requirements

A candidate should have at least an Honours upper second degree in a relevant field.

3. Duration of the Programme

The duration of each of the programme is 36 months.

4. Assessment: The theses will be graded

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*M. Kasebele, BSc (Dar), MSc (Dar)

*F. Chengula, BA (Dar), MSc (Dar)

*R. D. Kalokola, BA (Dar), MSc (Dar)

*G. S. Malley, BA Geog. & Env. (Dar), MSC NARAM (Dar)

Senior Administrative Officer II

J. M. Beshu, Dip, BA (Dar)

Assistant Accountant

T. Lauwo, AdvDip (Moshi)

Senior Supplies Officer II

G. S. Kassara, ADPSM (Dar), MBA (Morogoro)

Senior Systems Administrator I
C. P. Kikwaya, BSc, MSc (Dar)

Principal Laboratory Scientist II
O. Simon, BSc (UCLAS), MSc (Dar)

Senior Cartographic Technician I
T. Mndeme, Cert (Tabora), Dip (Dar)

Senior Cartographic Technician II
A. Mushi, Dip (Horsens Poly, Denmark), BSc (Dar)

**On Study Leave*

INTRODUCTION

Dar es Salaam University College of Education (DUCE) is one of the Constituent Colleges of the University of Dar es Salaam that was established in 2005. The College has three faculties, namely: Faculty of Education (FoEd), Faculty of Humanities and Social Sciences (FoHSS) and Faculty of Science (FoS). The Faculty of Education has two departments, namely: Department of Education Psychology and Curriculum Studies and the Department of Educational Foundations, Management and Lifelong Learning. The Faculty of Humanities and Social Sciences has three departments which are: Department of Languages and Literature; Department of History, Political Science and Development Studies; and the Department of Geography and Economics. The Faculty of Sciences has three departments which include: Department of Chemistry; Department of Physics, Mathematics and Informatics; and the Department of Biological Sciences.

STUDENTS' GENERAL INFORMATION

Student Administration

The office of the Dean of Students handles students' personal and social welfare aspects of life during their studies at the College. These include: residence, games and sport, worship, student counseling in various problems and career guidance. The Dean of Students also assists the Deputy Principal (Administration) in students' disciplinary matters.

Residence

The College has in-campus and off-campus accommodation facilities for postgraduate students that are available on application before the beginning of the academic year. First year students are advised to process their applications for accommodation during the orientation period.

Student Activities

Most of the students' activities are organized by DARUSO-DUCE, the students' union. DARUSO is concerned with the students' academic, political, social and recreational activities.

Games and Sports

DUCE has adequate sporting facilities ranging from soccer pitches to netball and basketball courts. The College pays much attention to students' mental and physical health by encouraging and supporting their participation in sporting events and activities.

Catering

The College offers cafeteria services for all students' meals at subsidised rates. The meals are paid for at the canteen counters.

Medical Services

DUCE runs a dispensary that provides preventive, curative and restorative health services to the students, staff and general public. The dispensary is located within the College Campus. To ensure smooth access to the services offered by the College's dispensary, every student is advised to have a medical insurance cover from a recognized insurance company.

LIST OF PROGRAMMES OFFERED BY THE COLLEGE

The College offers several postgraduate programmes as shown in the table below:

| S/N | Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|-----|---|--------------------------------|------------------|-----------|-----------------|---------------------|
| | | | | | Tanzanian (TZS) | Non-Tanzanian (USD) |
| 1. | Postgraduate Diploma in Education (PDG-E) | Coursework and Research Report | Evening | 12 months | 2,750,000 | 3,075 |

| S/N | Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fee | |
|-----|---|--------------------------------|------------------|-----------|-----------------|---------------------|
| | | | | | Tanzanian (TZS) | Non-Tanzanian (USD) |
| 2. | Postgraduate Diploma in Education (PGD-E) | Coursework and Research Report | Online | 12 months | 2,000,000 | 3,075 |
| 3. | Master of Arts with Education | Coursework and Dissertation | Full-time | 24 months | 4,000,000 | 6,150 |
| 4. | Master of Arts with Education | Thesis | Full-time | 24 months | 4,000,000 | 6,150 |
| 5. | Master of Science with Education | Coursework and Dissertation | Full-time | 24 months | 4,250,000 | 6,150 |
| 6. | Master of Arts in Public Administration | Coursework and Dissertation | Evening | 24 months | 5,000,000 | 6,030 |
| 7. | Master of Education in Educational Leadership and Policy Studies (MEELPS) | Coursework and Dissertation | Full-time | 24 months | 4,000,000 | 3,000 |
| 8. | Master of Education in Educational Leadership and Policy Studies (MEELPS) | Coursework and Dissertation | Online | 24 months | 3,200,000 | 2,500 |
| 9. | Master of Education in Curriculum Studies | Coursework and Dissertation | Full-time | 18 months | 4,000,000 | 3000 |
| 10. | Master of Education in Curriculum Studies | Coursework and Dissertation | Online | 18 months | 3,200,000 | 2,500 |
| 11. | Master of Arts in Development Evaluation | Coursework and Dissertation | Full-time | 24 months | 4,000,000 | 3000 |
| 12. | Master of Science in Environmental Biology | Coursework and Dissertation | Full-time | 24 months | 4,250,000 | 3,500 |

**FACULTY OF HUMANITIES AND SOCIAL SCIENCES
MASTER OF ARTS WITH EDUCATION (FULL-TIME)**

1. Introduction

This programme is jointly offered by three departments of the Faculty of Humanities and Social Sciences, namely: Department of Languages and Literature, Department of Geography and Economics, and Department of History, Political Science and Development Studies. It covers the following six fields: Linguistics, Literature, Kiswahili Linguistics, Kiswahili Literature, Geography and History.

2. Objectives of the Programme

The Master of Arts with Education at DUCE is designed for arts, humanities and social sciences educators who want to further develop their subject mastery and pedagogical, scholarly, research and leadership abilities through in-depth study in theory and practice. The proposed introduction of a Master of Arts with Education at DUCE is an initiative to address the learning needs of those who want to expand their subject mastery and pedagogical skills in Tanzania and beyond. The MA with Education Degree that will be offered at Dar es Salaam University College of Education is designed to prepare a person who wishes to pursue advanced professional development in the content and pedagogy of art/humanities or social sciences education (e.g. a teacher in arts, humanities, or social sciences, a community-based specialist, curriculum consultant or advocate in social issues). For individuals who wish to continue working in teaching profession, this 18-month degree programme provides a basis through which a graduate will become a qualified teacher in both content and pedagogy.

3. Entry Requirements

A candidate shall be deemed eligible for consideration for admission to a Master of Arts with Education Programme if he/she has one of the following:

- (i) First degree in education (e.g. BAEd, or BEd (Arts) degrees from any university recognised by the University of Dar es Salaam with at least a lower second class GPA of not less than 2.7 or its equivalent. To take language stream of the MA (Ed) course, one has to have studied Linguistics, Kiswahili, English, Geography, Literature, French or History in the undergraduate programme. For geography stream, one has to have studied Geography in the undergraduate degree.

OR

- (ii) First degree in BA (Kiswahili), BA (Language Studies), BA (English), BA (Geography and Environmental Studies), BA (French), BA (Literature) and BA (History) plus a Postgraduate Diploma in Education (PGDE) from any institution recognised by the University of Dar es Salaam with at least an average pass of B in the final University Examinations.

4. Programme Structure

This is a taught full-time programme that is delivered through a face-to-face mode. The duration of this programme is 18 months whereby 12 months are dedicated to coursework and examination, and six months for research report writing. The entire programme requires a student to take a minimum of 180 credits. There are four (4) compulsory courses for all streams, each with twenty-four (24) credits, totaling 96 credits. The student is also required to take seven (7) elective courses, each with twelve credits, totaling 168 credits. The research report has 24 credits.

5. List of Courses

Table 1: Core Courses

The Proposed Programme will have five streams with core courses for all streams as follows:

| Course Code | Course Title | Status | Credits |
|-------------|-------------------------------------|--------|---------|
| CT 600 | Curriculum and Teaching | Core | 24 |
| EF 601 | Comparative Education | Core | 24 |
| EA 601 | Policy, Planning and Administration | Core | 24 |
| MA 699 | Research Report | Core | 24 |

Elective Courses

Each candidate will be required to select two courses from the list indicated in Table 2:

Table 2: Elective Courses

| Course Code | Course Title | Status | Credits |
|-------------|------------------------------------|----------|---------|
| EP 603 | Psychology of Child Development | Elective | 24 |
| EP 604 | Theories of Teaching and Learning | Elective | 24 |
| AE 601 | Open and Distance Learning | Elective | 24 |
| EF 601 | Comparative Education | Core | 24 |
| EA 603 | Educational Planning and Financing | Elective | 24 |
| PE 601 | Youth and Sports Development | Elective | 24 |
| CT 607 | Advanced Curriculum Development | Elective | 24 |

Courses for Each Stream

The MA programme has six streams as shown from the tables 3 to 9 below.

Table 3: Programme Structure for Linguistics Stream

| Year | Semester I | | | |
|-------------------|---|-------------------------------------|-----------|-----------|
| | Course Code | Course Title | Status | Credits |
| 1 | ML 631 | Advanced Phonology | Core | 12 |
| | CT 600 | Curriculum and Teaching | Core | 24 |
| | <i>A student will choose 24 credits from the following:</i> | | | |
| | ML 630 | Articulatory and Acoustic Phonetics | Elective | 12 |
| | EP 603 | Psychology of Child Development | Elective | 24 |
| | EP 604 | Theories of Teaching and Learning | Elective | 24 |
| | ML 636 | Sociolinguistics of | Elective | 12 |
| | AE 601 | Open and Distance Learning | Elective | 24 |
| | ML 645 | Language Assessment and Evaluation | Elective | 12 |
| | Total | | | 60 |
| | Semester II | | | |
| | EF 601 | Comparative Education | Core | 24 |
| | ML 632 | Advanced Morphology | Core | 12 |
| | ML 633 | Advanced Syntax | Core | 12 |
| | <i>A student will choose 12 credits from the following:</i> | | | |
| | ML 637 | Translation | Elective | 12 |
| | ML 635 | Theory and Practice in Writing | Elective | 12 |
| ML 641 | Advanced Historical and Comparative Linguistics | Elective | 12 | |
| ML 646 | Stylistics | Elective | 12 | |
| ML 640 | Contact Linguistics | Elective | 12 | |
| Total | | | 60 | |
| Semester I | | | | |
| ML 650 | Research Methods for Linguists | Core | 12 | |

| | | | | |
|--------------------|---|---|------------|-----------|
| 2 | EA 601 | Policy, Planning and Administration | Core | 24 |
| | <i>A student will choose 24 credits from the following:</i> | | | |
| | EA 603 | Educational Planning and Financing | Elective | 24 |
| | PE601 | Youth and Sports Development | Elective | 24 |
| | CT 607 | Advanced Curriculum Development | Elective | 24 |
| | ML 638 | Lexicography | Elective | 12 |
| | ML 643 | Advanced Second | Elective | 12 |
| | ML 647 | African Language Structures | Elective | 12 |
| | ML 634 | Advanced Semantics | Elective | 12 |
| | ML 644 | Language Course Design - Syllabus and Materials | Elective | 12 |
| | Total | | | 60 |
| | Semester II | | | |
| MA 699 | Research Report | Core | 24 | |
| Grand Total | | | 204 | |

