

# **MUHIMBILI UNIVERSITY OF HEALTH AND ALLIED SCIENCES**



**POSTGRADUATE PROSPECTUS  
2019/2020 – 2020/2021**



*The late President of Tanzania, Mwalimu Julius Nyerere officiating the establishment of the Faculty of Medicine in 1963 at Muhimbili*

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## VICE CHANCELLOR'S STATEMENT



I am delighted to introduce to you the postgraduate prospectus for the academic period 2019/2020 through 2020/2021, specifically devoted to competence-based education at Muhimbili University of Health and Allied Sciences (MUHAS). This prospectus provides you with a synopsis of postgraduate academic programmes offered by the University as well as key information that is intended to guide prospective and registered students of MUHAS. The prospectus outlines each programme and explains the criteria for student eligibility, examination rules and regulations and other special academic requirements for the competence-based education.

In total, MUHAS currently offers 68 postgraduate programmes to about 1,000 students. Highly trained and experienced faculty 344 staff in five schools and one institute administers the various academic programmes summarized in this prospectus. MUHAS also prides in seven directorates which carry out various functions and coordinate activities aimed at enabling MUHAS to implement its core functions of teaching, research and public service.

There are limited chances for enrollment at the University and admission is highly competitive. Therefore, we only manage to take a small proportion of the very best in the country. In addition to training Tanzanians, MUHAS also accepts short-term (elective/exchange students) and long-term international students from the region as well as from other continents all over the world.

It is my hope that you will find this prospectus resourceful. It is my pleasure to welcome you to this University if you have already chosen to study here and encourage prospective candidates to make the necessary preparations and apply to join MUHAS in future.

**Prof. Andrea B. Pembe**  
**Vice Chancellor**  
**Muhimbili University of Health and Allied Sciences**  
**Dar es Salaam - July, 2019**

## **SENIOR OFFICERS OF THE UNIVERSITY**

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Alhaji Ali Hassan Mwinyi (Former President of the United Republic of Tanzania)

### ***Chairman of the University Council***

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*This prospectus is published to guide students in the University during the academic years 2019/2020 through 2020/2021. The information in this publication is correct at the time of going to press, but all matters contained in the prospectus are subject to change from time to time both before and after students' admission.*

## **CHAPTER ONE: GENERAL INFORMATION**

### **1.1 INTRODUCTION**

The Muhimbili University of Health and Allied Sciences (MUHAS) is a successor to the Muhimbili University College of Health Sciences (MUCHS), which was a constituent College of the University of Dar es Salaam. MUCHS was established by an Act of Parliament, Act No 9 of 1991, when the then Faculty of Medicine was upgraded to a College. The Faculty of Medicine originated from the Dar es Salaam School of Medicine, which was established in 1963 by the Ministry of Health with the primary aim of training clinical health staff. In 1968, the Dar es Salaam School of Medicine was upgraded to a Faculty of Medicine of the Dar es Salaam University College of the University of East Africa. In 1970 it became a Faculty of Medicine of the University of Dar es Salaam. In 1976 the Faculty of Medicine was incorporated into Muhimbili Hospital to form the Muhimbili Medical Centre (MMC).

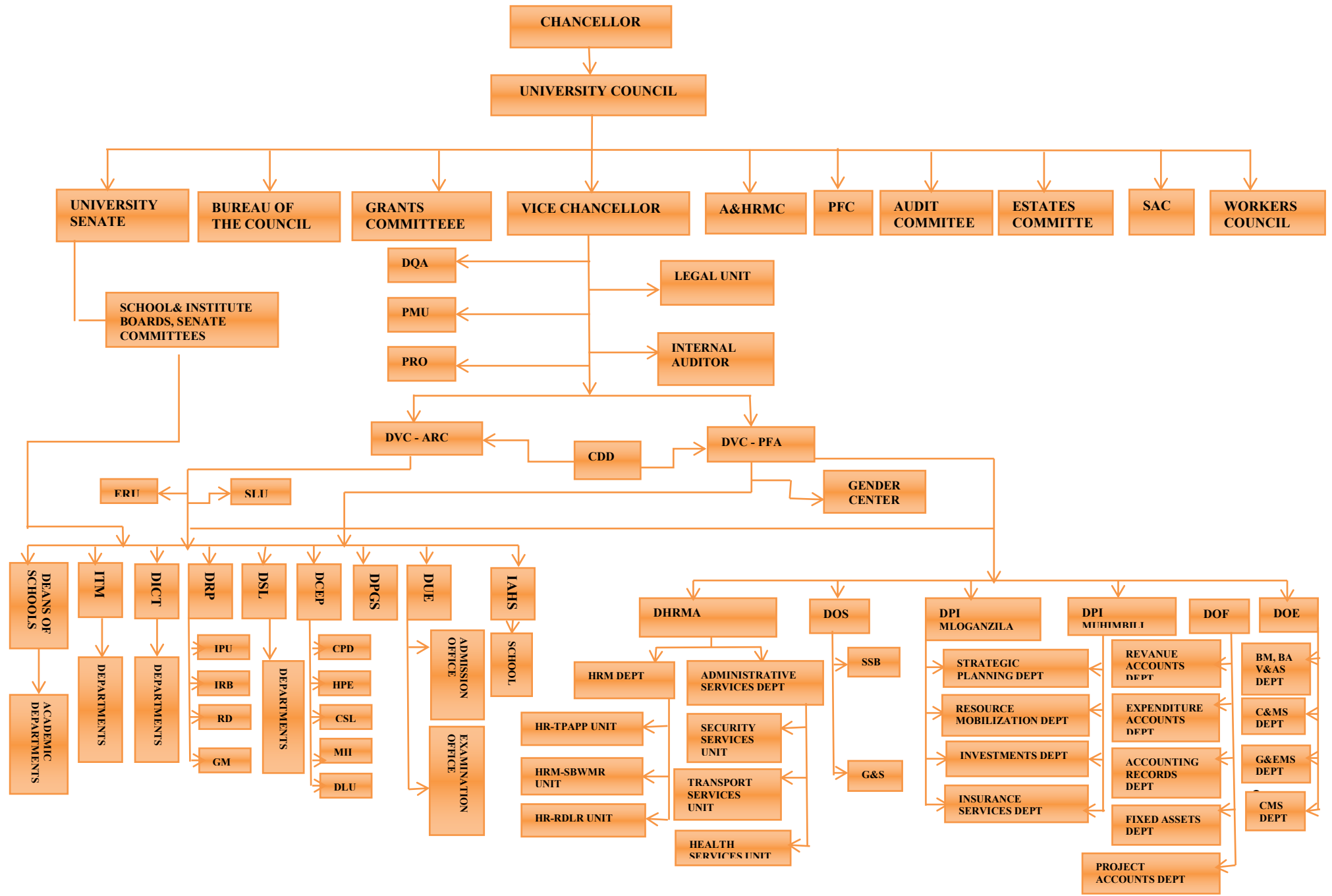
In 1991, the Faculty of Medicine was upgraded to a constituent College of the University of Dar es Salaam, with the aim of nurturing it to a full-fledged University. In 2000 the Government by Act of Parliament disestablished MMC and created two closely linked but autonomous public institutions; namely MUCHS and the Muhimbili National Hospital (MNH). Over the years MUCHS made significant achievements in terms of increased student enrollment and development of several new academic programmes. The Parliament Act No 9 of 1991 that established MUCHS was repealed in 2005. Subsequently, in the year 2007, MUHAS was established by Article 1 of the Charter of Incorporation, in line with the recommendations of the Tanzania Commission for Universities.

The objectives of the University are the advancement of knowledge, diffusion and extension of technology and learning, the provision of higher education and research and, so far as is consistent with those objectives, the nurturing of the intellectual, aesthetic, social and moral growth of the students at the University.

MUHAS has two campuses; Muhimbili Campus and Mloganzila Campus. Muhimbili Campus is situated in Ilala Municipality, in Upanga along United Nations Road. Mloganzila Campus is still new and in the process of development. It occupies 3,800 acres and is located 3 km off Dar es Salaam-Morogoro highway, 25 km from Dar es Salaam city centre. MUHAS has other facilities including the Bagamoyo Teaching Unit at Bagamoyo and 100 acres of land at Kihonda, 8 km from Morogoro Municipality along Morogoro-Dodoma road. These two premises are utilized for fieldwork during Community rotations and other academic and research activities.

MUHAS has 68 postgraduate (Master and PhD) programmes which are offered in the five schools and one Institute. The programmes are presented in the prospectus under the respective academic units and detailed in the individual programme documents available in the Schools and Academic Institute. The office of Directorate of the Postgraduate Programmes under the Deputy Vice Chancellor - Academic, Research and Consultancy coordinates teaching of all academic programmes while the office of Deputy Vice Chancellor - Planning, Finance and Administration coordinates planning, administrative and human resource matters. The Directorates of Information Communication and Technology (ICT) and Library Services provide crosscutting support to all University units in information management.

## 1.2 MUHAS ORGANISATION STRUCTURE



### **1.3 LIST OF ACADEMIC PROGRAMMES AND HONORARY AWARDS**

#### **1.3.1 UNIVERSITY LEVEL: HONORARY AWARDS**

- (i) Doctor of Science (DSc. hc)
- (ii) Doctor of Letters (Litt.D)
- (iii) Doctor of Humane Letters (D.H.L) or (LH.D)
- (iv) Doctor of Humanities (Humanist. D)
- (v) Doctor of Pedagogy (Ped.D)
- (vi) Doctor of Public Health (D.P.H.)
- (vii) Doctor of Hygiene (D.H. hc)

#### **1.3.2 SCHOOL OF MEDICINE**

##### **Master of Science**

- (i) Anatomy (MSc Anatomy)
- (ii) Biochemistry (MSc Biochemistry)
- (iii) Clinical Pharmacology (MSc Clin. Pharm.)
- (iv) Clinical Psychology (MSc Clinical Psychology)
- (v) Microbiology and Immunology (MSc Microbiology)
- (vi) Physiology (MSc Physiology)
- (vii) Histotechnology (MSc HT)

##### **Master of Medicine (MMed)**

- (i) Anaesthesiology (MMed Anaesthes.)
- (ii) Anatomical Pathology (MMed Anat. Path.)
- (iii) Clinical Oncology (MMed Oncol.)
- (iv) Emergency Medicine (MMed Emerg Med.)
- (v) Haematology and Blood Transfusion (MMed Haematol. Blood Trans.)
- (vi) Internal Medicine (MMed Int.Med.)
- (vii) Microbiology and Immunology (MMed Microbiol. Immunol.)
- (viii) Obstetrics and Gynaecology (MMed Obs. Gynae.)
- (ix) Ophthalmology (MMed Ophthal.)
- (x) Orthopaedics and Traumatology (MMed Ortho. Trauma)
- (xi) Otorhinolaryngology (MMed Otorhinolaryngology)
- (xii) Paediatrics and Child Health (MMed. Paed. Child Health)
- (xiii) Psychiatry (MMed Psych)
- (xiv) Radiology (MMed Radiology)
- (xv) Surgery (MMed Surgery)
- (xvi) Urology (MMed Urology)

##### **Master of Science in Superspecialities**

- (i) Cardiology (MSc Cardiology)
- (ii) Haematology and Blood Transfusion (MSc Haematol. Blood Trans.)
- (iii) Medical Gastroenterology and Hepatology (MSc Med. Gastro. Hepatol.)
- (iv) Nephrology (MSc Nephrology)
- (v) Neurology (MSc Neurology)
- (vi) Neurosurgery (MSc Neurosurgery)
- (vii) Paediatric Haematology-oncology (MSc Paed. Haemato-oncology)
- (viii) Respiratory Medicine (MSc Resp Medicine)
- (ix) Surgical Gastroenterology and Hepatology (MSc Surg. Gastro. Hepatol.)
- (x) Urology (MSc Urology)
- (xi) Plastic and Reconstructive Surgery



- (xii) Interventional Radiology
- (xiii) Neuroradiology

**Master of Science (MSc) by Research and Publications**  
**Doctor of Philosophy (PhD)**

### **1.3.3 SCHOOL OF DENTISTRY**

**Master of Dentistry**

- (i) Community Dentistry (MDent Comm.Dent)
- (ii) Oral and Maxillofacial Surgery (MDent Oral. Maxillo. Surgery)
- (iii) Paediatric Dentistry (MDent Paed Dent)
- (iv) Restorative Dentistry (MDent, Rest. Dent)

**Master of Science (MSc) by Research and Publications**  
**Doctor of Philosophy (PhD)**

### **1.3.4 SCHOOL OF PHARMACY**

**Master of Science**

Pharmaceutical Management (MSc Pharm. Management)

**Master of Pharmacy**

- (i) Industrial Pharmacy (MPharm Indust. Pharm.)
- (ii) Quality Control and Quality Assurance (MPharm QC & QA)
- (iii) Hospital and Clinical Pharmacy (MPharm Hosp. and Clin. Pharm)
- (iv) Pharmacognosy (MPharm Pharmacognosy)
- (v) Medicinal Chemistry (MPharm Med. Chem.)
- (vi) Pharmaceutical Microbiology (MPharm Pharm. Microbiol.)