Table 4: Programme Structure for Literature Stream

| Year | Semester I | | | |
|------|---|-------------------------------------|----------|-----------|
| 1 | Course Code | Course Title | Status | Credits |
| | LT 610 | Literary Theory and Criticism | Core | 12 |
| | CT 600 | Curriculum and Teaching | Core | 24 |
| | LT 611 | Evolution of African Writing | Core | 12 |
| | <i>A student will choose 24 credits from the following:</i> | | | |
| | LT 615 | Linguistics Studies of the Novel | Elective | 12 |
| | EP 603 | Psychology of Child Development | Elective | 24 |
| | EP 604 | Theories of Teaching and Learning | Elective | 24 |
| | LT 600 | Dramaturgy and Dramatic | Elective | 12 |
| | LT 613 | Prison and Exile Literature | Elective | 12 |
| | LT 619 | Perspectives in Writing | Elective | 12 |
| | Total 72 | | | |
| | Semester II | | | |
| | EF 601 | Comparative Education | Core | 24 |
| | LT 612 | Studies in the Epic | Core | 12 |
| | LT 614 | Trends in Modern Literature | Core | 12 |
| | LT 618 | Post-colonial Literature | Core | 12 |
| | LT 620 | Sociology of Literature | Core | 12 |
| | Total | | | 72 |
| 2 | Semester I | | | |
| | LT 616 | Research Methods | Core | 12 |
| | EA 601 | Policy, Planning and Administration | Core | 24 |

| | | | |
|--|------------------------------------|----------|----------------|
| LT 617 | Folklore and Society | Core | 12 |
| <i>A student may choose 24 credits from the following:</i> | | | |
| EA 603 | Educational Planning and Financing | Elective | 24 |
| PE 601 | Youth and Sports Development | Elective | 24 |
| CT 607 | Advanced Curriculum Development | Elective | 24 |
| Total | | | 72 |
| Semester II | | | |
| MA 699 | Research Report | Core | 24 |
| Grand Total | | | 216/240 |

Table 5: Programme Structure for Geography Stream

| Year | Semester I | | | |
|--------------|---|---|---------------|----------------|
| 1 | Course Code | Title | Status | Credits |
| | GE 630 | Geographic Thought | Core | 12 |
| | GE 631 | Climate Change and Human Adjust- ments | Core | 12 |
| | CT 600 | Curriculum and Teaching | Core | 24 |
| | <i>A student will choose 24 credits from the following:</i> | | | |
| | EP 603 | Psychology of Child Development | Elective | 24 |
| | EP 604 | Theories of Teaching and Learning | Elective | 24 |
| | AE601 | Open and Distance Learning | Elective | 24 |
| | GE 628 | Population, Resources and Environ- ment | Elective | 12 |
| | GE 641 | Environmental Disaster Management and Sustainable Human Development | Elective | 12 |
| | Total | | | 72 |
| | Semester II | | | |
| | EF601 | Comparative Education | Core | 24 |
| | GE 634 | Spatial Development Theories and Environmental Resources Management | Core | 12 |
| | GE 633 | Applied Geographical Information Systems | Core | 12 |
| | GE 632 | Geographical Research Methods | Core | 12 |
| | <i>A student will choose 12 credits from the following:</i> | | | |
| GE 637 | Tourism and Development | Elective | 12 | |
| GE 643 | Water Resources, Planning and Man- agement | Elective | 12 | |
| GE 644 | Environment, Food and | Elective | 12 | |
| Total | | | 72 | |
| 2 | Semester I | | | |
| | GE 645 | Strategic Urban Environmental Management | Core | 12 |
| | EA601 | Policy, Planning and Administration | Core | 24 |
| | GE 636 | Integrated Natural Resources Management | Core | 12 |

| | | | |
|---|--|----------|------------|
| <i>A student will choose 24 credits from the following:</i> | | | |
| EA603 | Educational Planning and | Elective | 24 |
| PE601 | Youth and Sports Development | Elective | 24 |
| CT607 | Advanced Curriculum | Elective | 24 |
| GE 635 | Environmental Conservation Policies and Strategies | Elective | 12 |
| GE 640 | Urban Planning and Management in a Globalizing World | Elective | 12 |
| GE 642 | Medical Geography | Elective | 12 |
| Total 72 | | | |
| Semester II | | | |
| MA 699 | Research Report | Core | 12 |
| Grand Total | | | 228 |

Table 6: Programme Structure for Kiswahili Linguistics Stream

| Year | Semester I | | | |
|--------------|---|---|-----------|-----------|
| | Course Code | Title | Status | Credi |
| 1 | KI 601 | Fonolojia ya Kiswahili | Core | 10 |
| | KF 618 | Mikabala ya Uhakiki wa Kifasihi | Core | 10 |
| | CT 600 | Curriculum and Teaching | Core | 24 |
| | <i>A student will choose 24 credits from the following:</i> | | | |
| | EP 603 | Psychology of Child Development | Elective | 24 |
| | EP 604 | Theories of Teaching and Learning | Elective | 24 |
| | AE 601 | Open and Distance Learning | Elective | 24 |
| | KI 608 | Masuala ya Kisasa katika Isimu-jamii ya Kiswahili | Elective | 10 |
| | KI 614 | Leksikografia ya Kiswahili | Elective | 10 |
| | Total | | | 68 |
| | Semester II | | | |
| | EF 601 | Comparative Education | Core | 24 |
| | KI 602 | Mofolojia ya Kiswahili | Core | 10 |
| | KI 603 | Sintaksia ya Kiswahili | Core | 10 |
| | KIS 630 | Mbinu za Utafiti | Core | 10 |
| | <i>A student will choose 10 credits from the following:</i> | | | |
| | KI 606 | Tafsiri: Nadharia na Vitendo | Elective | 10 |
| KI 610 | Isimu-linganishi na Isimu-historia ya Lugha za Kibantu | Elective | 10 | |
| KI 613 | Isimu-tumizi ya Kiswahili | Elective | 10 | |
| Total | | | 64 | |
| 2 | Semester I | | | |
| | KS 629 | Semina ya Uzamili | Core | 10 |

| | | | | |
|---|--------------------|-------------------------------------|----------|------------|
| | EA 601 | Policy, Planning and Administration | Core | 24 |
| | KI 604 | Semantiki ya Kiswahili | Core | 10 |
| <i>A student will choose 24 credits from the following:</i> | | | | |
| | EA 603 | Educational Planning and Financing | Elective | 24 |
| | PE 601 | Youth and Sports Development | Elective | 24 |
| | CT 607 | Advanced Curriculum Development | Elective | 24 |
| | KI 611 | Nadharia za Kujifunza Lugha ya Pili | Elective | 10 |
| | KI 609 | Historia na Lahaja za Kiswahili | Elective | 10 |
| | KI 607 | Miundo Changamani ya Kiswahili | Elective | 10 |
| | Total | | | 68 |
| | Semester II | | | |
| | MA 699 | Research Report | Core | 12 |
| Grand Total | | | | 210 |

Table 7: Programme Structure for Kiswahili Literature Stream

| Year | Semester I | | | | |
|---|---|--|-----------|-----------|--|
| | Course Code | Course Title | Status | Credits | |
| 1 | KI 601 | Fonolojia ya Kiswahili | Core | 10 | |
| | KF 618 | Mikabala ya Uhakiki wa Kifasihi | Core | 10 | |
| | CT 600 | Curriculum and Teaching | Core | 24 | |
| | <i>A student will choose 24 credits from the following:</i> | | | | |
| | EP 603 | Psychology of Child Development | Elective | 24 | |
| | EP 604 | Theories of Teaching and Learning | Elective | 24 | |
| | AE 601 | Open and Distance Learning | Elective | 24 | |
| | KF 619 | Mshairi Teule | Elective | 10 | |
| | KF 623 | Tendi Simulizi na Andishi katika Kiswahili | Elective | 10 | |
| | KF620 | Fanani Teule | Elective | 10 | |
| | Total | | | 68 | |
| | Semester II | | | | |
| | EF 601 | Comparative Education | Core | 24 | |
| | KF 616 | Tamthilia ya Kiswahili | Core | 10 | |
| | KF 615 | Riwaya ya Kiswahili | Core | 10 | |
| | KIS 630 | Mbinu za Utafiti | Core | 10 | |
| | <i>A student will choose 10 Credits from the following:</i> | | | | |
| | KF 626 | Fasihi katika Tafsiri ya Kiswahili | Elective | 10 | |
| | KF 625 | Fasihi ya Majaribio katika Kiswahili | Elective | 10 | |
| | KF 621 | Kazi Bora za Fasihi ya Kiswahili | Elective | 10 | |
| KF 628 | Elimu-mitindo ya Fasihi ya Kiswahili | Elective | 10 | | |
| Total | | | 64 | | |
| 2 | Semester I | | | | |
| | KS 629 | Semina ya Uzamili | Core | 10 | |
| | EA 601 | Policy, Planning and Administration | Core | 24 | |
| | KF 617 | Ushairi wa Kiswahili | Core | 10 | |
| <i>A student will choose 24 credits from the following:</i> | | | | | |

| | | | | |
|--------------------|--------------------|--|----------|------------|
| | EA 603 | Educational Planning and Financing | Elective | 24 |
| | PE 601 | Youth and Sports Development | Elective | 24 |
| | CT 607 | Advanced Curriculum Development | Elective | 24 |
| | KF 627 | Historia ya Taaluma ya Fasihi ya Kiswahili | Elective | 10 |
| | KF 624 | Ngano za Kiswahili | Elective | 10 |
| | KF 622 | Wanawake Katika Fasihi ya Kiswahili | Elective | 10 |
| | Total | | | 68 |
| | Semester II | | | |
| | MA 699 | Research Report | Core | 12 |
| Grand Total | | | | 210 |

Table 8: Programme Structure for History Stream

| Year | Semester I | | | |
|--------------|---|--|-----------|-----------|
| | Course Code | Title | Status | Credits |
| 1 | HI 605 | Theory of History | Core | 12 |
| | HI 606 | Historiography of Africa | Core | 12 |
| | CT 600 | Curriculum and Teaching | Core | 24 |
| | <i>A student will choose 24 credits from the following:</i> | | | |
| | EP 603 | Psychology of Child Development | Elective | 24 |
| | EP 604 | Theories of Teaching and Learning | Elective | 24 |
| | AE 601 | Open and Distance Learning | Elective | 24 |
| | HI 614 | Diseases and Healing in Africa: Late 19 th Century to the Present | Elective | 12 |
| | HI 612 | Topics in Tanzania Environmental History | Elective | 12 |
| | Total | | | 72 |
| | Semester II | | | |
| | EF 601 | Comparative Education | Core | 24 |
| | HI 608 | Preparation of History Research Proposals | Core | 12 |
| | HI 609 | Global Capitalism and Africa | Core | 12 |
| | <i>A student will choose 12 credits from the following</i> | | | |
| | HI 613 | History of Labour in Sub-Saharan Africa | Elective | 12 |
| | HI 610 | African History and Allied Sciences | Elective | 12 |
| AY 620 | History of Heritage Conservation | Elective | 12 | |
| Total | | | 60 | |
| 2 | Semester I | | | |
| | HI 611 | Colloquium on the Political Economy of Tanzania | Core | 12 |
| | EA 601 | Policy, Planning and Administration | Core | 24 |
| | HI 607 | History Research Methods and Techniques | Core | 12 |
| | <i>A student will choose 24 credits from the following</i> | | | |
| | EA 603 | Educational Planning and Financing | Elective | 24 |
| PE 601 | Youth and Sports Development | Elective | 24 | |

| | | | |
|--------------------|--|----------|------------|
| CT 607 | Advanced Curriculum Development | Elective | 24 |
| KF 627 | Historia ya Taaluma ya Fasihi ya Kiswahili | Elective | 10 |
| AY 624 | Heritage for Tourism | Elective | 12 |
| AY 625 | Heritage Management and Conservation | Elective | 12 |
| Total | | | 72 |
| Semester II | | | |
| MA 699 | Research Report | Core | 12 |
| Grand Total | | | 210 |

6. Programme Evaluation and Examinations

Evaluation of the programmes will be through coursework and examinations. Except for the dissertation, each course will be evaluated as follows:

Coursework: exercises, tests, and term paper/presentations 50%

Final Examination: 50%

Total: 100%

The pass mark for each examinable course shall be 50%. A candidate who may not have completed coursework part of the programme shall not be allowed to proceed for dissertation.