**Master of Science (MSc) by Research and Publications**  
**Doctor of Philosophy (PhD)**

### **1.3.5 SCHOOL OF NURSING**

**Master of Science (MSc)**

- (i) MSc Nursing Critical Care and Trauma (MScN CCT)
- (ii) MSc Nursing Mental Health (MScN MH)
- (iii) MSc Midwifery and Women's Health (MSc MWH)

**Master of Science (MSc) by Research and Publications**  
**Doctor of Philosophy (PhD)**

### **1.3.6 SCHOOL OF PUBLIC HEALTH AND SOCIAL SCIENCES**

**Master of Arts**

- (i) Master of Arts in Health Policy and Management (MA HPM)

**Master of Bioethics**

- (i) Master of Bioethics (MBE)

### **Master of Medicine**

- (i) Community Health (MMed Comm. Health)

### **Master of Public Health**

- (i) Master of Public Health (MPH) – Distance learning
- (ii) Master of Public Health (MPH) – Executive Track
- (iii) Master of Public Health (MPH) – Regular Track

### **Master of Science**

- (i) Applied Epidemiology (MSc Applied Epidemiology)
- (ii) Behavioral Change Communication for Health (MSc BCC)
- (iii) Behaviour Change (MSc BC)
- (iv) Environmental and Occupational Health (MScEOH)
- (v) Epidemiology and Laboratory Management (MSc Epid and Lab Management)
- (vi) Health Information Management
- (vii) Parasitology and Medical Entomology (MSc PE)
- (viii) Tropical Disease Control (MSc, TDC)
- (ix) Project Management, Monitoring and Evaluation in Health (MSc PMMEH)

### **Master of Science (MSc) by Research and Publications**

### **Doctor of Philosophy (PhD)**

## **1.3.7 INSTITUTE OF TRADITIONAL MEDICINE**

### **Master of Science**

- (i) Traditional Medicine Development (MSc Trad Med Development)

### **Master of Science (MSc) by Research and Publications**

### **Doctor of Philosophy (PhD)**



*Photograph of MUHAS top University officials (Chancellor, Council Chairperson, Vice Chancellor and Deputy Vice Chancellors) at a graduation ceremony.*

## **1.4 APPLICATION PROCEDURES**

Applications for all Master by Coursework Degree Programmes in the 6 Schools/Institute of Traditional Medicine shall be done **online** through the portal available on MUHAS website ([www.muhas.ac.tz](http://www.muhas.ac.tz)). In the event of malfunction of the online system, the following application procedure shall be followed;

### **1.4.1 Submission of application**

- (i) All applications for postgraduate training at the University shall be submitted to the Director of Postgraduate Studies (DPGS) and copies to DVC-ARC and respective Deans/Director.
- (ii) Application Forms for Master Programmes (**MUHAS/PG.F1**) for all Schools and Institutes can be obtained from the office of the Director, Postgraduate Studies or from the website [www.muhas.ac.tz](http://www.muhas.ac.tz). Application forms should be dully filled and submitted, accompanied with referees' reports (**MUHAS/PG.F2**), copies of transcripts, degree certificates and receipt of fees paid.

### **1.4.2 Application Fee**

All applicants are required to pay a non-refundable application fee as indicated in a fee structure in the University prospectus. The fee should be paid through MUHAS Bank accounts (Refer to forms **MUHAS/PG.F1**)

## **1.5 ENTRY QUALIFICATIONS**

### **1.5.1 Master Degree**

Candidates for admission to Master Degree programmes of the Muhimbili University of Health and Allied Sciences shall hold the following qualifications:-

- (i) A degree of this University, its predecessor or an equivalent degree from another recognized University.
- (ii) A GPA of 2.7 or above. Having a "B" or higher grade in the intended subject for specialization or related subject for specialties whose subjects were not examined independently at undergraduate level is an added advantage.
- (iii) For some Master programmes, equivalent degree may not mean crossing from disciplines of one programme to another, e.g., from MD to MDent or from DDS to MD and vice versa. This should not be allowed. Equivalent degree for MD is MB ChB and MB BS and equivalent degree for DDS is BDS.
- (iv) For other detailed requirements, applicants should refer to specific programmes in the Prospectus.

### **1.5.2 Post MMed Master Degrees**

- (i) Any holder of MMed degree in relevant medical discipline of this University or its predecessor with outstanding academic and professional conduct.
- (ii) Holders of a degree equivalent to MMed degree in relevant medical discipline from other approved Universities with good academic and professional conduct.
- (iii) The applicant will have to pass an interview organized by the relevant department before admission.

### **1.5.3 Doctor of Philosophy Degree**

A candidate for admission to the Doctor of Philosophy degree of the Muhimbili University of Health and Allied Sciences shall hold the following qualifications: -

- (i) Master degree of this University or its predecessor or an equivalent Master degree from a recognized University.

### **1.5.4 Other Requirements**

- (i) Certificates obtained from unlisted Universities and institutions of higher learning shall be subject to approval by the Tanzania Commission for Universities.
- (ii) Students discontinued on academic grounds from this university or other universities shall only be eligible for re-admission or admission, respectively, to this University for the same or any other programme at least three years after discontinuation from the studies.
- (iii) Students discontinued from studies on disciplinary grounds or examination irregularities shall not be considered for re-admission to this University.
- (iv) Application call shall be posted not later than 31<sup>st</sup> December and the application deadline shall be 31<sup>st</sup> March of each year.

## **1.6 REGISTRATION**

### **1.6.1 Master Programmes (coursework and dissertation)**

- (i) Candidates will be registered for coursework study followed by research leading to a dissertation: -
  - (a) Candidates may register as full-time or as part-time students.
  - (b) Registration shall take place during the first two weeks of each semester using forms **MUHAS/PG.F3** for semester one, and **MUHAS/PG.F4** for other semesters upon paying the required fees.
  - (c) Failure to renew registration shall mean automatic de-registration from studies.
  - (d) First semester candidates must submit the following documents at the time of registration:
    - (i) Evidence of payment of the University Fees
    - (ii) Originals of University/college transcripts and certificates, which will be returned to the candidate after physical verification
    - (iii) Two stamp size photographs
    - (iv) Evidence of release from employer (if employed)
    - (v) Evidence of sponsorship or ability to self-support
- (ii) Students shall be registered by names appearing on their certificates. No change of names by students shall be entertained during the course of study at the University except under special circumstances backed by legal evidence and approved by the Senate.
- (iii) No student shall be allowed to defer studies after selection for admission and before registration. Those who cannot register for various reasons will have to reapply and compete with others when the call for the next invitation for application is posted.
- (iv) No student shall be allowed to postpone studies after effective commencement of an academic year except under special circumstances. Permission to postpone studies will be considered after producing satisfactory evidence of the reason for postponement. Special circumstances shall include:

- (a) Sickness.
- (b) Serious social problems (each case to be considered on its own merit)
- (c) Severe sponsorship problem
- (v) 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 studies where they left off.
- (vii) No student shall be allowed to change subjects/courses/programmes after the 3<sup>rd</sup> week of commencement of the semester.
- (vii) Transferring from one academic programme to another will be allowed only if the candidate meets the required admission criteria for the programme for which transfer is being sought and a vacancy exists in that programme.
- (viii) The registration of new (**using form MUHAS/PG.F3**) and continuing (**using from MUHAS/PG.F4**) students shall be two weeks from the first day of the commencement of classes. Students seeking registration during the 3<sup>rd</sup> week shall be liable to a surcharge of 5,000/= per working day. No student shall be registered after the 3<sup>rd</sup> week from the commencement of the semester.
- (ix) Every registered candidate is required to submit a progress report (**using form MUHAS/PG.F5**) to his/her supervisor who shall forward to the School or Institute through the Head of Department.
- (x) Each School/Institute is required to submit progress reports of all postgraduate students registered in that School or Institute to Senate Higher Degrees Committee (SHDC) at the end of every semester.

#### 1.6.2 Master Programmes by Research and Publications

Candidates will be registered for research leading to a thesis:

- (i) Candidates may register as full-time (two years) or as part-time (three years) students any time during the academic year.
- (ii) Registration shall take place using forms **MUHAS/PG.F3** for initial registration, **and MUHAS/PG.F4** for renewed registration in subsequent years upon paying the required fees.
- (iii) Failure to renew registration shall mean automatic de-registration from studies.
- (iv) Submission of a two to four pages research concept shall be a pre-requisite for registration.
- (v) In addition, candidates must submit the following documents at the time of registration:
  - (a) Evidence of payment of the University Fees
  - (b) Originals of University/college transcripts and certificates, which will be returned to the candidate after physical verification.
  - (c) Two stamp size photographs.
  - (d) Evidence of sponsorship or ability to self-support
- (vi) At the end of the first semester the candidate must have submitted a full proposal approved by the department
- (vii) Candidates shall be required to fulfill all other requirements stipulated in the Guidelines for Postgraduate Studies at MUHAS.

#### 1.6.3 Post MMed Superspecialization Master Programmes

Candidates shall be registered for a 4 semester's full-time training consisting of coursework and clinical audits to improve the quality of service delivery in their respective units.

- (i) All regulations for Master Programmes by coursework and dissertation apply to this category except that the Superspeciality programmes are fulltime and have no dissertation work.
- (ii) Training of superspeciality students aims at creating experts in the field and the main focus will therefore be on development of appropriate skills and competence.
- (iii) The curriculum shall clearly spell out the minimum number of the different procedures which a student shall have to perform under supervision and on his/her own in order to be certified competent. Use of logbooks and portfolios must be enforced to make sure students are mastering the superspeciality.

#### **1.6.4 PhD Programmes**

- (i) PhD students may be registered as full time (4 years) or part time (5 years) and also by publication or monograph. The registration procedure will be the same for both, PhD by monograph and by publications.
- (ii) Candidates shall be required to register at the beginning of the 1st year using a form **MUHAS/PG.F9** and to renew their registration at the beginning of subsequent academic years by filling form **MUHAS/PG.F4** and paying the required fees.
- (iii) Failure to renew registration shall mean automatic discontinuation from studies.
- (iv) The registration of PhD candidates shall be according to the following procedure: -
  - (a) With the help of the Department's postgraduate committee, the candidate submits a two-page statement (concept note) of the intended research topic to the relevant School/Institute.
  - (b) On the basis of the Department's recommendations the School/Institute will appoint (a) supervisor(s) to the candidate. Additional supervisor(s) may be appointed if necessary but with the approval of the Senate Higher Degrees Committee (SHDC) upon submission of the recommendations by the School/Institute Higher Degrees Committee and a duly filled in **MUHAS/PG.F9** for provisional registration.
  - (c) Within four months of the admission and provisional registration into a PhD programme, the candidate shall present a comprehensive research proposal in a Departmental seminar for all (especially the Department's Postgraduate Committee) to review.
  - (d) Guidelines on the writing of the Research Proposal are detailed in Appendix III. The proposal should not exceed 25 pages in length, typed in 12-point font and have double spaced lines. Each member of the department's postgraduate committee shall be given a copy of the proposal for scrutiny at least seven days before the date of the seminar presentation.
  - (e) If satisfied with the proposal's quality, the department shall submit the proposal for evaluation by the School's/Institute's Higher Degrees Research and Publication Committee (HDRPC), in the presence of the student.
  - (f) If the School's/Institute HDRPC finds the proposal satisfactory, the proposal shall be submitted to the Director of Postgraduate Studies who will forward it to the Director of Research and Publications for ethical clearance.

- (g) The ethically approved proposal shall be submitted to SHDC which will receive, discuss and recommend to Senate for full PhD registration. The candidate must fill form **MUHAS/PG.F10**.
- (h) The maximum period for the submission of the proposal is **six** months.
- (i) After this period the provisional registration will be withdrawn and the candidate shall have to submit a fresh application.
- (j) Extension of the period of maximum submission may be allowed on recommendation of the relevant School Board and Senate Higher Degrees Committee and approved by the Senate.
- (v) A candidate registered for the PhD degree programme shall be required to do formal short courses appropriate to his/her field of study, as proposed by his/her supervisor(s) and approved by SHDC prior to full registration. A minimum of thirty credit points must be achieved before PhD award.
- (vi) A candidate registered for the PhD degree programme shall be required to attend and present a paper in at least two national and two regional/international scientific conferences.
- (vii) The appointed supervisor(s) shall guide the candidate in his/her research and shall submit periodic reports (twice a year) on the candidate's progress (Form **MUHAS/PG.F11**). (Guidelines to postgraduate student supervisors are detailed in Chapter 4).

All correspondences about admission issues or enquiries should be addressed to:

**Deputy Vice Chancellor - Academic, Research and Consultancy (DVC-ARC),  
Muhimbili University of Health and Allied Sciences  
P.O. Box 65001,  
Dar es Salaam, Tanzania.  
E-mail: [dvcarc@muhas.ac.tz](mailto:dvcarc@muhas.ac.tz)  
Tel.: +255 22 2150302-6 ext. 1235      Direct: +255 22 2150473**

## **1.7 GENERAL UNIVERSITY EXAMINATION REGULATIONS**

### **1.7.1 Regulations for registration of students**

- (i) Registration and payment to the University of all required or prescribed fees by a candidate for a course of study shall be deemed as adequate registration for the requisite examinations in the particular course of study.
- (ii) All full-time students shall register at the beginning of each semester.
- (iii) Subject to approval by the Senate, the Board of each School and academic Institute shall make such internal examination regulations that are necessary for the proper conduct, management and administration of examinations in accordance with the specific requirements of a particular degree, diploma or other awards of the School or academic Institute, as the case may be.

### **1.7.2 Regulations for students' professional conduct**

- (i) Every student shall be required to behave professionally and pass Professionalism and Ethics in Health science modules as offered in the respective programmes and also pass the professionalism competency domains as assessed in the various modules, courses or rotations in the program.

- (ii) Professionalism will also include attention to the patient, appropriate patient care, upholding of ethical behavior while handling patients, adherence to the approved MUHAS dress code and altruism. The following four principles shall be used to assess professionalism: -

<b>Excellence</b>	Knowledge, Skills, Commitment to exceed above ordinary standards. Attendance and active participation in formal learning sessions
<b>Humanism</b>	Respect of Seniors, Academia, Peers, and Ancillary Staff. Compassion, Empathy, Honesty and Integrity for the patient.
<b>Accountability</b>	Response to the needs of patients, Health care system, Regulations, Community and the Profession, beyond the call of duty.
<b>Altruism</b>	Best interest of patient, Patient needs being above one's own interest.

- (iii) Any student whose behavior is considered to be unprofessional or lacks professionalism at any time shall be discontinued from studies by the disciplinary authority without any FURTHER enquiry.
- (iv) A student whose performance in professionalism is unsatisfactory will be called for mentoring and remediation by a faculty committee appointed by the Head of the relevant Department during the course and at the end of the semester. Failure to improve after such mentoring and remediation meetings, at the end of the semester, will necessitate an intervention by an academic committee appointed by the Dean/Director of the respective School/Institute, comprising of at least three (3) but not more than five (5) Senior academic staff, to discuss the the poor performance and unprofessional conduct with the candidate, warn him/her and inform of consequences of not improving in professionalism. If no improvement is achieved in performance, professional attitude and ethical conduct after the warning, by the academic committee and the candidate's professional behavior and performance in professionalism and ethics continues to be rated as unsatisfactory, shall be recommended for discontinuation from studies by Senate through the School/Institute Board at any point during the study period.