MASTER OF ARTS IN PUBLIC ADMINISTRATION (EVENING PROGRAMME)

1. Introduction

This is a taught evening programme in the Department of History, Political Science and Development Studies. It seeks to enable individuals who are unable to attend regular full-time classes achieve their goal of advancing their knowledge and skills in public administration.

2. Objectives of the Programme

- To provide students with intellectual knowledge, critical perspectives, professional competences and analytical skills necessary for understanding the discipline of public administration.
- To offer training and education in the management of public affairs, public policy, human resource management, research methods, public financial management, performance management, governance, organization theory, etc.
- To provide in-service professionals with the opportunity to strengthen their analytical and problem-solving skills in order to promote societal goals as well as advance their own career.

3. Entry Requirements

To qualify for admission into the MA (Public Administration) programme, applicants shall have to meet admission requirements of the University of Dar es Salaam. Consideration for admission shall be made for applicants with at least a lower second class in a Bachelor Degree in Political Science and Public Administration, BA (Education), BEd (Arts), or related fields from a recognized university.

4. Programme Structure

This is a two-year evening programme with 12 months of two taught semesters comprising coursework and examinations. The remaining 12 months are dedicated to dissertation writing. To qualify for graduation, a student will be required to take a minimum of 180 credits out of which 120 credits (i.e 10 courses) will be for coursework and 60 credits for dissertation.

5. List of Courses

Table 9: Programme Structure

| Year | Course Code | Course Title & | Credits | Status | Semester |
|------|-------------|---|---------|----------|----------|
| 1 | PS 601 | Principles and Methods in Social Science Research | 12 | Core | I |
| | PA 603 | Administrative Theory: Models, Concepts and Paradigms | 12 | Core | |
| | PA 605 | Public Policy | 12 | Core | |
| | PA 606 | Human Resource Management | 12 | Core | |
| | PA 616 | Corporate Governance | 12 | Elective | |
| | PA 617 | Local Governance | 12 | Elective | |
| | PA 604 | Public Finance Management | 12 | Core | II |
| | PA 607 | Administrative and Labour Laws | 12 | Elective | |
| | PA 613 | Employee and Labour Relations | 12 | Elective | |
| | PA 618 | Organizational Development and Change | 12 | Elective | |
| | PA 625 | Managing Public Services | 12 | Elective | |
| | PS 625 | Gender and Governance | 12 | Elective | |
| 2 | PA 699 | Dissertation | 60 | Core | |

6. Programme Evaluation and Examinations

Evaluation of the programme shall be through coursework and examinations. Except for the research paper, each course shall be evaluated as follows:

| | |
|--|-------------|
| Coursework: Assignments, tests, seminars paper/presentations | 50% |
| Final Examination: | 50% |
| Total: | 100% |

The pass mark for each examinable course shall be 50%. Progression to the research paper shall depend on a successful completion of the coursework. A candidate who fails to meet the threshold of the coursework shall not be allowed to proceed for the research paper.

MASTER OF ARTS IN DEVELOPMENT EVALUATION

1. Introduction

The Master of Arts in Development Evaluation (MADE) is an eighteen (18) months taught programme comprising of course-work and dissertation. Coursework will run for a period of two semesters of the first twelve (12) months, comprising 15 teaching weeks and the final examination at the end of each semester. The last six (6) months shall be devoted to research and writing of the dissertation.

2. Programme Objective

Enhancing capabilities for conducting quality and credible evaluation of development interventions.

3. Entry Requirements

To qualify for admission into the Master of Arts in Development Evaluation Degree Programme, applicants shall hold the following qualifications:

- A Second Class degree of the University of Dar es Salaam (UDSM) or an equivalent degree from a recognized higher learning institution, with a minimum GPA of 2.7. Candidates who hold an unclassified degree should have at least a B grade average in subjects related to Development Studies.
- Candidates with a PASS degree will also be considered for admission if:

- i. Their undergraduate performance in subjects related to Development Studies is at least of B grade, and/or
- ii. They have satisfied the university that they have exhibited academic potential through extensive fieldwork/research experience of at least three years and/or additional professional development courses of duration of at least three months. Candidates who hold unclassified degrees should have a PASS and an average of B grade in subjects related to Development Studies.

4. Programme Structure

Year 1: Semester I

| Course | Course Title | Status | Credits |
|--------|--|----------|---------|
| DE 601 | Theories and Practices of Development | Core | 12 |
| DE 602 | Development Planning and Management | Elective | 12 |
| DE 603 | Paradigms and Approaches to Development Evaluation | Core | 12 |
| DE 604 | Development Monitoring and Evaluation Systems | Core | 12 |
| DE 605 | Research Methodologies in Development Evaluation | Core | 12 |
| DE 610 | Gender-Sensitive Monitoring and Evaluations | Elective | 12 |

Year 1: Semester II

| Course | Course Title | Status | Credits |
|--------|---|----------|---------|
| DE 606 | Statistical Methods for Development Evaluation | Core | 12 |
| DE 607 | Development Evaluation Ethics | Core | 12 |
| DE 608 | Planning for Development Evaluation | Core | 12 |
| DE 609 | Evaluating Value for Money | Elective | 12 |
| DE 611 | Communication and Reporting Skills for Development Evaluation | Core | 12 |
| DE 612 | Meta-Evaluation of Development Evaluations | Elective | 12 |

Year 2: Semester I

| Course | Course Title | Status | Credits |
|--------|--------------|--------|---------|
| DE 699 | Dissertation | Core | 60 |

7. Programme evaluation and examinations

Evaluation of the programme shall be through coursework and examinations as follows:

Coursework: Assignments, tests, seminars paper/presentations 50%

Final Examination: 50%

Total: 100%

The pass mark for each examinable course shall be 50%. Progression to the dissertation stage shall depend on a successful completion of the coursework. A candidate who fails to meet the threshold of the coursework shall not be allowed to proceed for the dissertation.

FACULTY OF SCIENCE

MSC (ED) BIOLOGY, CHEMISTRY AND MATHEMATICS STREAMS

1. Introduction

The MSc programme is intended for graduate science teachers who want to expand a scope and depth of their knowledge base in the major areas of natural science and mathematics, and advance one's professional career as a science teacher. In order to cater for the large number of science teachers, the programme is offered in the mode of coursework and dissertation and the duration is two years. The coursework

programme component consists of science discipline-based and education courses. A candidate shall major in only one science (or mathematics) subject. The programme is jointly offered by three departments, namely: Department of Chemistry, the Department of Biological Sciences and Department of Physics, Informatics and Mathematics.

2. Entry Requirements

Admission into the programme will be in accordance with the University of Dar es Salaam regulations regarding postgraduate studies. Candidates applying for the MSc programme should have BSc (Ed) or BEd (Science) degrees from a recognized institution. Graduates from non-education science degree programmes, or equivalent qualifications, will be required to undertake the Postgraduate Diploma in Education as a prerequisite programme prior to admission into the MSc (Ed) programme.

3. Programme Structure

The MSc (Ed) is a taught programme comprising coursework and dissertation and the duration shall be twenty-four months (2 years). Coursework will run over a period of two semesters of 15 teaching weeks each, with final examination at the end of each semester. The second year shall be devoted to research and writing of the dissertation. During the second semester of the first year, students will be required to develop research proposals, detailing the theoretical background and methodology as a preparation for research and dissertation work. The minimum number of credits a student is required to take is 144 credits (consisting of both core and elective courses) during the coursework year and 72 credits for dissertation during the second year. Therefore, the minimum load for a candidate to graduate is 216 credits.

4. List of Courses

Education Courses

Core Courses

| Course Code | Course Title | Credits | Semester |
|--------------|-----------------------------------|-----------|----------|
| FE 600 | Research Methods in Education | 24 | I |
| EP 604 | Theories of Teaching and Learning | 24 | |
| CT 605 | Computer Assisted Learning | 24 | II |
| Total | | 72 | |

Elective Courses

| Course Code | Course Title | Credits | Semester |
|-------------|---|---------|----------|
| CT 600 | Curriculum and Teaching* | 24 | I |
| CT 603 | Professional Development in SMT* | 24 | |
| CT 604 | Assessment of Performance in SMT* | 24 | II |
| EA 607 | Management of Education Systems and Institutions* | 24 | |

Biology Stream

Core Courses

| Course Code | Course Title | Credits | Semester |
|--------------|-----------------------------------|------------|----------|
| ZL 604 | Protozoology and Helminthology | 12 | I |
| BL 617 | Molecular Biology | 12 | |
| BL 661 | Advanced Genetics | 12 | |
| BL 662 | Biological Methods and Techniques | 12 | II |
| BL 607 | Biostatistics | 12 | |
| BL 663 | Advanced Physiology | 12 | |
| BL 699 | Dissertation | 72 | |
| Total | | 144 | |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|--|---------|
| BC 604 | Aquatic Biodiversity and Conservation | 12 |
| BT 605 | Plant Protection | 12 |
| BL 668 | Soil/Plant Water Relations | 12 |
| BL 670 | Fauna and Flora of East Africa | 12 |
| ZL 612 | Animal Reproductive Physiology | 12 |
| ZL 616 | Insect Ecology, Pest and Vector Management | 12 |

Chemistry Stream*Core Courses*

| Course Code | Course Title | Credits | Semester |
|--------------|--|------------|----------|
| CH 606 | Coordination Chemistry | 12 | I |
| CH 619 | Physical Chemistry | 12 | |
| CH 630 | Advanced Analytical Chemistry and Instrumentation | 12 | II |
| CH 618 | Structure, Properties and Applications of Polymers | 12 | |
| CH 651 | Chemistry of Biomolecules | 12 | |
| CH 699 | Dissertation | 72 | I & II |
| Total | | 132 | |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|---------------------------------------|---------|
| CH 603 | Solid State Chemistry | 12 |
| CH 607 | Advanced Physical Organic Chemistry | 12 |
| CH 610 | Surface and Colloid Chemistry | 8 |
| CH 611 | Heterocyclic Chemistry | 8 |
| CH 613 | Advanced Environmental Chemistry | 8 |
| CH 616 | Chemistry of Natural Products | 12 |
| CH 394 | Fundamentals of Theoretical Chemistry | 12 |

Mathematics Stream*Core Courses*

| Course Code | Course Title | Credits | Semester |
|--------------|---|---------|------------|
| MT 641 | Advanced Mathematical Statistics | 12 | I |
| MT 662 | Optimization Methods of Operations Research | 12 | |
| MT 663 | Ordinary Differential Equations I | 12 | II |
| MT 605 | Advanced Linear Algebra | 12 | |
| MT 602 | Numerical Analysis | 12 | |
| MT 699 | Dissertation | 72 | |
| Total | | | 132 |

Elective Courses

| Course Code | Course Title | Credits | Semester |
|-------------|---------------------------------------|---------|----------|
| MT 657 | Methods of Mechanics | 12 | I |
| MT 660 | Computer Applications and Programming | 12 | |
| MT 601 | Advanced Probability Theory | 12 | II |
| MT 608 | Algebraic Geometry | 12 | |
| MT 610 | Complex Analysis | 12 | |

5. Programme Evaluation and Examinations

The General University of DaresSalaam and the DUCE examination regulations governing the award of postgraduate programmes shall be applied.