### **1.7.3 Eligibility for Examinations**

- (i) The Dean of a School or the Director of Academic Institute may bar any candidate from being admitted to any examination in any subject or course where the Dean or Director is not satisfied that the candidate has completed satisfactorily by attendance and otherwise the requirements of the subject or course. A student who misses 10% or more of the teaching time per course module/modular course will be barred from sitting for the respective examination.
- (ii) Where a candidate barred in accordance with paragraph 1.7.3 (i) enters the examination room and sits for the paper, his/her results in the paper shall be declared null and void.
- (iii) A candidate whose work or progress is considered unsatisfactory may be required by the Senate on the recommendation of the School Board or Institute Board, as the case may be, to withdraw from the University or to repeat any part of the course before admission to an examination.
- (iv) Candidates with unpaid tuition fees and all other prescribed fees shall not be allowed to sit for examination.



**NOTE:** Specific regulations for each programme are outlined under the programme.

#### **1.7.4 Absence from Examinations**

A candidate who deliberately absents himself/herself from an examination or examinations without compelling reason(s) shall be discontinued from studies.

#### **1.7.5 Board of Examiners**

- (i) University Examinations shall be conducted by a Board of Examiners which shall consist of one or more examiners appointed from outside the Examination Unit, in conjunction with one or more of the teachers of the candidates in the courses under examination. An exception to this is that in the case of the re-examination of candidates who have failed in the ordinary University examination, all the examiners may be appointed from within the University, provided that at least one of them had no part in teaching the courses under examination.
- (ii) Notwithstanding the provisions of sub-paragraph 1.7.5 (i) University examinations conducted during and/or at the end of the Module/Semester may be conducted by internal examiners only provided that the results of such examinations shall be published in terms of regulation 1.7.11 (i)-(iii) at the end of each Semester.
- (iii) External Examiners shall be entitled to such honoraria, as the Council shall prescribe.

#### **1.7.6 Form of Examination**

- (i) In any examination a candidate may, at the discretion of the Board of Examiners, be required to attend an oral examination in addition to written and practical/clinical and other type of examinations depending on the appropriate method of assessment.
- (ii) The percentages of the total marks awarded for written, practical/clinical and oral examinations in any course shall be determined by the Senate on the recommendations of the appropriate School or Academic Institute Board and as described in this prospectus under each programme.

#### **1.7.7 Dates of Examinations**

- (i) End of semester examinations in all Schools and Academic Institutes shall be held at a time to be determined by the Senate, which shall normally be at the end of each semester, subject to such exceptions as Senate may allow upon recommendation by a School, or academic Institute Board, and the Senate Senate Higher Degrees Committee, as the case may be.
- (ii) Candidates who are referred and are required to do supplementary examinations shall be re-examined in the referred subjects at a time to be determined by the Senate or in particular cases by the relevant School/Academic Institute Board, as the case may be, which shall not be less than one month after the ordinary examinations at the end of the second semester in the academic year. In most instances supplementary examinations shall be done during the times specified under examination regulations for the specific programmes of study.
- (iii) A candidate who, for a grave cause, was unable to present himself/herself in the ordinary examinations may, with the special permission of Senate, on recommendation of School Board or Academic Institute Board, present

himself/herself for examination at a time fixed for any supplementary examination.

- (iv) Notwithstanding sections (i-iii) above, it is the duty of the department to ensure that there is a documented regular formative Assessment and Assessment of competencies using appropriate tools.

#### **1.7.8 Conduct of Examinations**

- (i) University examinations shall be conducted under the control of the DVC-ARC or such other officer of the University as the DVC-ARC may appoint.
- (ii) The Senate, in the manner it shall prescribe, shall appoint the examiners for University examinations.
- (iii) The DVC-ARC shall have power to issue such instructions, notes or guidelines to candidates, invigilators and examiners of University examinations, as he/she shall deem appropriate for the proper, efficient and effective conduct of such examinations.
- (iv) The instruction notes or guidelines issued by the DVC-ARC under regulation 1.7.8 (iii) shall form part of and be as binding as these Regulations.

#### **1.7.9 Appointment of External Examiners and Moderators**

The main purpose of inviting examiners from outside the institution or department is to upraise the whole process of assessment including the examinations and make sure they meet the required quality and minimum standards. Their role is not to actively mark examinations. Appointment of External Examiners (External Moderators) and Internal Moderators shall be done by the University Senate on the recommendation of the School/Academic Institute Board and the Senate Higher Degrees Committee.

- (i) External Examiners must be: -
  - (a) Senior University Faculty of the rank of Senior Lecturer and above.
  - (b) External to the University (another University in or outside Tanzania)
  - (c) Expert in the course/subject to be examined.
  - (d) Active researchers, with at least 3 publications within the last three years.
- (ii) The tenure of appointed External Examiners is three consecutive years. Renewal may be done three years later after the last period of serving as an External examiner at the University.
- (iii) Departments must ensure that External Examiners' assessment of students in their courses is done at least once in an audit year.
- (iv) Appointment of Moderators internal to the university will only be considered when external examiners cannot be engaged for valid reasons. Moderators should be: -
  - (a) Senior University Faculty of the rank of Senior Lecturer and above
  - (b) External to the Department
  - (c) Expert in the course/subject to be examined or a related course
  - (d) Active researchers, with at least 3 publications within the last three years.
- (v) External examiners and moderators guidelines shall be similar. These shall be provided by the office of DVC-ARC's and appended to the appointing letter.
- (vi) After completion of their assessment, the external examiners and moderators shall immediately forward their reports to the DVC – ARC and copies to the Vice Chancellor and Dean/Director of the Institute under confidential cover. The Dean of the School or Director of the Institute shall then request Department to discuss the report and provide reactions to the comments made.

#### **1.7.10 Examination Irregularities**

- (i) All cases of alleged examination irregularities, including alleged unauthorized absence from examination, possession of unauthorized material in the examination room, causing disturbances in or near any examination room and any form of or kind of dishonesty, destruction or falsification of any evidence of irregularity or cheating in examination, shall be reported to the Senate Higher Degrees Committee as the case may be, which shall have power to summon the students and members of staff of the University, as it deems necessary and make decisions, subject to confirmation by Senate.
- (ii) No unauthorized material shall be allowed into the examination room. Exchange of any material without permission from the invigilator or one student assisting another student will be an offence and shall lead to discontinuation from the studies. Unauthorized materials include papers, written notes (on paper or on any part of the body), books, cell phones or any other digital media, which can transmit information during examination or test.
- (iii) Subject to confirmation by Senate, any candidate found guilty of bringing unauthorized material into the examination room in any part of the examination process shall be deemed to have committed an examination irregularity and shall be discontinued forthwith from studies at the University.
- (iv) Any candidate found guilty of cheating in relation to any part of the examination process shall be deemed to have committed an examination irregularity and to have failed in the whole of that examination for that year and shall be discontinued from studies at the University, subject to confirmation by Senate.
- (v) Any candidate found guilty of causing disturbance in or near any examination room shall be deemed to have committed an examination irregularity and to have failed in the whole of that examination for that year and shall be discontinued from studies at the University, subject to confirmation by Senate.
- (vi) Any candidate found guilty of commission of an examination irregularity and is aggrieved by the decision may appeal to the Senate in accordance with the provisions of regulation 1.7.18 of these Regulations.
- (vii) In this regulation:
  - (a) “Unauthorized material” includes materials such as, but not limited to, any written, printed material or electronic gadget such as cellular or mobile phones, radios, radio cassette or other types of cassette players, computers, word or data processing digital instruments, soft and alcoholic drinks and any other material as may be specified from time to time by the DVC-ARC, the Dean of a School, Director of an Academic Institute or a Head of an Academic Department.
  - (b) “Unauthorized absence from examination” includes going out of the examination room, temporarily or otherwise, or staying out of the examination room for an unduly long period, without authorization or permission of the invigilator or one of the invigilators for the examination in question.
  - (c) “Cheating in examination” includes any form or kind of dishonesty or destruction or falsification of any evidence of irregularity.
- (viii) The Senate may impose such a lesser penalty on a candidate found guilty of commission of an examination irregularity, depending on the gravity of the facts or circumstances constituting the offence, as the Senate may deem appropriate.

### **1.7.11 Publication of Results**

- (i) The provisional results of candidates in every examination, arranged in a manner as prescribed by Senate or, in that behalf, as provided under internal examination regulations of the relevant School or Academic Institute approved by Senate and not in conflict with these Regulations, shall be published by the Chairperson of the SHDC soon after the SHDC meeting, but the results shall not be regarded as final until they are approved by Senate.
- (ii) Examination results having been recommended by the School or an Academic Institute Board to the Senate Higher Degrees Committee, as the case may be, shall make recommendations on the results and submit them to Senate for approval.
- (iii) The Senate shall confirm the results of examinations for both Semesters at a time to be determined by Senate, which shall normally be at the end of the Second Semester of each audit year.

### **1.7.12 Progress from Year to Year**

- (i) Candidates are required to have attained a minimum GPA of 2.4 before proceeding to the following year of study. Candidates attaining GPA below 2.4 in the audit year shall be discontinued from studies.
- (ii) A candidate who passes the examination with a B grade or higher will be declared to have passed the examination.
- (iii) A candidate who scores a GPA of 2.4 or higher, but fails in 3 courses or less at end of the audit year shall be required to supplement in the failed modules in the course(s).
- (iv) A candidate who scores a GPA of 2.4 or higher, but fails in more than 3 courses shall be discontinued from studies.
- (v) A candidate may be allowed to sit for a second supplementary examination in failed course(s) if he or she has attained a GPA of 2.7 or above.
- (vi) A candidate who fails the second supplementary examination in semesters 1 - 2 for one or two-year programmes, and semesters 1 - 4 for three-year programmes shall be discontinued from the programme, except in special circumstances, if recommended by the School Board and Senate Higher Degrees Committee and approved by the Senate.
- (vii) A candidate who fails the second supplementary examination in semesters 3-4 for two-year programmes and semesters 5-6 for three-year programmes shall be allowed to supplement the failed courses/modules/modular courses after semester four and six for two year and three year programmes, respectively, provided the maximum tenure is not exceeded.
- (viii) A student who passes a supplementary examination at any level shall be awarded a "B" grade.
- (ix) No candidate shall be allowed to repeat any year of study on academic grounds, except with special permission or approval of the Senate upon recommendation of a School or Academic Institute Board and the Senate Higher Degree Committee as the case may be.

### **1.7.13 Award**

- (i) The Board of Examiners in a School or Academic Institute, upon its satisfaction that the standard required under relevant regulations for the award of a degree has been attained by a candidate in University examinations applicable to him/her,

may recommend to Senate through the relevant Board of a School or Academic Institute that such degree be conferred upon or granted to such successful candidate.

- (ii) The Senate may confer degrees or other awards of the University to candidates who satisfy the relevant requirements and are recommended for such conferment or grant by the Board of Examiners in a School or Academic Institute.

#### **1.7.14 Aegrotat Degrees**

Candidates who have completed their course of study but have been absent, through illness, from part of the final examination for the degree, may apply to the University for the award of an aegrotat degree, in accordance with the following regulations: -

- (i) Candidates who have completed such portion of the examination as shall be determined by the School or Academic Institute Board are eligible to apply for an aegrotat degree.
- (ii) Applications from, or on behalf of, candidates must reach the office of the DVC-ARC through the Dean of the School or Director of an Academic Institute within the period of the examination, and should be accompanied by a report obtained, from the Medical Officer approved by the University.
- (iii) An aegrotat degree will not be awarded unless the examiners consider that, in the work he/she attended, the candidate reached a standard, which if also reached in the remainder of the examination should have qualified him/her for the award of the degree PROVIDED that only candidates who completed successfully the whole of their course work and at least 80% of the final written examination are eligible to apply for an aegrotat degree.
- (iv) An aegrotat degree candidate shall not be eligible for the award of honours degree.
- (v) Holders of an aegrotat degree are not permitted to re-enter for the same examination, but may apply for permission to proceed to a higher degree on complying with the regulations for registration for such a degree.

#### **1.7.15 Posthumous awards**

A posthumous award may be awarded to a student who has died before graduation but after qualifying for award of a degree of any academic programmes at the University. It is given by the University in order to acknowledge that if death had not occurred, the student, who had fulfilled the requisite criteria, had the right to be conferred the respective academic award. Decision for posthumous award therefore is made with due attention to academic and institutional integrity and accordingly, such awards will be given in line with the following regulations: -

##### **(a) Criteria for award**

A postgraduate degree or diploma may be awarded posthumously if:

- (i) At the time of death, the student was enrolled in one of the academic programmes at the University;
- (ii) The student was in good academic standing and successfully completed all requirements for the degree or diploma to be awarded;
- (iii) A favorable recommendation for award of the degree or diploma is made by the student's School or Academic Institute Board as the case may be, and the Senate Higher Degrees Committee; and
- (iv) The Senate approves the award.

- (v) The academic transcript shall be marked “Degree conferred posthumously” and placed in the student’s file. The transcript shall not be released.

**(b) Conferral of a Posthumous Award**

- (i) A posthumous degree will customarily be conferred at the regularly scheduled graduation ceremony in absentia or in the presence of a member of the student’s family or their representative.
- (ii) During presentation of the graduant’s name, it will be mentioned that a posthumous award will be presented to him/her.

**1.7.16 Certificates, Certification and Transcripts**

- (i) The Senate shall issue certificates for degrees, diplomas or other awards to such candidates as shall be declared to have satisfied the appropriate Board of Examiners and shall have been recommended to and approved by the Senate for the conferment or grant of such a degree.
- (ii) A fee of TZS 50,000/= per copy for Tanzanian students or USD 50: - payable by telegraphic transfer for foreign students, or such other sum as the Senate may from time to time prescribe, shall be charged for certifying each copy of a degree/diploma certificate.
- (iii) Upon application for a transcript, a student or former student shall be given a transcript of his/her academic performance record and charged a fee of TZS 30,000/= in respect of Tanzanian students or USD 30: - by telegraphic transfer for foreign students, or such other sum as the Senate may from time to time prescribe. Any finalist student desirous of obtaining a transcript shall submit to the office of the DVC-ARC an application for a transcript; a clearance form and one coloured passport size photograph for the preparation of the transcript.
- (iv) Certificate and transcripts shall be issued to the respective former student in person. In the event that the former student is unavailable and wishes to entrust another person to collect his/her certificate and/or transcript on behalf, the collector must present a duly filled Power of Attorney that legally authorizes the agreement.
- (v) No academic record or transcript shall be issued to a student who is deregistered or discontinued from studies on academic, disciplinary or abscondment grounds.