MASTER OF SCIENCE IN ENVIRONMENTAL BIOLOGY

1. Objectives of the Programme

To provide postgraduate students with ability to apply environmental biology knowledge and skills to ensure that all developmental actions are undertaken with minimum detrimental effect to the environment, and also be able to predict environmental crisis and propose mitigation measures for sustainable development.

2. Entry Requirements

A candidate shall be deemed eligible for consideration for admission into a Degree Programme if he/she has any of the following qualifications:

- Candidates must hold a Bachelor degree majoring in Biology with at least a lower second class degree of GPA not less than 3.0 from a recognized University.

In that case, applicants shall either hold Bachelor of Science General, Bachelor of Science with Education, Bachelor of Education in Science, Bachelor of Science in Environmental Sciences and Management, Bachelor of Science in Zoology, Bachelor of Science in Botany, Bachelor of Science in Biology, Bachelor of Science in Molecular Biology, Bachelor of Science in Wildlife and Conservation, Bachelor of Science in Wildlife Management, Bachelor of Science in Animal Science, Bachelor of Science in Agriculture, Bachelor of Science in Environmental Sciences and Public Health or any other related Bachelor Degree.

- Postgraduate Diploma with Biology from any recognised institution with at least an average pass of B in the final university examinations.

3. Programme Structure

The MSc. (Ed.) is a two-year programme with 12 months of two taught semesters comprising coursework and examinations. The coursework phase will run over a period of two semesters of 15 teaching weeks, with final examination at the end of each semester. This is followed by 12 months of dissertation. During the second semester of the first year, students will be required to develop research proposals, detailing the theoretical background and methodology as a preparation for research and dissertation work

4. List of Courses

Core Courses

| Course Code | Course Title | Credits | Semester |
|--------------|--|------------|----------|
| EB 601 | Applied Ecology | 12 | I |
| EB 602 | Bioethics | 12 | |
| EB 603 | Biodiversity Conservation and Management | 12 | |
| EB 604 | Environmental Pollution and Control | 12 | |
| EB 608 | Scientific Research Methods | 12 | II |
| EB 609 | Environmental Assessment | 12 | |
| EB 612 | Environmental Microbiology | 12 | |
| EB 613 | Environmental Education | 12 | |
| EB 699 | Dissertation | 60 | |
| Total | | 156 | |

Elective Courses

| Course Code | Course Title | Credits | Semester |
|-------------|--|---------|----------|
| EB 605 | Plant Pathology Helminthology | 12 | I |
| EB 606 | Environmental Biotechnology | 12 | |
| EB 607 | Climate Change and Disaster Management | | |
| ZL 630 | Physiology and the Environment | | |
| EB 610 | Parasite Ecology | 12 | II |
| EB 611 | Ecological Entomology | 12 | |
| EB 6114 | Environmental Law, Policy and Management Systems | 12 | |
| GE 633 | Applied Geographical Information systems | 12 | |

5. Programme Evaluation and Examinations

Assessment of the programme will be through coursework assessment, final University Examinations and dissertation. Coursework assessment and the final examinations will weigh 50% each. The candidate must successfully complete the coursework phase before they are allowed to proceed to the dissertation phase in their second year. Successful completion of the taught courses shall mean an attainment of a B grade or above in each course.

FACULTY OF EDUCATION

MASTER OF EDUCATION IN EDUCATIONAL LEADERSHIP AND POLICY STUDIES

(ME-ELPS)

1. Introduction

ME-ELPS is a taught programme comprising coursework and dissertation. The duration shall be eighteen months (1 year and six months) for full-time students. The coursework phase will run over a period of two semesters of 15 teaching weeks, with final examinations at the end of each semester. The last semester shall be devoted to research and writing of the dissertation. During the second semester of the first year, students will be required to develop research proposals, detailing the theoretical background and methodology as a preparation for research and dissertation work

2. Objectives of the Programme

- i. Enabling learners to review and analyze education trends and perspectives over time, relating the interaction between the goals of the educational system and the demands placed on the system by the society.
- ii. Developing students' theoretical and practical knowledge and skills on basic research regarding educational leadership and policy issues.
- iii. Developing an understanding on educational policy development, analysis and implementation and how they affect educational systems.
- iv. Deepening individual understanding of the educational system bottlenecks and the available possibilities to improve school systems and narrow achievement gaps
- v. Analyze constructively emerging issues in the field of education, with particular focus on educational leadership, administration, entrepreneurship, gender and ethical challenges and concerns facing the present and future of education system.
- vi. Analyzing policies and procedures that affect personnel management in the schools including communication techniques and strategies for educational leadership
- vii. Exploring issues of comparative education studies placing primary focus on educational policy and practice.

3. Entry Requirements

A candidate shall be deemed eligible for consideration for admission into a Degree Programme if he/she has any of the following qualifications:

- Bachelor degree in education from any recognised university with at least a lower second GPA of not less than 2.7 or its equivalent.
- Postgraduate Diploma in Education (PGDE) from any recognised institution with at least an average pass of B in the final university examination.

4. Programme Structure

Students are expected to complete the programme in 18 months which include two (2) semesters for coursework and one (1) semester for dissertation. This is a full-time programme offered through face to face and online modes. The entire programme requires a student to take a maximum of 180 credits (120 credits for coursework and 60 credits for the dissertation).

5. List of Courses

| Course Code | Course Title | Status | Credits |
|-------------|--|----------|---------|
| ER 600 | Educational Research: Theory and Practice I | Core | 12 |
| ER 601 | Educational Research: Theory and Practice II | Core | 12 |
| EL 600 | Educational Leadership and Organizational Effectiveness | Core | 12 |
| EL 601 | Educational Policy Analysis: International Perspectives | Core | 12 |
| EL 602 | Educational Planning: Theory and Practice | Core | 12 |
| EL 603 | International and Comparative Studies in Educational Leadership and Policy | Core | 12 |
| EL 604 | Ethical and Legal Issues in Educational Leadership | Core | 12 |
| EL 605 | Politics of Education in Global Perspective | Elective | 12 |
| EL 606 | Entrepreneurial Management for Educational Leaders | Core | 12 |
| EL 607 | Gender Issues in Educational Leadership and Management | Elective | 12 |
| EL 608 | Quality Management in Education | Elective | 12 |
| EL 609 | Strategic Management and Leadership in Education | Elective | 12 |
| EL 610 | Organisational Development and Dynamics in Education | Elective | 12 |
| EA 606 | Economics of Education and Financing | Elective | 12 |
| FE 699 | Dissertation | Core | 60 |

6. Programme Evaluation and Examinations

Assessment of the programmes will be through coursework and examinations except for the research report, each course will be assessed as follows: Coursework: 50% Final Examination: 50% Total: 100% The pass mark for each examinable course shall be 50%. A candidate who may not have completed coursework part of the programme shall not be allowed to proceed for research work. The pass mark for research report will be a 'B' grade. Other assessment regulations, procedures and guidelines as stipulated in "General Regulations and Guidelines for Postgraduate Programmes" (2018) and other related documents issued by the university from time to time shall apply

MASTER OF EDUCATION IN CURRICULUM STUDIES [MED (CS)]

1. Introduction

The Department of Educational Psychology and Curriculum Studies (EPCS) of the Dar es Salaam University College of Education proposes to establish a Postgraduate Programme: Master of Education in Curriculum Studies [M.Ed. (CS)] degree programme which is expected to begin in 2020/2021 Academic Year.

2. Objectives of the Programme

The overall objective for MEd. (CS) degree programme is to equip candidates with theoretical, professional, pedagogical, technological, and practical knowledge and skills in curricula studies for the provision of sustainable quality education in the society. In addition, the programme intends to produce competent and innovative candidates in designing and developing sustainable curricula that afford for inclusion of learners' diversity, integration of global learning needs into the national curriculum, researching on curricular issues, designing and implementing curriculum-based training programmes. The programme seeks to promote employability of school and university graduates in current labour market

3. Entry Requirements

Entry Qualification Admission into the programme will be in accordance with the University of Dar es Salaam regulations regarding postgraduate studies. A candidate shall be deemed eligible for consideration for admission into a MEd. (CS) Programme if he or she has any of the following qualifications:

- i. First degree in education (e.g. BAEd, or B. Ed (Arts), B. Sc (Ed.) or B. Ed (Sc.) degrees) from any recognised University with at least a lower second class of GPA of not less than 2.7 or its equivalent
OR
- ii. Postgraduate Diploma in Education (PGDE) from any institution recognised by the University with at least a lower second class GPA of not less than 2.7 or its equivalent.

4. Programme Structure

The students are expected to complete the programme in 18 Months which include Two (2) semesters for coursework and one (1) semester for dissertation. The entire programme requires a student to take a maximum of 180 credits (120 credits for coursework and 60 credits for the dissertation).

5. List of Courses

Semester 1: Year 1

| Course Code | Course Name | Status | Credits |
|-------------|---|----------|---------|
| CT 650 | Curriculum Foundations and Theories | Core | 12 |
| CT 651 | Educational Programme Design and Development | Core | 12 |
| CT 652 | Curriculum Material Development and Use | Core | 12 |
| FE 600a | Research Methods in Education 1 | Core | 12 |
| CT 656 | Curriculum Management and Policy Administration | Elective | 12 |
| CT 657 | Curriculum Development Trends in National and International Context | Elective | 12 |
| CT 658 | Curriculum Policies Development and Analysis | Elective | 12 |
| CT 659 | Curriculum Implementation: Theory into Practice | Elective | 12 |

Semester 2: Year 1

| Course Code | Course Name | Status | Credits |
|-------------|---|--------|---------|
| CT 653 | Pedagogical Perspectives and Approaches | Core | 12 |
| CT 654 | Technologies in Teaching and Learning | Core | 12 |
| CT 655 | Classroom Assessment and Evaluation | Core | 12 |
| FE 600b | Research Methods in Education 2 | Core | 12 |

| | | | |
|--------|---|----------|----|
| CT 660 | Social Studies Curriculum and Development | Elective | 12 |
| CT 661 | Theoretical and Practical Issues in Science Teaching and Learning | Elective | 12 |
| CT 662 | Mathematics Curriculum Development | Elective | 12 |
| CT 663 | Language and Literacy Education | Elective | 12 |

Semester 1: Year 2

| Course Code | Course Name | Status | Credits |
|-------------|--------------|--------|---------|
| FE 699 | Dissertation | Core | 60 |

6. Programme Evaluation and Examinations

A pass mark for each examinable course shall be 50%. In general, the University of Dar es Salaam examination regulations governing the award of Master degrees shall apply. Evaluation of the programme will be through coursework and final University examination as well as Dissertation. Coursework will weigh 50% and the final University Examination will weigh 50%. Candidates must successfully complete the coursework phase (attainment of a B grade or above) before they are allowed to embark to the dissertation phase in their second year.

POSTGRADUATE DIPLOMA IN EDUCATION (PGDE) (EVENING/ONLINE)

1. Introduction

The Postgraduate Diploma in Education (PGDE) degree programme is offered through two modes namely.

2. Objective of the programme

This programme aims at professionalizing non-education graduates by training them to become professional teachers.

3. Entry Requirements

- The minimum qualification for admission into PGDE is a bachelor degree (non-education) with a GPA of 2.7 or above from UDSM or any other institution recognized by TCU.
- A non-education (Advanced) Diplomain Education offered by UDSM or any other institution recognized by TCU may also suffice for consideration for admission into PGDE.
- SOED Board may also consider applicants with any other equivalent qualification not mentioned above, subject to the Senate approval.

4. Structure of the Programme

PGDE programme comprises of coursework and Teaching Practice (TP). Full-time students shall complete their coursework within the first 2 semesters of enrolment. Within the third semester, the candidate must submit the independent study report.

A student is expected to complete the programme in 12 months. The entire programme requires a student to take a maximum of 156 credits from nine (9) compulsory courses, each with twelve (12) credits, totaling 108 credits; and two (2) elective courses, each with twelve (12) credits, totaling 24 credits and one practicum course with 24 credits.

5. List of Courses

Table 1: Core Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| CT501 | Principles of Curriculum Development and Teaching | 12 |
| EP500 | Introduction to Educational Psychology | 12 |

| | | |
|--------------|---|------------|
| EF 500 | Principles of Education | 12 |
| FE 502 | Research Methods and Data Analysis | 12 |
| CT509 | Classroom Interaction & Research | 12 |
| CT512 | Didacts | 12 |
| EP503 | Assessment and Evaluation | 12 |
| EA500 | Management of Education and School Administration | 12 |
| CT513 | Practicum | 24 |
| FE 599 | Independent Study | 12 |
| Total | | 132 |

Table 2: Elective Courses

| Course Code | Course Title | Credits |
|-------------|---|---------|
| AE 501 | Human Rights Education | 12 |
| AE 500 | Adult Learning | 12 |
| CT500 | Language Education | 12 |
| CT508 | Library Education and Information Management. | 12 |
| CT507 | Introduction to Entrepreneurial Education | 12 |
| EA502 | Administrative & Organizational Behaviour. | 12 |
| EA501 | Human Resources Development in Educational Organizations. | 12 |
| EF 501 | Sociology of Education | 12 |
| EP504 | Educational Guidance and Counseling | 12 |
| PE 501 | Theory and Practice of Fitness Promotion | 12 |

6. Programme Evaluation and Examinations

Assessment

- i. Each course in PGDE programme shall be offered and assessed in the same semester and a grade awarded.
- ii. The average grade/pass for all postgraduate courses must be at least "B".
- iii. A candidate whose GPA is below 2.7 shall be discontinued from the programme.
- iv. A candidate whose overall GPA is 2.7 or above shall be allowed to do supplementary examinations in the failed courses.
- v. The maximum grade that can be attained from a supplementary examination shall be "B".
- vi. Candidates who fail in more than one supplementary examination shall be discontinued from the programme.
- vii. A candidate who fails in only one supplementary examination shall be allowed to repeat the failed course.
- viii. A candidate who repeats a course and fails in the first sitting examination shall not be allowed a supplementary, and shall be discontinued from the programme.
- ix. The final examinations shall be held immediately upon completing a course. The weighing of this final examination in determining the grade for the course shall be the University Examination 50% and Continuous Assessment 50%, except for a course on practicum. The form of assessment shall be specified by respective instructors at the beginning of the course.
- x. University guidelines on the preparation of dissertations shall apply.

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M. K. Kateko, BEd (Dar), MIE (Massachusetts), PhD (Beijing)
L. Mkonongwa, Dip (Morogoro), BAEd, MAASP (Dar), PhD (Dublin)
N. Mabula, BSc, MA (Dar), PhD (Konstanz)
N. Rukondo, BSc, MEd, PhD (Dar)
*R. J. Mwakabenga Dip (Mpwapwa), BAEd, MAEd (Dar), PhD (New Zealand)
S. M. Kejo, BAEd, MAEd (Dar), PhD (Victoria)
T. Venancy BSc, MEd (Dar), PhD (Munich)

Assistant Lecturers

E. Kyaruzi, Dip (Monduli), BA, MA (Dar)
*F. Masath, BEd, MA (Dar)
G. Andrew, BEd, MA (Dar)
*G. Nnko, BEd, MA (Dar)
T. Yotham, BAEd, MA (Dar)
J. Kipanda, BAEd, MAEd (Dar)
J. L. Kajungu, Dip (Keruru), BSc, MEd (Dar)
*K. Dadi, BEd, MAEd (Dar)
*L. Gabriel, BAEd, MAEd (Dar)
*P. William, BEd, MA (Dar)
J. C. Ngunyale, BEd, MAEd (Dar)
E. Kabelege, BAEd, MA (Dar)
L. S. Misana, BAEd, MAEd (Dar)
R. Mwambalasa, BAEd, MAASP (Dar)
T. Mligo, Bsc, MEd (Dar)

Tutorial Assistants

*A. B. Joseph, BEd (Dar)
B. S. Rwimo, BEd (Dar)
I. M. Miwa, BEd (Dar)
A. K. Makinda, BAEd (Dar)

Department of Educational Foundations, Management and Lifelong Education

Lecturer and Head

K. Fulgence, Dip (Chang'ombe), BEd, (MBA) (Dar), PhD (Siegen)

Senior Lecturer

C. I. Raphael, Dip (Mpwapwa), BEd, MEMA (Dar), PhD (Dublin)

M. Bilinga, BAEd, MAEd, PhD (Dar)

Lecturers

C. L. Chua, Dip (Morogoro) BAEd, MAEd, PhD (Dar)

C. Swai, BEd, MEd, PhD (Dar)

D. Fumpuni, BAEd, MAEd, PhD (Dar)

J. J. Kayombo, BEd (Dar), MEd (Shanghai), PhD (Beijing)

J. L. Manase, MEd, PhD (Dodoma)

K. Fulgence, Dip (Chang'ombe), BEd, (MBA) (Dar), PhD (Siegen)

P. J. Urio, Dip (Korogwe), BEd, MAEd, PhD (Dar)

P. Kavenuke, BEd (Dar), MEd. (Shanghai), PhD (Beijing)

O. Bethwel, BEd, MAEd (Dar), PhD (Changchun)

H. Mfaume, BEd, MAEd, PhD (Dar)

Assistant Lecturers

*A. Mwakitalu, BEd, MEMA (Dar)

*C. Nziku, BAEd, MEMA (Dar)

G. Shoo, Dip (Mpwapwa), BEd, MEMA (Dar)

R. Mgya, BA, MA (Dar)

*A. Selemani, BAEd, MAEd (Dar)

G. Kihwele, BEd, MAEd (Dar)

H. Moyo, BAEd (Dar), MAEd (Liverpool)

T. Shukrani, BEd, MEMA (Dar)

Tutorial Assistant

*G. V. Mpiluka, BEd (Dodoma)

FACULTY OF HUMANITIES AND SOCIAL SCIENCES

Senior Lecturer and Dean

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Lecturer and Associate Dean

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Department of Geography and Economics

Lecturer and Head

E. Mcharo, BA, MA (Dar), PhD (Nairobi)

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A. A. Kinyondo, BA (Namibia), MA (Botswana), PhD (Monash)

E. Mwita, BA, MA (Dar), PhD (Bonn)

Lecturers

D. Sabai, BA (Dar), MSc (Netherlands), PhD (Rhodes)

A. E. Songoro, BA, MSc (Dar), PhD (Giessen)

J. W. Mngumi, BA, MA (Dar), PhD (Glasgow)

E. Paul, BA, MA, PhD (Dar)

E. Kwayu, BA, MA (Dar), PhD (Leeds)

A. B. Safari, BA, MA (Dar)
G. Hinju, BA, MA, PhD (Dar)

Assistant Lecturers

*M. Kauky, BA, MA (Dar)
*N. Nthangu BA, MA (Dar)
D. A. Lukiko, BA, MA (Dar)
S. Jumanne, BSc, MA (Dar)
*N. Msenda, BA, MA(Dar)
*A. Miho, BA, MA (Dar)
*J. Ngondo, BA (Dar), MSc (Nairobi)
*M. Juvenary, BA (Dar), MSc (Nairobi)
*B. Ally, BA (Dar)
*S. Lwiza, BA, MA (Dar)
*M. Joseph, BA, MA (Dar)
*L. Robert, BA (Morogoro), MA (Dar)
D. F. Peter, BA, MA (Dar)

Department of Languages and Literature

Lecturer and Head

L. Philip, BAEd, MA, PhD (Dar)

Associate Professor

A. Lusekelo, BAEd, MA (Dar), PhD (Gaborone)

Senior Lecturers

M. Samwel, BAEd, MA, PhD (Dar)
D. Goodness, BAEd, MA, MSc (Aston), PhD (Dar)
R. Ndomba, BAEd, MA (Dar), PhD (Dublin)

Lecturers

B. Lema, BAEd, MA, PhD (Dar)
R. J. Mbijima, BAEd, MA, PhD (Dar)
M. Zacharia, BAEd, MA (Dar), PhD (Beyreuth)
F. Mwendamseke, BAEd, MA, PhD (Dar)
L. Mpalanzi, BAEd, MA
E. Bwana BA, MA (Bayreuth) PhD (Dar).
J. Manyasa, BA, MA, PhD (Dar)
N. Nelius, BA, MA, PhD (Dar)
D. Mosha, BAEd (Dar), MA (Nairobi), PhD (Dar)
L. Kombe, BAEd, MA, PhD (Dar)
M. Kibiki, BAEd, MA PhD(Dar)

Assistant Lecturers

F. Pangani, BA, MA(Dar)
R. Ndimbo, BA, MA (Dar)
M. Kassimu, BAEd, MA (Dar)
H. Masebo, BAEd, MA (Dar)
*C. Constantine, BA, MA(Dar) (Grenoble)
*O. Simile, BA, MA (Dar)
*A. Chipalo, BAEd, MA, (Dar)
*M. Israel, BA (Dar), MA (Beau)
S. Misozi, BA (Dar), MA (Beau)
*S. S. Bichwa, BA, MA (Dar)
*E. Ilonga BAEd, MA (Dar)

Y. Lukinga, BAEd, MAEd (Dar)
E. J. Mkunde, BAEd MAEd (Dar)
S. Msovera, BAEd, MA (Dar)
D. Atupelye, BAEd, MA (Dar)
*D. Mwasunda, BA, MAEd (Dar)
*J. Simeo, BA, MAEd (Dar)
M. Kapingu, BAEd, MAEd (Dar)
K. Mdoe, BAEd, MA (Dar)
S. M. Kiula, BAEd, MA (Dar)
Y. Mung'anya, BAEd (Mwanza), MA (Dar)
J. E. Lameck, BAEd, MA, (Dar)
S. Champunga, BAEd, MA. (Dar)
G. Kitundu, BEd, MA (Dar)
F. Hamidu, BAEd, MA (Dar)