**1.7.17 Loss of Certificate**

In case of loss or total or partial destruction of the original certificate or a copy thereof, the University (Office of the DVC-ARC or such other office as the DVC-ARC may authorize in writing) may issue a copy or another copy on condition that: -

- (i) The applicant produces a swornin affidavit.
- (ii) The certificate so issued shall be marked “**COPY**” across it.
- (iii) The replacement certificate will not be issued until a period of 12 months from the date of such loss has elapsed; except that such replacement may be issued within a shorter period where there has been partial destruction of the original certificate or of a copy thereof.
- (iv) The applicant must produce evidence that the loss has been adequately publicly announced with a view to its recovery in an officially recognized form or manner in the applicant’s home country or where the loss is believed to have taken place.
- (v) A fee of TZS 50,000.00 in respect of Tanzanian students or USD 50: -paid by telegraphic transfer in respect of foreign students, or such other fee as may be

prescribed from time to time by Senate, shall be charged for the copy of certificate issued.

#### **1.7.18 Appeals**

- (i) Except where unfair marking, wrongful computation of marks or grades or others like irregularity committed in the conduct of any University examination is alleged, no appeal shall lie in respect of any such examination on any other ground except under special considerations as approved by the Senate.
- (ii) Any student or candidate aggrieved by a decision of the Senate Higher Degrees Committee in terms of the provisions of regulation 1.7.10 (viii) may appeal to the Senate for reversal or moderation of the decision of the Committee.
- (iii) Any appeals made under regulation 1.7.18 (i) shall be lodged with the Board of the appellant's School or Academic Institute, which shall forward the appeal with observations to the Senate Higher Degrees Committee, whose observations and recommendation will be forwarded to Senate for approval.
- (iv) Any member of the appellant's School or Academic Institute Board who participated in the making of the decision against which the appeal is lodged shall not have a voting right in the Senate over such an appeal and may participate therein only in terms of presentation of findings and recommendation of the appellant's School or Academic Institute Board, or answering queries, as the case may be, and shall otherwise be absent from the Senate session considering any such appeal.
- (v) Appeals made under regulation 1.7.18 (ii) shall be lodged directly with the DVC-ARC who shall forward them to the Senate with observations and recommendations thereon.
- (vi) Any person who has been involved at any stage in the processing of a case of alleged commission of an examination irregularity, whether at first instance or in preparation for the appeal, shall be barred from participation in the making of a decision over such a case, except for purposes of making a presentation of findings or recommendations or answering queries, as the case may be, in respect thereof and shall otherwise be absent from the Senate session considering any such appeal.
- (vii) No appeal pertaining to the conduct of any University examination and the marking of scripts thereof shall be entertained unless an appeal is lodged with the appropriate University authorities in accordance with these regulations within **one** year from the date of publication of the results by or under the authority of the Senate.

#### **1.7.19 Appeal Fee**

- (i) All appeals shall be accompanied by non-refundable appeal fee of one hundred thousand shillings (TZS 100,000/=) in respect of Tanzanian students or one hundred dollars (USD 100.00) by Money Order in respect of foreign students.
- (ii) The same rates or any other rates as approved by relevant organs shall be charged for any further appeal decisions.

#### **1.7.20 Disposal of Examination answer books and other scripts**

- (i) Unless otherwise retained by the University Library for archival purposes, all used examination answer books/scripts shall be destroyed after the expiry of thirteen (13) months following final decision of Senate on the examination

- concerned. Examination results in electronic form shall be stored indefinitely in the Students Academic Record Information System (SARIS).
- (ii) Heads of Departments concerned shall, with respect to examination answer books/scripts falling under their departments: -
    - (a) Create and maintain adequate records of actions and transactions affecting examination answer books/scripts to ensure that those records are properly maintained while waiting for any appeal or final disposal;
    - (b) Initiate the disposal procedures of those examination answer books/scripts for which there is no further need;
    - (c) Initiate immediate disposal of used examination answer books/scripts that have been stored by their departments for more than 13 months following respective Senate decision;
    - (d) Identify and safeguard those examination answer books/scripts which are of enduring value and which should be preserved as archives and made available to the Library for research and public consultation;
    - (e) Assist the University Library in selecting examination answer books/scripts designated for archiving purposes;
    - (f) Seek expertise presumably from the University Library to assist in the sampling answer books/scripts ear-marked for archiving;
    - (g) Designate a place or room as storage area for examination answer books/scripts awaiting appeals or final disposal;
    - (h) Store and retain course assignments for at least thirteen (13) months after completion of an examination concerned so that students are furnished with reasonable opportunity to obtain access;
    - (i) Witness and keep close control over final disposal of examination answer books/scripts to ensure the confidential nature of contents of answer books/scripts remain inviolate.
  - (iii) Pending final disposal, Heads of Departments shall ensure all information contained in examination answer books/scripts remain inviolate and is protected from misuse or abuse: -
    - (a) Respective School or Academic Institute Boards shall be responsible for prescribing under their special regulations clear guidelines for returning to the students graded courses, assignments, course essays, semester papers and timed essays.
    - (b) Unless otherwise retained for archival purposes, Departments shall also initiate the final disposal of such other examination scripts as essays, objective question papers, laboratory works, models, studio papers or drawings that have been in retention or storage for the previous thirteen (13) months.
    - (c) The DVC-ARC shall cause to be prepared a disposal and storage budget and designate the cartons of various sizes or descriptions, which shall be used by Heads of Departments for thirteen (13) months storage of examination answer books/scripts pending final disposal.
    - (d) The cartons prescribed under sub-paragraph iii (c) above shall be so marked or labeled as to facilitate identification of the course, examination date, date of Senate decision, course coordinator and date when final disposal shall be due.
  - (iv) The University Library shall keep; maintain in any format including electronic, all answer books/scripts selected by Departments and sent to the Library for archival purposes, where necessary.



- (v) The DVC-ARC shall select and announce at the end of each academic year the best available practice in disposing of the examination answer books/scripts due for disposal, as a reminder to Schools/Institutes and Departments.
- (vi) Depending on pertaining circumstances as privacy of information contained, cost involved and environmental considerations, the DVC-ARC may with respect to any batch due for disposal, direct: -
  - (a) The disposal by shredding and then disposed of shreds by either burning or selling to companies for re-cycling; or
  - (b) Used examination papers shall be entirely burnt to completion.
- (vii) The DVC-ARC on recommendation of the Deans shall be the principal executive officer responsible to order final disposal of any batch of examination answer books/scripts.
- (viii) Heads of Departments shall witness final disposal of itemized examination answer books/scripts.
- (ix) After disposal of the scripts there shall be a written report from the head of department describing the method and process used for disposal. The report from the Heads of Departments shall be forwarded to DVC-ARC through respective Deans. The disposal of examination answer books/scripts shall also include all copies of appropriate mark sheets and list of students who sat for the examination in question.

## **1.8 INSTRUCTIONS TO CANDIDATES**

These instructions shall be read together with the above University regulations: -

- (i) Candidates should make sure that they have been issued with Examination Numbers before Examinations begin.
- (ii) Candidates must acquaint themselves with the seating arrangement for their respective examinations in advance.
- (iii) Candidates are advised to be at the examination centre at least fifteen minutes before the commencement of the examinations.
- (iv) Candidates will be admitted by the invigilator to the examination room ten minutes before the time the examination is due to begin. Examination papers shall be issued after all the candidates are seated in the examination room. They must not begin writing until they are told to do so by the Senior Invigilator. Where large numbers of candidates are affected, invigilators may admit candidates to the examination room fifteen minutes in advance. During these ten minutes the Senior Invigilator will: -
  - (a) Make an announcement to the effect that all unauthorized materials should be removed from the examination room;
  - (b) Make an announcement to the effect that candidates should satisfy themselves that they are in possession of the correct paper;
  - (c) Call attention to any rubric at the head of the paper, which seems to require attention;
  - (d) Announce that both sides of the paper must be used. He/she will then tell students when they may begin writing. Candidates will be given five minutes to read the paper.
- (v) Candidates are permitted to do rough work on the left hand part of the scripts on the understanding that this is crossed through at the end of the examination.
- (vi) No books, bags, or attaché cases may be taken by candidates into the room. Candidates are not normally allowed to use their own logarithmic tables.

Candidates attention is specifically drawn to General University Examination Regulation No. 1.7.10 (i - iii).

- (vii) Once a student is found with unauthorized materials, he/she should sign on the materials to confirm they are his or hers.
- (viii) No candidate will be permitted to enter the examination room after the lapse of thirty minutes from the commencement of the examination and no candidate will be permitted to leave the examination room until thirty minutes have expired. No candidate shall be allowed to move out of the examination room during the last 10 minutes of the examination.
- (ix) At the end of the examination period, and on instructions from the Invigilator, candidates must stop writing and assemble their scripts, which they should personally hand to the invigilator unless instructed otherwise. Candidates must remain seated till the Invigilator tells them to leave the room. Apart from the examination questions paper, candidates are not allowed to take any examination material out of the examination room.
- (x) Mobile phones, computers, word-processing electronics devices and anything of that nature are prohibited from the examination room.

## **1.9 NOTES TO INVIGILATORS**

### **1.9.1 Procedure in the Examination Room**

#### ***Before the Examination:***

- (i) Invigilation of university examinations is one of the duties and responsibilities of all University faculty. Every academic staff may therefore be assigned to invigilate an examination.
- (ii) Invigilators should be present in the examination room at least twenty minutes before the commencement of the examination.
- (iii) Invigilators will be provided with the following items by the School Examinations Officer: -
  - (a) The question papers to be attempted by candidates. *Sealed* envelopes containing question papers *must* be personally collected by each invigilator from the said Examinations Officer *at least twenty minutes* before the examination. All *invigilators* who have reported to the Examinations Officer within this period should immediately go to their respective examination room.
  - (b) A list showing the names of the papers to be attempted in the room. (This will be distributed to invigilators in advance).
- (iv) Invigilators must ensure that ONLY ONE answer book is provided for each candidate unless the rubric on the question paper requires otherwise. The answer book must be filled before any additional paper is provided.
- (v) Question papers and any other material prescribed in the rubric (e.g. log-tables, charts etc.) should be set out by the invigilator with the help of the Internal Examiner.
- (vi) Bags, books, attaché cases, papers and other related items should be left outside the examination room.
- (vii) Invigilators should admit candidates to the examination room ten minutes before the commencement of the examination and they should ensure that they take the right places. Handbags, books and other similar articles must be deposited with the invigilator before the candidate is permitted to go to his/her place (where big numbers of candidates are involved, invigilators may admit candidates to the

examination room fifteen minutes in advance). During these ten minutes the invigilator shall: -

- (a) Make an announcement to the effect that unauthorized materials are not allowed in the examination room,
  - (b) Make an announcement to the effect that candidates should satisfy themselves that they are in possession of the correct paper,
  - (c) Call attention to any rubric at the head of the paper, which seems to require attention;
  - (d) Announce that, where this is practicable, both sides of the paper must be used. He/she shall then tell students when they may begin writing. Candidates will normally be allowed five minutes to read the paper.
- (viii) Invigilators should not admit candidates to the examination room after half an hour from the commencement of the examination and should not permit them to leave the room until thirty minutes have expired.

### ***During the Examination***

- (i) At the commencement of the examination, invigilators should remind candidates to ensure that they are attempting the right examination paper.
- (ii) At the end of the first half hour the total numbers present should be noted down. Invigilators should then collect the blank answer-books from all vacant places. The Internal Examiner shall return spare question papers to the correct envelopes for collection.
- (iii) During the examination, invigilators should ensure that candidates are provided with any additional requirements (e.g. scripts, blotting-paper, log-tables etc.). Candidates may be permitted to do rough work on the left hand pages of the script on the understanding that this is crossed out after the end of the examination. No candidate should be permitted to leave his/her place during the examination except to leave the examination room.
- (iv) A candidate who contravenes the regulations and instructions governing the examinations, especially by unfair practices such as copying from or communicating with other candidates shall be reported immediately to the Examinations Officer.
- (v) Once a student is found with unauthorized materials, the invigilator should ask the student to sign on the materials to confirm that they are his/hers.
- (vi) The candidate shall be informed that he/she has contravened the regulations and that he/she has been reported, but shall not be prevented from continuing with his/her paper. A written report must be sent to the Examinations Officer including full details of the contravention. It is part of the invigilator's duty to move about the examination room as quietly as possible at frequent intervals.

### ***At the End of the Examination***

- (i) Invigilators shall not permit candidates to leave their places before their scripts have been collected. Candidates who wish to leave the examination room before the end of the examination shall hand over their scripts to the invigilator before leaving the examination room.
- (ii) No candidate shall leave the examination room during the last ten minutes of the time allocated for the examination except in case of emergency. *At the end of the examination period invigilators shall instruct the candidates to stop writing and then collect all the scripts.*

- (iii) Invigilators shall enter the number of examination scripts collected from the candidate on the attendance sheet provided by the Examination Officer at the time of collecting the examination papers.
- (iv) Invigilators shall sign the said attendance sheet before they hand over all the scripts to the Internal Examiners (or their deputies) who must be present in the examination room at the end of the examination. Where invigilators are also internal Examiners, there should be no problem of collection of scripts. On receipt of the scripts, Internal Examiners will check them and countersign on the collection form. The attendance sheets must be handed to the Examinations Officer at the end of each session.
- (v) Invigilators shall hand over all extra examination papers to the Head of the relevant Department.

### **1.9.2 General Procedures during Examinations**

- (i) Internal Examiners (or their deputies) are required to attend in the examination rooms at the commencement of each period to assist the invigilators and to collect the scripts. Instructions, which the examiners (or their deputies) may wish to be given, should be announced by the invigilators.
- (ii) Cases of illness should be reported to the Examinations Officers as soon as possible.
- (iii) Invigilators shall have the power to confiscate any unauthorized book; manuscript or other aid brought into the examination room and to expel from the examination room any candidate who creates a disturbance. They shall report to the Examinations Officer any case of a candidate suspected of giving or obtaining unauthorized assistance or of attempting to do so, and that officer shall have power to take any further steps he/she may consider necessary. He/she shall then report the matter to the DVC-ARC.
- (iv) “Examinations Officer” includes the Examination Officer’s deputies.