Tutorial Assistants

*C. Shao, BEd (Dar)
E. Kaswahili, BAEd (Dar)
A. Sadiki, BAEd (Dar)

Department of History, Political Science and Development Studies

Lecturer and Head

F. J. Mateng'e, BA, MA, PhD (Dar)

Senior Lecturers

A. S. Msellemu, BA, MA, PhD (Moscow)
E. Babeiya, BA, MA, PhD (Dar)

Lecturers

F. J. Mateng'e, BA, MA, PhD (Dar)
A. Mazigo, BA, MA (Dar), PhD (Stellenbosch)
J. S. Kihamba, BA, MA, (Dar)
C. Masawe, BA, MA (Dar), PhD (London)
S. Mhajida, BAEd., MA (Dar), PhD (Goettingen)
M. Mwaihuti, BA, MA, PhD (Dar)
N. K. Ngullu, BAEd, MA (Dar), PhD (Goettingen)
Q. Kigume, BA, MA, PhD (Dar)
R. S. Peter, BA, MA, PhD (Dar)

Assistant Lecturers

*E. Kihongo, BAEd, MA (Dar)
Y. A. Vokalavene, BAEd, (Dar), MA (London)
Y. Yuli, BA, MA (Dar)
*N. Shiyo, BA (Dar), MA (Morogoro)
*S. Dini, BA, MA (Dar)
G. Magoti, BA (Dar), MA (Morogoro)
*C. Masabo, Dip (Marangu), BA (Dar), MA (PAU/UYII), Mphil (NTNU)
*H. Mtanda, BA, MA (Dar)
*H. Alfani, BAEd, MA (Dar)
S. Mtabazi, BA, MA (Dar)
*S. Ayo, BAEd, MA (Dar)
*P. Emmanuel, BA, MA (Dar)
*S. Mwakalinga, BA, MA (Dar)

H. A. Kapuya, BA, MA (Dar)
*A. Kerindo, BAEd, MA (Dar)
B. Misana, BAEd, MA (Dar)

Tutorial Assistants

H. Balalu, BAEd (Dar)

FACULTY OF SCIENCE

Senior Lecturer and Dean

D. S. Kacholi, BSc (Morogoro), MSc (Dar), PhD (Germany)

Lecturer and Associate Dean

J. T. Zacharia, BSc, MSc (Dar), PhD (Kobe)

Administrative Officer

F. Antto, BA

Office Secretary

D. Mfinanga, Dip (TPSC)

Department of Biological Sciences

Lecturer and Head

F. Mwingira, BSc, MSc (Dar), PhD (Basel)

Senior Lecturer

D. S. Kacholi, BSc (Morogoro), MSc (Dar), PhD (Germany)

J. S. Bakuza, BSc, MSc (Dar), PhD (Glasgow)

Lecturers

N. Mogha, BSc (Dar), MSc (Addis Ababa), PhD (Bonn)

F. Mwingira, BSc, MSc (Dar), PhD (Basel)

M. Mgendi, BSc, MSc, PhD (Dar)

S. Nkya, BSc, MSc (Dar), PhD (Dar)

F. Mkonyi, BSc, MSc (Dar), PhD (Arusha)

D. Joseph, BSc, MSc, PhD (Dar)

L. Mulamula, BSc, MSc, PhD (Dar)

R. Alex, BSc, MSc (Dar), PhD (Arusha)

O. John, BSc, MSc (Dar), PhD (Dar)

M. January, BSc (Dar), MSc (Kyoto)

Assistant Lecturers

H. A. Mvungi, BSc, MSc (Dar)

H. Kangusi, BSc (Dar), MSc (Dar)

E. Erasto, BSc (Dar), MSc (China)

*U. Mustafa, BSc, MSc (Dar)

*I. Makombe, BSc, MSc (Dar)

Tutorial Assistants

M. Hassan, BSc (Dar)

Laboratory Scientists II

G. Muwe, Dip (DIT), BSc (Dar)

J. C. Mgaka, FTC (DIT), BSc (OUT)

Laboratory Scientists II

E. J. Kilumile, BSc. (Morogoro)

A. Idrissa, Dip, BSc (DIT)

Laboratory Technician II

E. Alphonce, Dip (ATC), BSc (DIT)

Department of Chemistry

Senior Lecturer and Head

D. Shilla, BSc (Dar), MSc (UB), PhD (Ryukyus)

Senior Lecturers

J. Mbuna, BSc, MSc (Dar), PhD (Okayama)

D. Shilla, BSc (Dar), MSc (UB), PhD (Ryukyus)

S. Mlowe, BSc, MSc, PhD (Dar)

Lecturers

J. T. Zacharia, BSc, MSc (Dar) PhD (Kobe)

E. Mbukwa, BSc (Dar), M.Phil. (UB), PhD (Johannesburg)

F. Hamad, BSc, MSc (Dar), PhD (Gent)

J. Mgaya, BSc, MSc, PhD (Dar)

A. Kitalika, BSc, MSc (Dar), PhD (Arusha)

S. John, BSc, MSc (Dar), PhD (China)

M. Petro, BSc, MSc (Dar), PhD (China)

Assistant Lecturers

S. Mtavangu, BSc, (Dar), MSc (Arusha)

P. Lucas BSc, (Dar), MSc (Arusha)

F. Olambo, BSc, MSc (Dar)

E. Nkotya, BSc (Dar), MSc (Hungary)

Laboratory Scientist II

A. S. Tengeza, Dip, BSc (DIT)

Senior Laboratory Technician II

S. A. Ndembo, Dip (DIT)

Laboratory Technician II

A. I. Pemba, Dip (DIT), BSc (Dar)

Laboratory Assistant

T. K. Malita, Cert (VETA)

Department of Physics, Mathematics and Informatics

Lecturer and Head

G. G. Mwangi, BSc (Dar), MSc (South Africa), PhD (LUT)

Lecturers

G. G. Mwangi, BSc (Dar), MSc (South Africa), PhD (LUT)

J. Mpele, BSc (Dar) MSc (Nairobi), PhD (Arusha)

Y. Msambwa, BSc, MSc, PhD (NTU)

Z. Mussa, BSc, MSc (Dar), PhD (LUT)

T. Sagamiko, BSc, MSc, PhD (Dar)

F. Chuma, BSc, MSc (Dar), PhD (Arusha)

E. Ngailo, BSc, MSc, PhD (Dar)

M. Ryoba, BSc, MSc (Dar), PhD (China)
D. Mukama, BSc, MSc (Dar), PhD (China)
H. A. Sultan, BSc, MSc (Dar), PhD (China)

Assistant Lecturers

E. Maloda, BSc, MSc (Dar)
*F. Lolila, BEd, MSc (Dar)
*H. H. Mwanyika, BSc, MSc (Dar)
*J. Chiuyo, BSc, MSc (Dar)
*E. Yohana, BSc (Dar), MSc (Witwatersrand)
*F. Kapile, BSc, MSc (Dar)
*M. Lusato, BSc, MSc (Dar)
*S. Semba, BSc, MSc (Dar)
*S. Amos, BSc, MSc (Dar)
*Y. Mnyawani, BSc, MSc (Dar)
D. E. Safari, BSc, MSc. (Dar)
L. John, BSc (Dar), MSc (Arusha)
C. Samson, BSc (Morogoro), MSc (Germany)
A. Okey, BSc (Dar), MSc (Arusha)
A. Reuben, BSc (Dar), MSc (Arusha)
C. C. Ngirwa, BSc (Dar) MSc (Arusha)
L. Pascoe, BSc (Dar), MSc (Arusha)
R. O. Ndabhiama, BSc, MSc (Dar)
A. Lighuda, BEd (MWUCE), MSc (Dar)
B. Mvungi, BSc (Dar), MSc (Japan)
M. E. Phillipo, BSc (SJUIT), MSc (China)
Z. E. Moshi, (Loyola), MSc (Arusha)

Tutorial Assistants

*S. Juma, BSc (Dar)
E. Panja, BSc (Dar)
F. Mbuya, BSc (Dar)

Senior Laboratory Technician II

S. Isafu, Dip. (DIT), BECE (SJUIT)
A. Makawa, Dip, BSc (DIT)

Laboratory Technician I

A. O. Mwinuka, Dip (DIT)

Laboratory Technician I

A.P. Msyani, Dip (ATC)

College Library

Lecturer and Director

L. Mkonongwa, Dip (Morogoro), BAEd, MA (Dar), PhD (Dublin)

Assistant Librarians

F. Ernest, BA (Botswana), MA (Dar)
D. H. Danda, BSc (UCLAS), MA (Dar)
P. Kayungi, Dip (Morogoro), BEd. (PESC), MA (Dar)
E. E. Mallya, BSc (Makerere), MA (Dar)

* On Study Leave

**On Sabbatical Leave

***On Leave of Absence/Secondment

INTRODUCTION

Mkwawa University College of Education (MUCE) is located in the Southern Highlands of Tanzania, in Iringa Municipal, about 3 kilometres from Iringa town centre. MUCE was established as a constituent college of the University of Dares Salaam (UDSM) on the 1st of September 2005 by upgrading the former Mkwawa High School, in response to the growing demand of teachers. It was upgraded to a constituent college of the University of Dar es Salaam by order Section 55 (1) of the University of Dar es Salaam Act No. 12 of 1970 and published on 22nd July 2005 on the Government Notice No. 2003.

MUCE consists of three Faculties, i.e. Faculty of Education (FoED), Faculty of Humanities and Social Sciences (FoHSS), and Faculty of Science (FoSC). Candidates admitted into the College pursue undergraduate and postgraduate degree programmes in Science and Arts.

STUDENTS' GENERAL INFORMATION

Administration

MUCE Students' Administration is headed by the Office of the Dean of Students which deals primarily with personal and social welfare aspects of students' life. The following facilities are provided by the office of the Dean of Students: accommodation, games and sports, spiritual and student counselling in various problems, as well as career guidance and counselling. The Office of the Dean of Students also assists the Deputy Principal- (Administration) in students' disciplinary matters.

Accommodation

A limited number of rooms in the halls of residence are available on application before the beginning of the academic year. Accommodation in the Halls is therefore not guaranteed for every student. Students are urged to find their own accommodation outside the campus.

Payment for accommodation is made through Government Electronic Payment Gateway (GePG) by using Control Numbers. No student will be given a room in the Halls of Residence until s/he has paid the prescribed rent. Priority for on-campus accommodation will be given to students with disabilities, foreign students and female first year students. Currently, the price per student per day is TZS 800.00 x 120 days per each semester. In addition, students are required to pay accommodation caution money of TZS 10,000.00 payable once during the first year.

Students' Activities

Most of the students' activities are organized by the students' union (**DARUSO-MUCE**). The students' organization is concerned with the students' academic, political, social and recreational activities. Students are encouraged to form academic/professional organizations. They are also encouraged to form and join social organizations that have been registered. New social and academic organizations are registered with the Office of the Dean of Students.

Catering

The College offers cafeteria services for all meals to students at subsidized prices. The meals are paid for at the cafeteria counters. The College has two cafeterias on the campus and few canteens (Food vendors) near Hall VI which have the capacity to serve the present student population.

Medical Services

MUCE owns and operates a Health Centre which provides medical and health care services to students, staff members, staff families and to the general public. The Health Centre is located within the College campus and operates for 24 hours. There are two ward wings, for male and female patients, with a 24 bed capacity. Students who report at the Health Centre for treatment are required to produce NHIF identity cards, which can also be obtained at college at a cost of TZS 50,400.00 per year.