### **1.9.3 Special Examination regulations for postgraduate programmes**

- (i) General University Regulations on registration for examination, professional conduct, eligibility for examination, absence from examination, Board of Examiners, conduct of examinations, Examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in Chapter one.
- (ii) All modules or modular courses offered during a semester shall be examined at the end of the module or modular course or rotation. External examiners or moderators shall be invited at the end of the semester or audit year.
- (iii) There shall be at least two Continuous Assessment Tests (CAT) for each module/modular course or rotation taught during semester one, and at least one CAT in each of semesters 2-6 and regular assessment of competencies. These shall form the Formative Assessment (FA).
- (iv) The FA in semesters 2-6 shall consist of evaluation of clinical and other competency domains using appropriate tools in addition to written examinations.
- (v) The FA shall contribute 50% of the final grade in the end of module/modular course/rotation Summative Assessment (SA).
- (vi) The SA for semesters 2-6 shall consist of written, practical/clinical and oral components whose proportional contribution will be 40%, 50% and 10%, respectively.

- (vii) To pass a course a candidate has to attain a B grade (greater or equal to 50%) or higher.
- (viii) Decision-making on failing students in basic science courses shall be determined at the end of the audit year.
- (ix) No candidate shall be allowed to sit for a supplementary examination in more than three failed courses at any given time irrespective of GPA and shall be discontinued from studies.
- (x) A candidate who fails any number of modules/rotations and has a GPA of less than 2.4 shall be discontinued from studies.
- (xi) In clinical subjects, supplementary examination for a failed clinical module/rotation shall be during the subsequent semester.
- (xii) A candidate who is not discontinued at the end of audit year on grounds of low GPA below 2.4 or having failed more than 3 courses in the particular year, but has one or more failed courses in the current and/or previous academic years, shall be allowed multiple sittings for supplementary examinations for the failed courses, provided the maximum tenure has not been reached.
- (xiii) To pass the end of modules/modular course/rotation examinations in semesters 2-6 the written and clinical/practical parts have to be passed separately.
- (xiv) A candidate who passes a supplementary examination at any level shall be awarded a "B" grade.
- (xv) No candidate will be allowed to repeat a semester except in very exceptional circumstances, on the recommendation of the School/Institute Board and approved by the Senate.
- (xvi) A student shall be awarded the degree after passing all examinations in the prescribed modules and courses in the programme and submitting an error free dissertation.
- (xvii) For all programmes the General Regulations and Guidelines of Postgraduate Study Programmes shall be binding.

#### **1.9.4 Regulations on Postgraduate dissertations**

- (i) The dissertation shall consist of one research topic. This will be determined by the candidate and approved by the department.
- (ii) Four loosely bound copies of the dissertation shall be submitted to the Dean/Director of the School/Institute at least three months before the beginning of the last module/modular course or rotation University examinations. A candidate who does not submit a dissertation at this period shall be barred from sitting for that examination. The candidate shall be required to submit loosely bound copies of the dissertation not less than three months prior to the examination when next offered provided that the regulation on maximum tenure for the degree allows.
- (iii) Oral defense of the dissertation shall be done during the end of last semester University examinations.
- (iv) A candidate, having passed all examinations, shall be required to re-submit error-free dissertation within three months in the case of minor corrections and within six months if there are major corrections.
- (v) A dissertation re-submitted after major corrections shall be re-examined by both internal and external examiners.
- (vi) In case of outright rejection of a dissertation a candidate may submit another dissertation for examination after nine months provided the maximum tenure allows.

- (vii) Concurrent with the written dissertation, the candidate must also submit draft manuscript(s) from the dissertation. These will be further developed by the candidate in consultation with his/her supervisor towards publication(s).

#### **1.10 BURSARIES AND FEES**

At the beginning of the academic year, all students will be required to produce evidence of sponsorship by the Government or any other organizations, otherwise they will be expected to pay full tuition and University fees for the full first year, by the beginning of the term/semester before they can be permitted to use the University facilities. All local payments for fees should be by Bankers Cheque payable to the Bursar, MUHAS and all payments must be receipted. The tuition fees for the various programmes for Tanzanian students are indicated in Chapter six. Foreign students' fees are under review and are subject to change at any time but they are currently at a further surcharge of 50% of the tuition fees for Tanzanian students.

#### **1.11 STUDENT ADMINISTRATION AT MUHAS**

- (i) The office of the Dean of Students is responsible for the administration of student affairs, mainly personal and social welfare aspects of the students' life. This office provides the following facilities: - residence, games, sports, counseling and guidance.
- (ii) All official communication of the students to the Vice Chancellor should be passed through the Supervisor, The Head of the Department, The Dean/Director of the School/ Academic Institute, The Director of Postgraduate Studies, and The Deputy Vice Chancellor – Academic Research and Consultancy. Communications to the other levels has to follow the same sequency to that level.
- (iii) Students requesting less than seven days to be out of the University but within Tanzania should channel their requests to the office of the Director of Postgraduate studies. Those requesting more thsn 7 days should channel their request to the Deputy Vice Chancellor – Academic Research and Consultancy.
- (iv) Students requesting to be out of Tanzania should address their request to the Vice chancellor.
- (v) Other information are provided in the Postgraduate regulations and guidelines.

### **1.12 THE UNIVERSITY LIBRARY**

The University Library is the largest national collection of health/medical resource. Its main function is to provide library and documentation services to support health/medical services, research, teaching and consultancy at the University and Muhimbili National Hospital. However, the Library also serves other users from outside the two Muhimbili institutions on request. The MUHAS Library has four main divisions: Technical Services (Cataloguing and Classification); Reader services (Reference, Circulation, Information Desk and Special Reserve); Periodicals and Documentation; and ICT services.

The collection mainly comprises of books and periodicals in medicine and health. The Library has a rich collection of health and medical information materials, including government and research publications. It also includes electronic information resources, both off-line and on-line resources, such as CD-ROM, e-resources and Internet facilities that include a range of electronic journals and health databases like HINARI, Pub Med, Cochrane, Blackwell, Willey, and EBSC-HOST.

The broad areas covered include Medicine, Nursing, Dentistry, Pharmacy, Public Health and Basic Sciences. Social Sciences and Humanities are also covered, to a lesser extent. The collection currently comprises over 78000 volumes of books and titles of periodicals. The library is currently subscribing to 40 peer reviewed journals.

The Library has a mixture of local content materials mostly generated from Tanzania and East Africa for example Tanzania Medical Journal, Tanzania Dental Journal and Dar es Salaam Medical Journal (Students' Journal). Other includes the East African Medical Journal and East African Journal of Public Health. Materials that are not available in the Library can be obtained that are not available in the library can be obtained from other libraries through inter-library loan arrangements and includes electronic delivery service. Some health information materials are obtained from the Ministry of Health and Social Welfare (MoHSW).

The Library coordinates an Information Literacy Programme, which is integrated into the postgraduate course of Teaching Methodology. The programme consists of 10 hours of Research Methodology course. The Library also engages in Continuing Professional Development (CPD) programmes in health information literacy to faculty members and postgraduate students.



### *Workshop ongoing at the MUHAS Library*

#### **Opening hours**

##### **Non-vacation period**

- Monday – Saturday: 8.30 am – 6.30pm and 7.30pm-10.30 pm
- Sunday and Public Holiday: Closed

##### **Vacation Period**

- Monday – Saturday; 8.30 am- 6.30pm
- Sundays and Public Holidays: Closed

#### **24- Hours Reading Room**

- Open 24 hours including Sundays and Public Holidays



### 1.13 UNIVERSITY ICT SERVICES

MUHAS by then MUCHS was the first institution in Tanzania to start using e-mail services. This entails that MUHAS harnesses and mainstreams information and communication technologies (ICT) into all its operational and management functions and ensures that new developments in ICT are embraced and used to promote the vision, mission and core functions of the University. The mandate of the Directorate of ICT (DICT) at MUHAS is development, management and maintenance of various ICT infrastructure, systems and services. DICT has four departments namely Systems and Network Administration, Customer Services, Training, Research and Development, and Management and Information Systems. The University has various ICT infrastructure, systems and services being managed by the DICT include local area network (LAN), telephone network, video conferencing systems, Internet services, email services, websites, and other application servers and management information systems. All these systems and infrastructure are managed in a start-of-art server room which is fitted with robust and reliable power systems (solar power back up system and inverters).

All MUHAS major building are connected using high speed fibre optic cables while internal connections are through structure UTP cables with a transmission speed of at least 100Mbps. The wired LAN is complemented by wireless hotspots around MUHAS and Chole campuses. Our Internet connection is connected to the high speed national fibre optic backbone with the current bandwidth of 80 Mbps. Our telephone system is managed using digital PABX and structured telephone network which supports voice over IP (VOIP) technology. DICT offers technical support to staff and students in the use of the ICT systems and services.

The Directorate of ICT manages a number of electronic management information systems which has been implemented and used at MUHAS such as the Student Academic Records Information System (SARIS), integrated financial management system (EPCOR), Human Capital Management System (HCMIS), e-learning management system (Moodle), integrated library information system (KOHA), institutional repository system (DSpace), Open Journal System and Dental Management Information System at MUHAS dental clinic. Majority of the systems are based on free and open source systems thus servicing the University from paying a lot of money as license fees for proprietary systems.

DICT collaborates with the Directorate of Library Services to offer the Information Technologies (IT 100) course to all first year undergraduate and diploma students. DICT participates in training of health management information system modules for different postgraduate programmes. The directorate hosts ICT students on practical training from different Universities and training colleges within the country and from outside Tanzania. DICT participates in various research activities and consultancy services whereby members of academic staff have managed to publish a number of journal articles in international peer-reviewed journals and presented in both international and local scientific conferences.

To ensure proper usage of ICT facilities especially wireless internet services, students and staff must register their computers and other computing devices e.g. tablets and smart phones with DICT to deter the misuse of ICT facilities, which include inviting guests, friends and

others to use wireless in campus, to use computers for huge downloads of songs, movies and illicit materials. There is also ICT policy including security guidelines which indicated prohibited use of ICT facilities.



*MUHAS Students searching information in the Computer Lab at the University*

## CHAPTER TWO: SCHOOL OF MEDICINE

### 2.1 INTRODUCTION

The School of Medicine has committed itself to responding to major national and global challenges, in the contexts of a changing social, economic and political environment, and a substantial increase of student intake. The original School went through a number of milestones over the past 50 years to reach its present status. Recently completed major revisions of teaching programmes from traditional to competency-based curricula, make the School an indisputable centre of excellence in Tanzania. The original curriculum has also seen several changes from the earlier term system, through a traditional semester system and the current competency-based modularized semester education system.

The Mission and Vision of the School of Medicine are aligned to the mission and vision of the University. The Mission of the school is *“To sustain development of excellence in quality training of health and related professionals, research and service provision to the community using highly qualified experts within a state of the art environment”*

The Vision of the school is *“To be a competent and competitive School with an international reputation in quality training, research and service provision”*

The functions of the School and its activities are guided by the core components of its mission, which are: -

- (i) To be directly engaged in the creation, transmission and evaluation of knowledge in medical sciences, laboratory and radiation therapy treatment technologies in the pursuit of excellence in academic scholarship and intellectual inquiry through teaching, research and provision of advisory and public medical related services.
- (ii) To provide a place of learning, education and research in medical, laboratory and radiation therapy treatment technology sciences and through this provide quality services commensurate with a good medical School.
- (iii) To provide the labor market in Tanzania and Eastern Africa, with highly competent medical professionals and technologists able to contribute effectively to prevention, treatment and management of the health-related problems of society. This is to be achieved through the prime principle of integrating research, teaching and advisory services in the immediate subject areas.
- (iv) To contribute to the intellectual and professional life of Tanzania and Eastern Africa and to act as a focal point for continuing professional development, research and services that are of interest to the people of Tanzania.

In terms of output delivery, the functions of the School can be stated as:

- (i) To provide post-graduate education in different specialties and superspecialties of medicine
- (ii) To support teaching of students/trainees from other Schools/Institutes at MUHAS as well as for stakeholders that are external to the University.

- (iii) To prepare and publish, in its own right, medical educational materials in various fields of the clinical, diagnostic and biomedical sciences.
- (iv) To conduct in its own right medical research and disseminate findings.
- (v) To carry out contracted medical research on behalf of third party clients
- (vi) To carry out scientific educational, professional and technical consultancy services on behalf of third party clients.
- (vii) To engage in cost containment and income generating ventures related to its outputs.
- (viii) To provide in Tanzania a place of learning, education and research in health sciences and through these provide medical services of the highest standard and quality required and expected of a University.

The School of Medicine provides a highly dynamic environment for teaching and learning, research and service. Master Programmes have undergone major innovative methods for improving teaching and learning including the use of a State-of-the-Art High Fidelity Simulation Laboratory for Clinical teaching. Clinical staffs in the school provide services at the Muhimbili National Hospital, MUHAS Academic Medical Centre (MAMC), Muhimbili Orthopedic Institute, Ocean Road Cancer Institute, Lugalo Military Hospital, the Bagamoyo Training Unit, within various outreach clinical service programmes, and collaborate with many institutions nationally and internationally. The School has a research environment that enables the University to stay at the cutting edge of medical and related research. Faculty in the School has begun to utilize the field of Information Communication Technology (ICT) for E-learning to keep pace with developments in the field and disciplines of medicine nationally and globally. Since the world is increasingly becoming more like one village, the school has realized that health is a global issue; understanding of and solutions to global concerns such as HIV/AIDS, tuberculosis, avian flu, zika virus infection, injecting drug use, or the ravages of war cannot be confined to one country or even one continent. Therefore, there is need to ensure that students are conversant with global perspectives of health and health care.

Considering our mission and vision, the School in return expects that students undertake the programmes offered by the school with all enthusiasm, ethical conduct and professionalism and endeavor to become role models in their country. Competency based education introduced in the academic year 2011/12, shifts teaching and learning in the school to a new paradigm, to ensure our graduates develop appropriate competencies and be responsive to the societies they will serve upon completion of their studies. Below is a description of the competency-based education programmes.

## 2.2 PROGRAMMES

### 2.2.1 MASTER OF SCIENCE DEGREE PROGRAMMES

#### 2.2.1.1 MSc Anatomy Programme

This is a four semester (two years) programme intended to train Anatomists.