College Library

MUCE Library is an academic unit which is an integral part of the College in pursuit of its mission, that is: teaching, research and consultancy. The primary role of the Library is to provide information services to support teaching, learning and research functions of the academic and research community.

Library Opening Hours

| | | | |
|------------|---|----------|----------|
| Semesters: | Monday – Saturday | 08.00 am | 06.30 pm |
| | | 07.30 pm | 10.00 pm |
| | Sundays | 02.30 pm | 06.30 pm |
| | | 07.30 pm | 10.00 pm |
| | Public Holidays | 02.30 pm | 10.00 pm |
| | | 07.30 pm | 10.00 pm |
| Vacation: | Monday – Friday | 08.00 am | 04.00 pm |
| | Saturdays | 08.00 am | 03.00 pm |
| | Sundays & Public Holidays <i>Closed</i> | | |

POSTGRADUATE PROGRAMMES OFFERED MUCE offers seven postgraduate programmes as shown in the table below:

| S/N | Programme Title | Mode of Delivery | Programme Status | Duration | Tuition Fees | |
|-----|---|------------------------------|------------------|-----------|-----------------|---------------------|
| | | | | | Tanzanian (TZS) | Non-Tanzanian (USD) |
| 1. | Postgraduate Diploma in Education | Coursework and Project Paper | Evening | 12 months | 2,600,000 | 3,075 |
| 2. | Master of Science with Education (Biology & Chemistry Stream) | Coursework and Dissertation | Full-time | 24 months | 4,250,000 | 6,150 |
| 3. | Master of Science in Applied Zoology | Thesis | Full-time | 24 months | 4,250,000 | 6,150 |
| 4. | Master of Science in Applied Botany | Thesis | Full-time | 24 months | 4,250,000 | 6,150 |
| 5. | Master of Science in Mathematical Modelling | Coursework and Dissertation | Full-time | 24 months | 4,250,000 | 6,150 |
| 6. | Master of Science in Natural Resources and Human Security Studies | Coursework and Dissertation | Full-time | 24 months | 4,000,000 | 6,150 |
| 7. | Master of Arts with Education (Geography Stream) | Coursework and Dissertation | Full-time | 24 months | 4,000,000 | 6,150 |

**FACULTY OF EDUCATION (FOED)
POSTGRADUATE DIPLOMA IN EDUCATION (PGDE)**

1. Introduction

The Postgraduate Diploma in Education (PGDE) which is offered by evening mode is aimed at those who intend to work or are already working within the education sector and wish to join the teaching profession. The programme leads to certification in the teaching profession equivalent to BSc. Ed, BAEd or BED degrees. The PGDE (Evening) programme in particular is offered flexibly to individuals who wish to develop a career in teaching, but they are unable to attend a regular similar full-time programme due to time constraints or work demands. This programme is, therefore, unique in that it makes it possible to combine work and studies.

2. How the Programme is Offered

The focus of the programme is on demagogical competencies and understanding of philosophy and foundations of education, as entrants are expected to have undergone training in their subject content area during their undergraduate or advanced diploma studies. The programme will be offered through interactive sessions covering a wide range of issues in education. The underlying aim is to develop candidates as reflective and highly skilled teachers in their subject areas of specialisations. The programme will be offered during evening hours from 5.00 p.m. and during weekends and public holidays. Typical learning sessions will consist of lectures, seminars, guest lectures and practicum in teaching sessions. Students will be encouraged to engage in recent debates and literature in education to inform their studies and arguments presented in various assignments.

3. Assessment and Evaluation

Students will be assessed in this particular programme using different modalities including: assignments, seminars and presentations, research papers, examinations (quiz, test and examinations). The grading in the course shall be in accordance with the rules and regulations of the postgraduate programmes of UDSM; in which the coursework constitutes 50% and the final examination 50% unless stated otherwise.

4. Programme Structure and Content

The structure and content of the Postgraduate Diploma in Education (Evening) Programme consists of 168 credits distributed into core courses (120 credits), practicum in teaching (24 credits), field report (24 credits) and electives (24 credits) offered flexibly during evening hours, on weekends and public holidays. To be able to graduate, a candidate must accumulate a minimum of 168 credits, and should not exceed 180 credits. The list of the courses is as shown in Table 3.

Table 3: List of Post Graduate Diploma in Education Core Courses

| Semester I | | | Semester II | | |
|-------------|---|---------|-------------|---|-----------|
| Course Code | Course Title | Credits | Course Code | Course Title | Credits |
| CT 501 | Principles of Curriculum Development and Teaching | 12 | CT 509 | Classroom Interaction and Research | 12 |
| EP 500 | Introduction to Educational Psychology | 12 | CT 512 | Didactics | 12 |
| EF 500 | Principles of Education | 12 | EP 503 | Educational Assessment and Evaluation | 12 |
| EF 502 | Research Methods in Education | 12 | EA 500 | Management of Education and School Administration | 24 |
| | Elective I | | CT 523 | Practicum in Teaching | 24 |
| | | | | Elective II | 24 |
| | | | EF 599 | Field Report | 12 |

**FACULTY OF HUMANITIES AND SOCIAL SCIENCES (FOHSS)
MASTER OF ARTS WITH EDUCATION (GEOGRAPHY)**

1. Programme Objectives and Philosophy

The Master of Arts with Education (MA(Ed)) is designed for Geography educators who want to further develop subject mastery and pedagogical, scholarly, research and leadership abilities through in-depth study in theory and practice. In Tanzania, and other surrounding countries, there is awareness about the importance of highly skilled teachers in improvement of education sector. As identified in the Tanzania Vision 2025, high level of quality education and knowledge is important to respond to development challenges. This programme is designed to prepare a person who wishes to pursue advanced professional development in the content and pedagogy of Geography education (e.g. a teacher in Geography, a community-based specialist, curriculum consultant or advocate in Geographical issues). For individuals who wish to continue working in teaching profession, this 24-month degree programme provides a basis through which a graduate will become a qualified teacher in both content and pedagogy. The philosophy therefore is training for the improved social transformation.

2. Entry Requirements

A candidate shall be deemed eligible for consideration for admission to a Master of Arts with Education Programme if he/she has one of the following:

- i. First degree in education [e.g. BA Ed., BEd (Arts) or BSc (Ed.) degrees] from any recognised University with at least a lower second GPA of not less than 2.7 or its equivalent. One has to have studied Geography in the undergraduate degree. OR
- ii. First degree in BA (Geography and Environmental Studies) and others of that trend plus a Postgraduate Diploma in Education (PGDE) from any recognised institution with at least an average pass of B in their final University Examination.

3. Expected Learning Outcomes

A graduate of Master of Arts with Education will have well developed skills in:

- i. teaching Geography in secondary schools, colleges and universities;
- ii. applying education principles, approaches and theories in improving teaching and learning processes;
- iii. assessing and analyzing various theories, principles and concepts related to education and Geography;
- iv. identifying and analyzing challenges that constraint education sector in Tanzania and beyond;
- v. identifying opportunities to strengthen education sector and enhance performance of students in schools and colleges;
- vi. doing research on education and Geography which will contribute to new theoretical insights and practical approaches to education and promote scholarly publications; and
- vii. planning, managing and analyzing educational policies, programmes and projects.

4. Nature of the Programme

The programme consists of coursework and dissertation which lasts for 24 months where three semesters will be for coursework and the last semester is for proposal, data collection and report writing.

5. Methods of Instruction

The programme involves various instructional methods including; lectures and discussions, practicals, assignment, seminar, presentations, independent studies and excursions.

6. Assessment and Evaluation

Students will be assessed in this particular programme using different modalities including: assignments, seminars and presentations, research papers, and examinations (quiz, test and exams).

The grading in the course shall be in accordance with the rules and regulations of the postgraduate programmes of UDSM; in which the coursework constitutes 50% and the final examination 50% unless stated otherwise.

7. List of Courses

The description of courses is summarised in the Table 4

| Year | Semester I | | | | |
|------|--|---|-----------------|-----------|------------|
| | Course Code | Title | Status | Credits | |
| 1 | GE 630 | Geographic Thought | Core | 12 | |
| | GE 631 | Climate Change and Human Adjustments | Core | 12 | |
| | CT 600 | Curriculum and Teaching | Core | 24 | |
| | <i>A Student will choose 24 Credits from the following</i> | | | | |
| | EP 603 | Psychology of Child Development | Elective | 24 | |
| | EP 604 | Theories of Teaching and Learning | Elective | 24 | |
| | AE 601 | Open and Distance Learning | Elective | 24 | |
| | GE 628 | Population, Resources and Environment | Elective | 12 | |
| | GE 641 | Environmental Disaster Management and Sustainable Human Development | Elective | 12 | |
| | | Total | | | 72 |
| | Semester II | | | | |
| | EF 601 | Comparative Education | Core | 24 | |
| | GE 634 | Spatial Development Theories and Environmental Resources Management | Core | 12 | |
| | GE 633 | Applied Geographical Information Systems | Core | 12 | |
| | GE 632 | Geographical Research Methods | Core | 12 | |
| | <i>A Student will choose 12 Credits from the following</i> | | | | |
| | GE 637 | Tourism and Development | Elective | 12 | |
| | GE 643 | Water Resources, Planning and Management | Elective | 12 | |
| | GE 644 | Environment, Food and Development | Elective | 12 | |
| | Total | | | 72 | |
| 2 | Semester I | | | | |
| | GE 645 | Strategic Urban Environmental Management | Core | 12 | |
| | EA 601 | Policy, Planning and Administration | Core | 24 | |
| | GE 636 | Integrated Natural Resources Management | Core | 12 | |
| | <i>A Student will choose 24 Credits from the following</i> | | | | |
| | EA 603 | Educational Planning and Financing | Elective | 24 | |
| | PE 601 | Youth and Sports Development | Elective | 24 | |
| | CT 607 | Advanced Curriculum Development | Elective | 24 | |
| | GE 635 | Environmental Conservation Policies and Strategies | Elective | 12 | |
| | GE 640 | Urban Planning and Management in a Globalizing World | Elective | 12 | |
| | GE 642 | Medical Geography | Elective | 12 | |
| | | Total | | | 72 |
| | | Semester II | | | |
| | | MA 699 | Research Report | Core | 12 |
| | Grand Total | | | | 228 |

Master of Science in Natural Resources and Human Security Studies (MSc. NRHSS)

1. Programme Objectives and Philosophy

The programme aims at providing skills and knowledge that integrate natural resources and human security. It builds capacity on conflict mediation and resolution emanating from natural resources exploration, extraction, use and marketing in order to meet the human resource demands in the government, research institutions and natural resource exploitation firms in Tanzania and beyond for sustainable natural resource use and human security.

2. Entry Requirements

A candidate shall be eligible for admission to this programme if he/she has any of the following qualifications:

- i. A minimum GPA of 2.7 in the Bachelor's degree in any of the following subjects: Geography, Hydrology, Ecology, Biology, Economics, Forestry or Wildlife Management, Agricultural Science, Natural Resource Management, Geology, Community Development and Environmental Science.
- ii. A postgraduate diploma in a related discipline.

3. Expected Learning Outcomes

At the end of the course, students are expected to be able to:

- i. Analyse the relationship between natural resources and human security
- ii. Examine practices in key natural resource conservation,
- iii. Analyse possible conflicts in natural resource utilisation and propose feasible mitigation measures
- iv. Evaluate spatial fixes in natural resource management.

4. Nature of the Programme

The programme consists of coursework and dissertation which lasts for 18 months where two semesters will be for coursework and the last semester is for proposal, data collection and report writing.

5. Methods of Instruction

The programme involves various instructional methods including; lectures, practicals, assignment, seminar, presentations, independent studies, excursions.

6. Assessment and Examinations

Students will be assessed in this particular programme using different modalities including: assignments, seminars and presentations, research papers, and examinations (quiz, test and exams).

The grading in the course shall be in accordance with the rules and regulations of the postgraduate programmes of UDSM; in which the coursework constitutes 50% and the final examination 50% unless stated otherwise.

7. List and Description of Courses

The description of courses is summarised in the Table below:

| Year | Semester I | | | |
|--------|--|--|----------|------------|
| 1 | Course Code | Title | Status | Credits |
| | HG 600 | Perspectives on Natural Resources Management and Human Security | Core | 12 |
| | HG 603 | Natural Resources Impact Assessment | Elective | 12 |
| | HG 606 | Institutional Frameworks on Natural Resources and Human Security | Core | 12 |
| | HG 607 | Food and Human Security | Elective | 12 |
| | HG 609 | Climate Change, Resources and Human Security | Core | 12 |
| | HG 610 | Vulnerability, Risk and Resilience | Elective | 12 |
| | <i>In addition to core courses, a student has to take 2 elective courses</i> | | | |
| | Semester II | | | |
| | HG 601 | Natural Resources, Disaster and Human Security | Elective | 12 |
| HG 602 | Research Design in Natural Resource and Human Security Studies | Core | 12 | |
| HG 604 | Applied Remote Sensing and Geographical Information Systems in Natural Resources and Human | Core | 12 | |
| HG 605 | Natural Resource, Public Health and Human Security | Elective | 12 | |
| HG 608 | Population Dynamics, Resources and Human Security | Core | 12 | |
| HG 611 | Project Planning, Monitoring and Evaluation in Natural Resources and Human Security | Elective | 12 | |
| HG 612 | Environmental Economics and Human Security | Elective | 12 | |
| | | | | |
| 2 | Semester I & II | | | |
| | HG 699 | Dissertation | Core | 60 |
| | Grand Total | | | 180 |

FACULTY OF SCIENCE (FOSC)

Master of Science with Education

1. Programme Description

The MSc. (Ed.) programme is intended for graduate science teachers who want to expand scope and depth of their knowledge base in the major areas of natural science and mathematics, and advance their professional career as science teachers. In order to cater for the large number of science teachers, the programme is offered in the mode of course-work and dissertation and the duration is two years on a full-time basis and three years on part-time basis. The course-work programme component consists of science discipline-based and education courses. A candidate shall major in only one science (or mathematics) subject. The choice of courses and the specific contents has been made carefully, guided by results of a tracer and needs of the assessment report, to ensure fundamental concepts are not missed. The choice has also considered the specific content knowledge base that is necessarily required for effective science/mathematics teaching.

2. Entry Requirements

Admission into the programme will be in accordance with the University of Dar es Salaam regulations regarding postgraduate studies. Candidates applying for the MSc. (Ed.) programme should hold BSc. (Ed.) or B.Ed. (Science) degrees from a recognized institution. Graduates from non-education science degree programmes, or equivalent qualifications will be required to undertake a postgraduate diploma in Education as a prerequisite programme prior to admission into the MSc(Ed) programme.

3. Programme Structure

The MSc. (Ed.) is a taught programme comprising coursework and dissertation, and the duration shall be twenty-four months (2 years) for full-time students and thirty-six months (3 years) for part-time students. Coursework will run over a period of two semesters of 15 teaching weeks each, with final examination at the end of each semester. The second year shall be devoted to research and writing dissertation. During the second semester of the first year, students will be required to develop research proposals detailing the theoretical background and methodology, as a preparation for research and dissertation work.

The coursework programme consists of science discipline-based and science education courses. The science education component will be offered by SoED. Science discipline-based courses comprise basic sciences, namely Biology (BL), Chemistry (CH), Physics (PH) and Mathematics (MT), in which a candidate shall major in only one of these subjects. Some of the science courses are drawn from among those offered in the existing MSc programmes in the respective Departments of the College of Natural and Applied Sciences. In essence, there will be four streams, namely, BL/Ed, CH/Ed, PH/Ed and MT/Ed.

A student is required to take a minimum number of 144 credits (consisting of both core and elective courses) during the coursework year and 72 credits for dissertation during the second year. Therefore, the minimum number for a candidate to graduate is 216 credits. A candidate must pass both the course-work and dissertation to qualify for the degree award.

4. List of Courses

Core Courses

| Course Code | Course Title | Credits | Semester |
|--------------|-----------------------------------|-----------|----------|
| FE 600 | Research Methods in Education | 24 | I |
| EP 604 | Theories of Teaching and Learning | 24 | |
| CT 605 | Computer Assisted Learning | 24 | II |
| Total | | 72 | |

Education Courses

Elective Courses

| Course Code | Course Title | Credits | Semester |
|-------------|---|---------|----------|
| CT 600 | Curriculum and Teaching* | 24 | I |
| CT 603 | Professional Development in SMT* | 24 | |
| CT 604 | Assessment of Performance in SMT* | 24 | II |
| EA 607 | Management of Education Systems and Institutions* | 24 | |

Biology Stream

Core Courses

| Course Code | Course Title | Credits | Semester |
|-------------|-----------------------------------|---------|----------|
| ZL 604 | Protozoology and Helminthology | 12 | I |
| BL 617 | Molecular Biology | 12 | |
| BL 661 | Advanced Genetics | 12 | |
| BL 662 | Biological Methods and Techniques | 12 | II |
| BL 607 | Biostatistics | 12 | |

| | | | |
|--------------|---------------------|------------|--|
| BL 663 | Advanced Physiology | 12 | |
| BL 699 | Dissertation | 72 | |
| Total | | 144 | |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|--|---------|
| BC 604 | Aquatic Biodiversity and Conservation | 12 |
| BT 605 | Plant Protection | 12 |
| BL 668 | Soil/Plant Water Relations | 12 |
| BL 670 | Fauna and Flora of East Africa | 12 |
| ZL 612 | Animal Reproductive Physiology | 12 |
| ZL 616 | Insect Ecology, Pest and Vector Management | 12 |

Chemistry Stream

Core Courses

| Course Code | Course Title | Credits | Semester |
|--------------|--|------------|----------|
| CH 606 | Coordination Chemistry | 12 | I |
| CH 619 | Physical Chemistry | 12 | |
| CH 630 | Advanced Analytical Chemistry and Instrumentation | 12 | II |
| CH 618 | Structure, Properties and Applications of Polymers | 12 | |
| CH 651 | Chemistry of Biomolecules | 12 | |
| CH 699 | Dissertation | 72 | I & II |
| Total | | 132 | |

Elective Courses

| Course Code | Course Title | Credits |
|-------------|---------------------------------------|---------|
| CH 603 | Solid State Chemistry | 12 |
| CH 607 | Advanced Physical Organic Chemistry | 12 |
| CH 610 | Surface and Colloid Chemistry | 8 |
| CH 611 | Heterocyclic Chemistry | 8 |
| CH 613 | Advanced Environmental Chemistry | 8 |
| CH 616 | Chemistry of Natural Products | 12 |
| CH 394 | Fundamentals of Theoretical Chemistry | 12 |

Master of Science in Mathematical Modelling

1. Introduction

This is a regional programme in mathematical modelling designed to train staff in higher education and researchers from the industry. The programme consists of coursework and dissertation. The minimum credits required are 120 for the coursework part. The coursework covers two semesters (one year), followed by one year of dissertation (60 credits).

2. Entry Requirements

- i. At least a second-class degree with a GPA of not less than 2.7 from a recognised higher learning institution.
- ii. Candidate with a pass degree may also be considered for admission if:

- (a) Their undergraduate performance in the proposed subject of study was a B grade or higher; and
 - (b) They have satisfied the University regarding their academic potential through subsequent research experience and/or additional training.
- iii. Candidate with a coursework average of B+ or higher in a relevant Postgraduate Diploma may upgrade to registration for a dissertation leading to a relevant Master's Degree; and
 - iv. Holders of BSc (Ed) or BEd (Sc) degrees from a recognised institution, with a good background in Mathematics.

3. List of Courses

| Course Code | Course Title | Credits | Semester |
|--------------|---|------------|----------|
| MT 602 | Numerical Analysis | 12 | I |
| MT 619 | Applied Functional Analysis | 12 | |
| MT 663 | Ordinary Differential Equations | 12 | |
| MT 641 | Advanced Mathematical Statistics | 12 | |
| Elective | | 12 | |
| MT 631 | Stochastic Differential Equations | 12 | II |
| MT 683 | Partial Differential Equations Core | 12 | |
| MT 604 | Optimization Methods of Operations Research | 12 | |
| | Elective I | 12 | |
| | Elective II | 12 | |
| MT 699 | Dissertation | 60 | I & II |
| Total | | 180 | |

Elective Courses

| Course Code | Course Title | Credits | Semester |
|-------------|---|---------|----------|
| MT 601 | Advanced Probability Theory | 12 | II |
| MT 605 | Advanced Linear Algebra | 12 | II |
| MT 609 | Numerical Solution of PDEs | 12 | II |
| MT 610 | Complex Analysis | 12 | II |
| MT 628 | Mathematical Finance and Insurance | 12 | I |
| MT 640 | Numerical Linear Algebra | 12 | II |
| MT 643 | Statistical Inference | 12 | I |
| MT 644 | Stochastic Systems | 12 | II |
| MT 646 | Bayesian Sampling Methods | 12 | I |
| MT 647 | Fourier Analysis | 12 | I |
| MT 652 | Biomathematics | 12 | II |
| MT 659 | Measure Theory and Integration | 12 | II |
| MT 660 | Computer Programming | 12 | I |
| MT 664 | Graph Theory | 12 | I |
| MT 665 | Mathematical Packages for Scientific Computations | 12 | II |
| MT 672 | Fluid Dynamics I | 12 | I |

4. Assessment and Examinations

The programme consists of coursework and dissertation. The minimum credits required are 120 for the coursework part. The coursework covers two semesters (one year), followed by one year of dissertation (60 credits). The General University of Dar es Salaam and the College of Natural and Applied Sciences examination regulations governing the award of MSc degrees shall apply to the MSc Mathematical Modelling programme.

MASTER OF SCIENCE BY THESIS

Master of Science in Applied Botany and Master of Science in Applied Zoology

1. Introduction

MUCE offers a Master of Science in Applied Zoology and Master of Science in Applied Botany by Thesis.

2. Entry Requirements

The minimum qualification for admission into the programme is an upper second class Bachelor of Science in respective Science field from the University of Dar es Salaam or another other recognized higher learning institution.

3. Programme Structure

The registration period for the programme shall normally be 24 months. Registration for the programme shall be at the beginning of either semester I or II during the Academic Year. The registration shall be renewed annually. Further guidelines are as contained in the UDSM Postgraduate Guidelines.

4. Assessment and Examinations

Master of Science in Aquatic Sciences Programmes by thesis is run for not less than two years on a full-time basis. It is based on research only. The research part consists of proposal writing and thesis. External and internal examiners examine the thesis. To pass the candidate must score a minimum of grade B from the examiners. In addition, for a candidate to graduate from such programme, he/she must pass the *viva voce* examination with a grade not below B.

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