##### 2.2.1.1.1 Entry requirements

- 1) Holder of Doctor of Medicine (MD) or Doctor of Dental Surgery (DDS) of this university or Graduates from other recognized Universities who have been admitted to the status of Doctor of Medicine, Doctor of Dental Surgery or equivalent, provided they have a minimum GPA of 2.7 at undergraduate level.
- 2) Holders of BVM, BSc in Human Anatomy or Bachelor of Science in Physiotherapy from recognized Universities with a minimum GPA of 2.7 at undergraduate level.

##### 2.2.1.1.2 MSc Anatomy Degree Programme courses

Code	Course Name	Lectures	Seminar/ Tutorials	Assignments	Independent Study	Practicals	Total Hours	Credits
<b>SEMESTER 1: 70.0 CREDITS</b>								
AN 600.01	Gross Anatomy	45	130	45	90	126	436	43.6
BM 600	Molecular Biology	15	45	15	30	42	147	14.7
ER 600	Epidemiology & Biostatistics	6	15	6	10	20	57	5.7
EE 600	Bioethics	6	18	6	15	15	60	6.0

<b>SEMESTER 2: CREDITS 70.0</b>								
AN600.02	Histology	22.5	67.5	22.5	45	67.5	225	22.5
BM 601	Advance Molecular Biology	18	54	18	36	54	180	18.0
EH 600	Educational Principles	10	30	10	20	30	100	10.0
AN 699	Dissertation	19.5	58.5	19.5	39	58.5	195	19.5

Code	Course Name	Lectures (Hrs)	Seminar/ Tutorials (Hrs)	Assignments (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 3: Credits 70.0</b>								
AN 600.03	Clinical Embryology	18	54	18	36	54	180	18.0
AN 699	Dissertation	52	156	52	104	156	520	52.0
Code	Course Name	Lectures (Hrs)	Seminar/ Tutorials (Hrs)	Assignments (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 4: Credits 70.0</b>								
AN 600.04	Neuroanatomy	18	54	18	36	54	180	18.0
AN 699	Dissertation	52	156	52	104	156	520	52.0

### 2.2.1.2 Master of Science in Biochemistry Programme

This is a four semester (two years) programme whose main goal is to train and produce highly qualified and skilled Biochemists, with professional competence in teaching, research and consultancy in order to address the present human resource shortage in this profession in the University and the country at large.

#### 2.2.1.2.1 Entry requirements

- (i) Graduates with MD, DDS, B. Pharm, BScRTT, BMLS of this or other University with a minimum of B grade in Biochemistry and cumulative GPA of 2.7 at undergraduate level.
- (ii) Graduates from other recognized universities who have completed their studies and earned MD, DVM or equivalent and who have a minimum grade of B in Biochemistry and cumulative GPA of 2.7 at undergraduate level.
- (iii) Holders of BSc in Biochemistry, Molecular biology, Chemistry, Biology or Zoology, Biotechnology, and Microbiology with a minimum grade of B in Biochemistry and cumulative GPA of 2.7 at undergraduate level.

#### 2.2.1.2.2 MSc Biochemistry Degree Programme courses

Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 75</b>								
BC 602	Cell Biology and Proteins	100	90	35	65	60	350	35
ER 600	Epidemiology, Biostatistics and Research Methodology	15	15	20	20	20	90	9
EE 600	Bioethics	10	14	6	15	15	60	6
BC 699.1	Dissertation 1: proposal Development and Presentation	25	70	30	60	45	250	25

<b>SEMESTER 2: Credits 75</b>								
BC 603	Topic in Biochemistry	80	40	25	40	35	220	22
BM 601	Molecular Biology	70	40	25	40	45	220	22
HE 600	Educational Principles and Practices for Health Sciences Professionals	10	30	10	20	30	100	10
BC 699.2	Dissertation Proposal Development and Presentation	25	55	30	50	50	210	21

<b>SEMESTER 3: Credits 75</b>								
BC 604	Selected Topics in Biochemistry	40	60	40	100	60	300	30
BC 699.3	Data Analysis and Report Writing	40	115	50	105	140	450	45

<b>SEMESTER 4: Credits 75</b>								
BC 605	Special topics in Biochemistry	40	50	50	100	60	300	30
BC 699.4	Dissertation Submission, Defense and dissemination	50	120	40	110	120	450	45

### 2.2.1.3 Master of Science in Clinical Pharmacology Programme

This is a four semester (two years) programme intended to train Clinical Pharmacologists.

#### 2.2.1.3.1 Entry requirements

- Holders of the MD, DDS, BPharm and BSc Nursing degrees of this University with a minimum cumulative GPA of 2.7 at undergraduate level.
- Graduates from other Universities who have been admitted to the status of MD, DDS, B. Pharm and BSc Nursing or equivalent, provided they have a minimum cumulative GPA of 2.7 at undergraduate level.
- Holders of BSc. in Pharmacology from recognized Universities with a minimum cumulative GPA of 2.7 at undergraduate level.
- Holders of Bachelor of Veterinary Medicine (BVM) or its equivalent from a recognized University with at least a minimum cumulative GPA of 2.7 at undergraduate level.

#### 2.2.1.3.2 MSc Clinical Pharmacology Programme Courses

Code	Course name	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1:Credits 52.7</b>								
CL 601.01	Molecular pharmacology	3	52	12	72	4	143	14.3
CL 601.02	Therapeutics	3	48	12	68	2	133	13.3
EE 600	Bioethics	6	18	6	18	12	60	6
ER 600	Epidemiology, Biostatistics and Research Methodology	6	30	10	22	18	86	8.6
PH 600	Clinical physiology	4	67	10	20	4	105	10.5
<b>SEMESTER 2: Credits 74.4</b>								
CL 602	Clinical pharmacokinetics	4	40	6	20	4	74	7.4

	and Drug metabolism							
BM 601	Advanced molecular biology	18	54	18	36	54	180	18
CL 699.01	Dissertation Proposal Development	10	10	10	60	300	390	39
HE 600	Education Principles & Practices for Health Sciences Professionals	68	5	10	15	2	100	10

**SEMESTER 3: Credits 86.1**

CL 603	Methods & Measurement in Pharmacology	4	30	4	25	12	75	7.5
CL 699.02	Dissertation Data Collection	19	19	19	190	539	786	78.6

**SEMESTER 4: Credits 78.6**

CL 699.03	Dissertation (Proposal development, Data Collection, Analysis, Report writing and Defence	19	19	19	190	539	786	78.6
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### 2.2.1.4 MSc Clinical Psychology Programme

This program provides a solid foundation in the scientific basis and practice of clinical psychology and professional skills through a combination of coursework, supervised clinical practice, and research. Students are required to gain competencies and transferable skills across a range of clinical problems and settings employing evidence-based best practice models in health and mental health settings.

#### 2.2.1.4.1 Entry requirements

- (i) Holders of a BSc in Psychology or Counseling Psychology of this University with at least a cumulative GPA of 2.7 at undergraduate level.
- (ii) Graduates from other Universities who have been admitted to the status of BSc Psychology or BSc Counseling Psychology or equivalent, provided they have a cumulative GPA of 2.7 at undergraduate level

#### 2.2.1.4.2 MSc Clinical Psychology Degree Programme Courses

Code	Course name	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 89</b>								



ER 600	Epidemiology, Biostatistics and Research Methodology	6	30	10	22	18	86	8.6
EE 600	Bioethics	6	18	6	18	12	60	6
CP 600	Foundation of Clinical Psychology	20	110	20	20	46	216	21.6
CP 601	Clinical Psychopathology and Classification in Psychiatry	40	170	25	20	42	297	29.7
CP 602	Basic Medical Sciences contribution to Clinical Psychology	30	120	25	20	36	231	23.1

#### **SEMESTER 2: Credits 76.2**

CP 603	Basic Medical Sciences Contribution to Clinical Psychology	32	128	32	20	156	368	36.8
HE 600	Educational Principles and Practices for Health Sciences Professionals	68	5	10	15	2	100	10
CP 699	Dissertation	20	80	20	20	154	294	29.4

#### **SEMESTER 3: Credits 66.9**

CP 604	Clinical Psychology with Special Patient Populations	33	130	33	20	154	370	37
CP 699	Dissertation	25	98	25	30	121	299	29.9

#### **SEMESTER 4: Credits 67.9**

CP 605	Clinical Health Psychology	33	130	33	30	154	380	38
CP 699	Dissertation	25	98	25	30	121	299	29.9

### **2.2.1.5 MSc Microbiology and Immunology**

This is the four-semester course whose aim is to train and produce highly qualified and skilled scientist with professional competence in teaching, research and consultancy in order to provide the much needed expertise in laboratory services

#### **2.2.1.5.1 Entry requirements**

- (i) Possession of the MD, DDS, BSc N, B.Pharm, BMLS, BSc EHS, of this University with at least a B grade passes in Microbiology and or cumulative GPA of 2.7 at graduation.

- (ii) Graduates from other Universities who have been admitted to the status of MD, DDS, B.Pharm, BMLS, BSc EHS BSc N or equivalent, provided they have a B grade and cumulative GPA of 2.7 upon graduation
- (iii) Holders of BSc in Microbiology, BSc Applied Microbiology, BSc in Food Science and Technology and Bachelor of Veterinary Medicine (BVM) from recognized Universities with cumulative GPA of 2.7 or above and with overall B grade or above in Microbiology.

#### 2.2.1.5.2 MSc Microbiology and Immunology Degree Programme courses

Course code	Course Name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 75.5</b>								
ER 600	Epidemiology, Biostatistics and Research Methodology	6	30	10	22	18	86	8.6
BM 600	Cell and Molecular Biology	8	31	8	38	70	155	15.5
MI 600	General and systematic bacteriology and mycology	5	50	12	60	114	241	24.1
PE 600	Parasitology & medical Entomology	5	42	10	61	95	213	21.3
EE 600	Bioethics	6	18	6	18	12	60	6

Course Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independence Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 2: 64.5 Credits</b>								
HE 600	Educational Principles and Practices for Health Sciences Professionals	68	5	10	15	2	100	10
MI 601	Virology, Immunology and Laboratory Practice	6	130	34	70	305	545	54.5
<b>SEMESTER 3: Credits 78.7</b>								
MI 602	Applied Medical Microbiology and Laboratory Rotation	6	95	32	65	307	505	50.5
MI 699.01	Dissertation – Proposal development	3	12	16	65	186	282	28.2
<b>SEMESTER 4: Credits 81.3</b>								

MI 699.02	Dissertation-Data collection	4	17	22	60	230	333	33.3
MI 699.03	Dissertation - Data analysis and Report	4	14	19	58	162	257	25.7
MI 699.04	Dissertation - Submission and Examination	3	6	16	58	140	223	22.3

### 2.2.1.5 MSc Physiology Programme

This is the four-semester course whose aim is to train and produce highly qualified and skilled Physiologists with professional competence in teaching, research and consultancy in order to address the current acute shortage of human resource in this profession at this University and in the country as a whole.

#### 2.2.1.5.1 Entry requirements

- (i) Holders of MD, DDS, B. Pharm, BMLS, BScRTT and BSc N degrees of this University with at least a B grade in Physiology and cumulative GPA of 2.7 or above at undergraduate level.
- (ii) Graduates from other Universities who have been admitted to the status of MD, DDS, B. Pharm, BMLS, BScRTT and BSc N or equivalent, provided they have a B grade and cumulative GPA of 2.7 or above at undergraduate level.
- (iii) Holders of BSc. in Physiology from recognized Universities with a cumulative GPA of 2.7 or above.
- (iv) Holders of Bachelor of Veterinary Medicine (BVM) or its equivalent from a recognized University with at least a B grade in Physiology and cumulative GPA of 2.7 or above at undergraduate level.

#### 2.2.1.5.2 MSc Physiology Degree Programme courses

Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 76.4</b>								
PH 601	Body fluids and excitable tissues	100	88	80	92	102	462	46.2
BM 600	Molecular Biology	8	31	8	38	70	155	15.5
EE 600	Bioethics	40	12	2	4	2	60	6.0
ER 600	Epidemiology, Biostatistics and Research Methodology	6	30	10	22	18	86	8.6
<b>SEMESTER 2: Credits 81.7</b>								
PH 602	Metabolism and homeostatic physiology	115	76	40	60	71	362	36.2

NU 600	Nutrition	65	20	35	40	10	170	17.0
HE 600	Educational Principles and Practices for Health Sciences Professionals	5	20	5	25	45	100	10
PH 699	Dissertation-1	10	15	46	110	4	185	18.5
<b>SEMESTER 3: Credits 71.5</b>								
PH 603	Control system	64	62	24	58	36	244	24.4
SP 600	Sports (exercise) physiology	10	46	30	32	18	136	13.6
PH 699	Dissertation II	36	18	106	155	20	335	33.5
<b>SEMESTER 4: Credits 71.5</b>								
PH 699	Dissertation III	10	35	54	578	18	71.5	71.5

### 2.2.1.6 MSc Histotechnology Programme

This is a four semester (2 year) degree programme intended to train highly skilled professionals for certification in histotechnology.

#### 2.2.1.6.1 MSc Histotechnology Entry Requirements

- (i) Candidates for admission into the Master of Sciences in Histotechnology (MSCHT) Degree shall hold a Bachelor in Medical Laboratory Sciences (BMLS General or BMLS Histotechnology) degree of this University, its predecessor or an equivalent degree (BSc Medical Laboratory) from another recognized University.
- (ii) Candidates should have an overall GPA of 2.7 or above.

#### 2.2.1.6.2 MSc Histotechnology Courses

Code	Course name	Lecture Hrs	Tutorial/Seminar Hrs	Assignment	Independent Study	Practical hrs	Total hrs	Credits
<b>SEMESTER 1: Credits 76.8</b>								
HT 600	Principles of Pathology for Advanced Histotechnology	20	80	50	50	252	452	45.2
BM 600	Molecular Biology	30	70	40	13	2	155	15.5
ER 600	Epidemiology, Biostatistics and Research Methodology	10	61	20	7	3	101	10.1
EE 600	Bioethics	40	10	5	3	2	60	6.0
<b>SEMESTER 2 : Credits 76.8</b>								
HT 601	Medical Laboratory	10	50	20	20	218	318	31.8

	Practice and Introduction to Histopathology Laboratory							
HT 669.01	Dissertation module I proposal ethical clearance and data collection	2	28	50	50	220	350	35.0
HE 600	Educational Principles and Practices for the Health Sciences Professionals	40	10	20	5	25	100	10.0
<b>SEMESTER 3: Credits 76.8</b>								
HT 669.02	Dissertation module II Data Analysis and Report writing	3	10	2	18	400	433	43.3
HT 602	Advanced laboratory techniques	2	8	20	5	300	335	33.5
<b>SEMESTER 4 : Credits 76.8</b>								
HT 603	Museum Techniques and Archiving	1	5	5	1	48	60	6.0
HT 604	Advanced Histotechnology Practice and Laboratory Management	4	4	10	50	540	608	60.8
HT 669.03	Dissertation module III Dissemination , submission and examination	5	5	15	10	65	100	10.0

### 2.2.1.7 Examination regulations for MSc Degree Programmes

- (i) General University Examination regulations on registration, registration for examination, professional conduct, eligibility for examination, absence from examination, Board of Examiners, conduct of examinations, Examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in Chapter one.
- (ii) The Master of Science (MSc) degrees are 4-semester programmes and the maximum tenure for the degree shall be 6 semesters.
- (iii) The maximum freezing period shall be 2 semesters.
- (iv) Registration of full-time students shall be once at the beginning of each semester.
- (v) There shall be at least two continuous assessment tests (CAT) and regular assessment of competencies for each module/modular course taught during each semester. The field reports shall also be marked and graded as CAT. The CAT and the regular assessment of competencies shall constitute the

Formative Assessment (FA) and the final end of module/modular course or rotation examination the Summative Assessment (SA)

- (vi) The FA shall contribute 50% of the final grade in the end of module/modular course/rotation university examinations.
- (vii) The FA and SA shall consist of written (quizzes, MCQ's, Essays, field reports, marked take home assignments and others) and practical/clinical components (Multisource rating, observation and rating by faculty, observation of live or recorded performances and rating, observation of procedures and rating, logbooks, portfolio, OSPE, OSCE and others). The proportional contribution for written and practical in SA will be 60 and 40% respectively in Basic Sciences and 40% and 60% in Practical/Clinical Sciences, but the FA will constitute 50% of the final grade in any case.
- (viii) A candidate will be considered to have passed a course after passing all modules/clinical rotations of the respective course.
- (ix) Decision making of the failing students shall be determined at the end of the audit year.
- (x) No candidate shall be allowed to sit for supplementary in more than three failed courses at any given time irrespective of GPA and shall be discontinued from the program.
- (xi) A candidate who scores a GPA of 2.4 or higher, but fails in 3 courses or less at end of the audit year shall be required to supplement in the failed modules in the course(s).
- (xii) A candidate who scores a GPA of 2.4 or higher, but fails in more than 3 courses shall be discontinued from studies.
- (xiii) A candidate who fails all courses shall be discontinued from the studies irrespective of the GPA.
- (xiv) A candidate may be allowed to sit for a second supplementary examination in failed course(s) if he or she has attained a GPA of 2.7 or above.
- (xv) A candidate who fails the second supplementary examination in semesters 1 - 2 for one or two-year programmes, shall be discontinued from the programme, except in special circumstances, if recommended by the School Board and Senate Higher Degrees Committee and approved by the Senate.
- (xvi) A candidate who fails the second supplementary examination in semesters 3-4 for two-year programmes and semesters 5-6 for three-year programmes shall be allowed to supplement the failed courses/modules/modular courses after semester four and six for two year and three-year programmes, respectively, provided the maximum tenure is not exceeded.
- (xvii) A candidate who passes a supplementary examination at any level shall be awarded a "B" grade.
- (xviii) No candidate will be allowed to repeat a semester except in very exceptional circumstances, on the recommendation of the School Board and approved by the Senate.
- (xix) A student shall be awarded the MSc degree after passing all courses and successful defense of a dissertation.

- (xx) General Regulations and Guidelines of Postgraduate Study Programmes shall be binding

#### **2.2.1.8 Regulations for MSc dissertations**

- (i) The dissertation shall consist of one research topic that will be within the field of specialization. This will be determined by the candidate and approved by the Department.
- (ii) Four copies of loosely bound dissertation shall be submitted to the Dean of the School of Medicine at least two months before semester 4 examinations. Candidates who do not submit an acceptable dissertation shall be barred from sitting for their examination.
- (iii) A candidate whose dissertation is considered unsatisfactory having passed all semester examinations shall be required to re-submit the dissertation for examination within three months in the case of minor corrections and within six months in the case of major corrections.
- (iv) For one to qualify for the award of MSc degree, he/she must pass all semester examinations and submit an error-free dissertation after examination.

#### **2.2.1.9 Grading System for MSc programmes**

Computation of the GPA for the MSc programmes shall be based on the number of credits approved for each course and shall be equated to the letter grade as shown below. However, the MSc degree shall not be classified: -

<b>Grade</b>	<b>A</b>	<b>B+</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>Percent</b>	100-70	69-60	59-50	49-40	39-0
<b>GP</b>	5.0-4.4	4.3-3.5	3.4-2.7	2.6-2.0	1.9-0

### 2.2.2 MASTER OF MEDICINE (MMED) PROGRAMMES

These are six semester (three years) competency-based programmes intended to train proficient and skilled human resource to improve the delivery of specialist health care services including research and training of other health professionals in the country. Trainees can specialize in any of the following disciplines: Anaesthesiology, Anatomical Pathology, Emergency Medicine, Clinical Oncology, Haematology and Blood Transfusion, Internal Medicine, Microbiology and Immunology, Obstetrics and Gynecology, Ophthalmology, Otorhinolaryngology, Orthopaedics and Traumatology, Paediatrics, Psychiatry, Radiology and Surgery. For each of these MMed programmes, the first semester is devoted for basic science core courses, which should be a minimum of five and a maximum of six. During semesters 2-6 trainees receive in-depth study of various discipline-specific courses and pursue a comprehensive apprenticeship in the patient care or laboratory settings depending on the subject of specialization. During semesters 3-6, trainees design, conduct and report research work, which forms the dissertation, in partial fulfillment for the award of the respective MMed degree.



*MUHAS postgraduate students in a practical session*



### 2.2.2.1 Entry requirements

- (i) A holder of a Doctor of Medicine (MD) degree of this University with a minimum cumulative GPA of 2.7 at undergraduate level and who complies with the regulations set out under 1.4.2.
- (ii) A medical graduate of a recognized University who has been admitted to the status equivalent to Doctor of Medicine, (NOT DDS) with a minimum cumulative GPA of 2.7 at undergraduate level and who complies with the regulations set out under 1.4.2. MD equivalent degrees are MB ChB and MBBS.

### 2.2.2.2 Master of Medicine (MMed) Degree Programmes

#### 2.2.2.2.1 MMed Anaesthesiology Degree Programme courses

Course code	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 78</b>								
PH 600	Clinical Physiology	4	67	10	20	4	105	10.5
CL 601	Principles of Clinical Pharmacology and Chemotherapy	6	39	6	12	2	65	6.5
CL 602	Therapeutics	3	28	3	8	2	44	4.4
ER 600	Epidemiology, Biostatistics and Research Methodology	6	30	10	22	18	86	8.6
MI 606	Microbiology and Immunology	5	72	10	20	5	112	11.2
EE 600	Bioethics	6	18	6	18	12	60	6.0
MA 600	General Principles of Anaesthesia	15	62	15	77	139	308	30.8
<b>SEMESTER 2: Credits 89</b>								
MA 601	Anaesthesia for general surgery, obstetrics and gynaecology	40	158	40	198	356	790	79.0
HE 600	Educational principles and practices for the health sciences professionals	68	5	10	15	2	100	10.0
<b>SEMESTER 3: Credit 89</b>								
MA 602	Anaesthesia for surgical super speciality	34	136	34	170	306	680	68.0

MA 699	Dissertation (Proposal writing and ethical clearance)	11	42	11	53	95	210	21.0
<b>SEMESTER 4: Credits 89</b>								
MA 603	Anaesthesia for Trauma, Orthopedic and Neurosurgery	33	133	33	167	300	667	66.7
MA 699	Dissertation data collection	11	45	11	56	100	223	22.3
<b>SEMESTER 5: Credits 90</b>								
MA 604	Cardio vascular and thoracic anaesthesia course	33	134	33	167	301	669	66.9
MA 699	Dissertation data analysis	12	46	12	58	104	231	23.1
<b>SEMESTER 6: Credits 90</b>								
MA 605	Critical care medicine, transfer medicine, emergency medicine and disaster management	33	134	33	167	301	668	66.8
MA 699	Dissertation report writing and defence	12	46	12	58	104	232	23.2

#### 2.2.2.2.2 MMed Anatomical Pathology Degree Programme courses

Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 62.2</b>								
PA 600	Principles of pathology and Haematology	16	64	16	80	145	321	32.1
BM 600	Molecular biology credits	8	31	8	38	70	155	15.5
ER 600	Epidemiology, biostatistics and research methodology	6	30	10	22	18	86	8.6
EE 600	Bioethics	6	18	6	18	12	60	6
<b>SEMESTER 2: Credits 91.6</b>								
PA 601	Surgical pathology	29.6	128.4	29.6	148	276.4	612	61.2

PA 602	Introduction to laboratory methods and cancer registry	61.25	45	61.25	43.75	88.75	195	19.5
HE 600	Educational principles and practices for the health science professionals	10.9	32.7	10.9	5.45	49.05	109	10.9
<b>SEMESTER 3 : Credits 91.6</b>								
PA 603	Surgical pathology 2- Neuropathology , MSS, Head and Neck LRS and Cytopathology	23.4	103.6	23.4	117	220.6	488	48.8
PA 604	Advanced laboratory methods	10	50	10	50	100	220	22.0
PA 699	Dissertation (Proposal writing)	9.95	43.8	9.95	49.75	94.55	208	20.8
<b>SEMESTER 4 : Credits 91.6</b>								
PA 605	Forensic & clinical Autopsy pathology	30	130	30	150	280	639	63.9
PA 699	Dissertation data collection	5.54	8.31	13.85	166.2	83.10	277	27.7
<b>SEMESTER 5 : Credits 91.6</b>								
PA 606	Junior pathology practice rotation	30	130	30	150	280	639	63.9
PA 699	Dissertation data analysis	5.54	8.31	13.85	166.2	83.10	277	27.7
<b>SEMESTER 6: Credits 91.6</b>								
PA 607	Senior pathology practice rotation	30	130	30	150	280	639	63.9
PA 699	Dissertation report writing and defence	5.54	8.31	13.86	166.2	83.10	277	27.7

#### 2.2.2.2.3 MMed Clinical Oncology Degree Programme courses

Course code	Course Name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 73.1</b>								

PA 600	Principles of pathology	16	64	16	80	145	321	32.1
ER 600	Epidemiology, biostatistics and research methodology	6	30	10	22	18	86	8.6
BM 600	Cell and molecular biology	8	31	8	38	70	155	15.5
CL 600	Clinical pharmacology and principles of cancer chemotherapy and endocrine therapy	9	67	9	20	4	109	10.9
EE 600	Bioethics	6	18	6	18	12	60	6
<b>SEMESTER 2: Credits 90</b>								
BP 605	Basic radiation physics	7	28	7	105	63	210	21
AP 605	Applied radiation physics	5	20	5	95	45	170	17
HE 600	Educational principles and practices for the health science professionals	5	20	5	25	45	100	10
RT 605.2	Clinical Apprenticeship	5	5	10	100	300	420	42
<b>SEMESTER 3: Credits 90</b>								
RB 605	Radiobiology	6	23	6	29	52	116	11.6
RR 699	Dissertation proposal	10	40	10	52	100	212	21.2
RT 605.3	Clinical Apprenticeship	4	10	60	118	380	572	57.2
<b>SEMESTER 4: Credits 90</b>								
RE 605	Radiotherapy equipment	8	33	8	41	79	169	16.9
CE 605	Cancer epidemiology and prevention	7	27	7	34	80	136	13.6
RR 699	Dissertation data collection	6	42	16	62	101	227	22.7
RT 605.4	Clinical Apprenticeship	5	5	20	120	199	349	34.9
<b>SEMESTER 5: Credits 90</b>								
RP 605	Radiotherapy planning process	9	38	9	36	85	177	17.7
RR 699	Dissertation Analysis	12	50	12	59	96	229	22.9

RT 605.5	Clinical Apprenticeship	5	5	24	160	300	494	49.4
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#### 2.2.2.2.4 MMed Emergency Medicine Degree Programme courses

Course code	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 80</b>								
PH 600	Clinical Physiology	4	67	10	20	4	105	10.5
CL 601	Principles of Clinical Pharmacology and Chemotherapy	6	39	6	12	2	65	6.5
CL 602	Therapeutics	3	28	3	8	2	44	4.4
ER 600	Epidemiology, Biostatistics and Research Methodology	6	30	10	22	18	86	8.6
MI 606	Microbiology and Immunology	5	72	10	20	5	112	11.2
EE 600	Bioethics	6	18	6	18	12	60	6
EM 600	Introduction to Emergency Medicine	16	66	16	82	148	328	32.8
<b>SEMESTER 2: Credits 89</b>								
EM 601	Principles and Practice of Emergency Medicine	40	158	40	198	356	790	79
HE 600	Educational Principles and Practices for the Health Sciences Professionals	68	5	10	15	2	100	10
<b>SEMESTER 3: Credits 89</b>								
EM 602	Surgical Trauma, Obstetrics and Gynaecological Emergencies	33	132	33	165	297	660	66
EM 699	Dissertation Proposal	10	45	12	61	102	230	23
<b>SEMESTER 4: Credits 89</b>								
EM 603	Critical Care in Cardiac, Neurological, Paediatrics and Medical Emergencies	34	136	34	170	306	680	68

EM 699	Dissertation data collection	11	42	11	53	95	210	21
<b>SEMESTER 5: Credits 89</b>								
EM 604	External emergency medicine clinical apprenticeship	33	130	33	163	293	650	65
EM 699	Dissertation analysis	12	48	12	60	108	240	24
<b>SEMESTER 6: Credits 89</b>								
EM 605	Paediatric, Dental, Psychiatric, otorhinolaryngological and Ophthalmologic Emergencies	34	134	34	168	302	670	67
EM 699	Dissertation report writing and defence	11	44	11	55	99	220	22

#### 2.2.2.2.5 MMed Hematology and Blood Transfusion Degree Programme courses

Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 76.8</b>								
CL 600	Clinical Pharmacology and Therapeutics	10	95	25	30	15	175	17.5
BM 600	Molecular and Cellular Biology	8	70	11	38	40	167	16.7
PA 600	Principles of general and surgical pathology	10	165	25	40	40	280	28
ER 600	Biostatistics and Research Methodology	6	30	10	22	18	86	8.6
EE 600	Bioethics	6	18	18	18	12	60	6.0
<b>SEMESTER 2: Credits 89.4</b>								
HE 600	Educational Principles And Practices For Health Sciences Professionals	68	5	10	15	2	100	10
HB 600	Introduction to Haematology and Blood Transfusion	40	158	40	201	355	794	79.4
<b>SEMESTER 3: Credits 89.6</b>								

HB 601	Red Cell Disorders and Bone Marrow Failure Syndromes	34	135	34	169	303	675	67.5
HB 699	Dissertation - Proposal Writing and ethical clearance	11	44	11	55	100	221	22.1
<b>SEMESTER 4: Credits 89.8</b>								
HB 602	Blood Banking and Transfusion Medicine	34	135	34	169	303	675	67.5
HB 699	Dissertation - data collection	11	45	11	56	100	223	22.3
<b>SEMESTER 5: Credits 89.6</b>								
HB 603	Bleeding and Thrombotic Disorders	34	135	34	169	303	675	67.5
HB 699	Dissertation - data analysis and report writing	11	44	11	55	100	221	22.1
<b>SEMESTER 6: Credits 89.8</b>								
HB 604	Haematological Malignancies And Advanced Haematology And Blood Transfusion	34	135	34	169	303	675	67.5
HB 699	Dissertation Module IV, Report writing and Defence	11	45	11	56	100	223	22.3

#### 2.2.2.2.6 MMed Internal Medicine Degree Programme courses

Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 62.7</b>								
PH 600	Clinical Physiology	4	67	10	20	4	105	10.5
CL 600	Principles of Clinical Pharmacology and Chemotherapy	9	67	9	20	4	109	10.9
BM 600	Molecular and Cellular Biology	8	31	8	38	70	155	15.5
MI 606	Microbiology and Immunology	5	72	10	20	5	112	11.2

ER 600	Epidemiology, Biostatistics and Research Methodology	6	30	10	22	18	86	8.6
EE 600	Bioethics	6	18	18	18	12	60	6.0
<b>SEMESTER 2: Credits 84.8</b>								
HE 600	Educational Principles And Practices For Health Sciences Professionals	68	5	10	15	2	100	10
IM 601	Infectious diseases and Dermatology	37	150	37	187	337	748	74.8
<b>SEMESTER 3: Credits 94.4</b>								
IM 602	Cardiology and Respiratory Diseases	41	142	42	174	309	708	70.8
IM 699	Dissertation module I Proposal writing and ethical clearance	12	47	12	59	106	236	23.6
<b>SEMESTER 4: Credits 94.2</b>								
IM 603	Gastrointestinal, Nephrology, Endocrine & Metabolic Diseases	39	143	41	168	313	704	70.4
IM 699	Dissertation Module II – Research data collection	13	48	12	59	106	238	23.8
<b>SEMESTER 5: Credits 94.5</b>								
IM 604	Emergency Medicine, Haematology and Rheumatology	41	146	50	158	311	706	70.6
IM 699	Dissertation III Data analysis and report writing	11	49	13	60	106	239	23.9
<b>SEMESTER 6: Credits 94.4</b>								
IM 605	Neurology, Geriatrics and Oncology	39	148	48	148	309	692	69.2
IM 699	Dissertation Module IV Report writing and Defence	9	56	17	59	111	252	25.2



### 2.2.2.2.7 MMed Microbiology and Immunology Degree Programme courses

Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 76.8</b>								
ER 600	Epidemiology, Biostatistics and Research Methodology	6	30	10	22	18	86	8.6
BM 600	Cell and Molecular Biology	8	31	8	38	70	155	15.5
MI 600	General and systematic bacteriology and mycology	5	50	12	73	114	254	25.4
PE 600	Parasitology & Medical Entomology	5	42	10	61	95	213	21.3
EE 600	Bioethics	6	18	6	18	12	60	6.0
<b>SEMESTER 2: Credits 88.8</b>								
HE 600	Educational Principles and Practices for Health Sciences Professionals	68	5	10	15	2	100	10
MI 601	Virology, Immunology and Laboratory Practice	6	160	44	244	334	788	78.8
<b>SEMESTER 3: Credits 90.0</b>								
MI 602	Applied Medical Microbiology and Junior Laboratory Rotation	6	95	36	220	318	675	67.5
MI 699.01	Dissertations Module I Proposal writing	3	9	12	60	141	225	22.5
<b>SEMESTER 4: Credits 90.0</b>								
MI 603	Junior Clinical Rotation in Infectious Diseases	6	95	36	220	318	675	67.5
MI 699.02	Dissertations Module II, Data collection	3	9	12	60	141	225	22.5
<b>SEMESTER 5: Credits 90.0</b>								

MI 604	Infectious Disease Unit Attachment and Laboratory Management	6	95	36	220	318	675	67.5
MI 699.03	Dissertations Module III, Data analysis and report writing	3	9	12	60	141	225	22.5
<b>SEMESTER 6: Credits 90.0</b>								
MI 605	Senior Rotation and laboratory Management	6	95	36	220	318	675	67.5
MI 699.04	Dissertations Module IV, Report writing and defence	3	9	12	60	141	225	22.5

#### 2.2.2.2.8 MMed Obstetrics and Gynecology Degree Programme courses

Code	Course name	Lecture (Hrs.)	Tutorial/ Seminar (Hrs.)	Assign ment (Hrs.)	Independen t Study (Hrs.)	Practi cal (Hrs.)	Total (Hrs.)	Credits
<b>SEMESTER 1: Credits 90</b>								
PH 600	Clinical Physiology	4	67	10	20	4	105	10.5
ER 600	Epidemiolog y, biostatistics and research methodology	6	30	10	22	18	86	8.6
MI 606	Microbiolog y and Immunology	5	72	10	20	5	112	11.2
EE 600	Bioethics	6	18	6	18	12	60	6.0
PA 600	Principles of Pathology	16	64	16	80	145	321	32.1
AN 600	Anatomy	8	42	10	60	96	216	21.6
<b>SEMESTER 2: Credits 87.2</b>								
OG 600.01	Clinical Methods in Obstetrics and Gynecology	22	87	22	109	196	436	43.6
OG 600.02	Modular course: Emergency Obstetrics & Gynecology	22	87	22	109	196	436	43.6
<b>SEMESTER 3: Credits 87.2</b>								

OG 601.01	Operative Obstetrics & Gynecology	22	87	22	109	196	436	43.6
OG 601.02	Advanced Management of Obstetrics and Gynecological conditions	22	87	22	109	196	436	43.6
<b>SEMESTER4: Credits 87.2</b>								
OG 602.1	Family planning	22	87	22	109	196	436	43.6
OG 602.02	Community Obstetrics & Gynecology	22	87	22	109	196	436	43.6
<b>SEMESTER 5: Credits 87.2</b>								
OG 603	Clinical Specialties	22	87	22	109	196	436	43.6
OG 604	Contemporary Obstetrics & Gynecology policies and practices	22	87	22	109	196	436	43.6
<b>SEMESTER 6: Credits 70.7</b>								
OG 699.01.01	Dissertation I – Report writing and Ethical clearance	6	35	36	60	40	177	17.7
OG 699.01.02	Dissertation II – Data collection	6	53	13	74	119	265	26.5
OG 699.01.03	Dissertation III – data analysis and report writing	4	35	36	74	28	177	17.7
OG 699.01.04	Dissertation IV Report writing and defence	2	16	2	36	4	88	8.8

#### 2.2.2.2.9 MMed Ophthalmology Degree Programme courses

Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 88</b>								
PY 600	Ocular Physiology	6	24	6	30	54	120	12

AO 600	Ocular Anatomy	10	40	10	50	91	201	20.1
PO 600	Ophthalmic Pathology	10	41	10	51	93	205	20.5
OP 600	Principles of clinical optics	10	42	10	52	94	208	20.8
ER 600	Epidemiology, Biostatistics and Research Methodology	6	30	10	22	18	86	8.6
EE 600	Bioethics	40	12	2	4	2	60	6
<b>SEMESTER 2: Credits 88</b>								
OP 601	Introduction to clinical ophthalmology, refraction and low vision	38	154	38	192	358	780	78
HE 600	Educational Principles and Practices for Health Sciences Professionals	5	20	5	25	45	100	10
<b>SEMESTER 3: Credits 88</b>								
OP 602	Diseases of the Orbit, ocular adnexa and cornea.	31	126	31	158	284	630	63
OP 699	Dissertation module 1 - Proposal Writing and Ethical Clearance	12	50	12	63	113	250	25
<b>SEMESTER 4: Credits 88</b>								
OP 603	Glaucoma, uveal diseases and cataract	31	126	31	158	284	630	63
OP 699	Dissertation module 2 - Data Collection	12	50	12	63	113	250	25
<b>SEMESTER 5: Credits 88</b>								
OP 604	Neuro-ophthalmology, Paediatric ophthalmology and strabismus	31	126	31	158	284	630	63
OP 699	Dissertation module 3- Data Analysis and Report Writing	12	50	12	63	113	250	25
<b>SEMESTER 6: Credits 88</b>								

OP 603	Vitreo-retinal and systemic diseases and community ophthalmology	31	126	31	158	284	630	63
OP 699	Dissertation module 4 - Submission, Examination and Dissemination	12	50	12	63	113	250	25

#### 2.2.2.2.10 MMed Orthopedics and Traumatology Degree Programme courses

Code	Course	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 88.5</b>								
AN 601	Histology and Embryology	16	62	16	78	141	313	31.3
PH 600	Clinical Physiology	4	67	10	20	4	105	10.5
PA 600	Principles of Pathology	16	64	16	80	145	321	32.1
ER 600	Epidemiology, Biostatistics and Research Methodology	6	30	10	22	18	86	8.6
EE 600	Bioethics	6	18	6	18	12	60	6
<b>SEMESTER 2: Credits 88.3</b>								
OT 600	Principles of Surgery and General Orthopaedics	39	157	39	196	352	783	78.3
HE 600	Educational Principles and Practices for Health Professionals	68	5	10	15	2	100	10
<b>SEMESTER 3: Credits 88.3</b>								
OT 601	Basic Orthopaedics and Traumatology	32	131	33	163	294	653	65.3

OT 699	Dissertation (Proposal development)	11	11	46	57	105	230	23
<b>SEMESTER 4: Credits 88.3</b>								
OT 602	Specialties	32	131	33	163	294	653	65.3
OT 699	Dissertation data collection	11	11	46	57	105	230	23
<b>SEMESTER 5: Credits 88.3</b>								
OT 603	Orthopaedics and Traumatology	32	131	33	163	294	653	65.3
OT 699	Dissertation analysis	11	11	46	57	105	230	23
<b>SEMESTER 6 : Credits 88.3</b>								
OT 604	Orthopaedics and traumatology	34	134	34	168	303	673	67.3
OT 699	Dissertation report writing and defence	6	16	42	58	88	210	21

#### 2.2.2.2.11 MMed Otorhinolaryngology Degree Programme courses

Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assign ment (Hrs)	Independen t Study (Hrs)	Practi cal (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 88.4</b>								
OL 600	Applied anatomy and physiology of the head and neck	4	24	4	32	61	125	12.5
AN 603	Anatomy	20	70	20	20	50	180	18
PA 600	Principles of general and surgical pathology	16	64	16	80	145	321	32.1
MI 608	Microbiology and Immunology	5	72	10	20	5	112	11.2
ER 600	Epidemiology, Biostatistics and Research Methodology	6	30	10	22	18	86	8.6
EE 600	Bioethics	6	18	6	18	12	60	6
<b>SEMESTER 2 :Credits 88.4</b>								
OL 601	Otology	39	157	39	196	353	784	78.4

HE 600	Educational Principles and Practice for the health Sciences Professionals	5	20	5	25	45	100	10.0
<b>SEMESTER 3 : Credits 92</b>								
OL 602	Clinical Rotation in Thoracic, Maxillofacial and Neurosurgery	33	132	33	164	297	659	69.5
OL 699	Dissertation Proposal	11	45	11	57	101	225	22.5
<b>SEMESTER 4: Credits 92</b>								
OL 603	Diseases of the Nose, Paranasal Sinuses, Throat and Head and Neck	33	132	33	164	297	659	69.5
OL 699	Dissertation Data Collection	11	45	11	57	101	225	22.5
<b>SEMESTER 5: Credits 88.4</b>								
OL 604	Advanced Surgical Procedures for the Nose, Paranasal Sinuses, Throat , Head and Neck	32	126	32	158	286	634	63.4
OL 699	Dissertation Data analysis and Reporting	12	50	12	63	113	250	25.0
<b>SEMESTER 6 : Credits 88.4</b>								
OL 605	Advanced surgical procedures for the ear and salivary glands	39	157	39	196	353	784	78.4
OL 699	Dissertation Submission, examination and dissemination	5	20	5	25	45	100	10.0

#### 2.2.2.2.12 MMed Paediatrics and Child Health Degree Programme courses

Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 60.5</b>								
PH 600	Clinical Physiology	4	67	10	20	4	105	10.5
CL 600	Clinical pharmacology	9	67	9	20	4	109	10.9
MI 606	Microbiology and Immunology	5	72	10	20	5	112	11.2
BC 600	Biochemistry	6	30	8	33	56	133	13.3

ER 600	Epidemiology, Biostatistics and Research Methodology	6	30	10	22	18	86	8.6
EE 600	Bioethics	6	18	6	18	12	60	6
<b>SEMESTER 2: Credits 92.4</b>								
HE 600	Educational Principles and Practices for the Health Sciences Professionals	5	20	5	25	45	100	10
CH 600	General, developmental, Preventive Paediatrics and nutrition	9	110	9	253	443	824	82.4
<b>SEMESTER 3: Credits 92.5</b>								
CH 601	Immunology, allergy and infectious diseases	14	137	14	253	307	725	72.5
CH 699	Dissertation proposal development	10	40	10	50	90	200	20
<b>SEMESTER 4: Credits 92.5</b>								
CH 602	Disorders of Organ Systems in Childhood	32	128	32	201	289	684	68.4
CH 699	Dissertation data collection	12	48	12	60	108	241	24.1
<b>SEMESTER 5: Credits 92.5</b>								
CH 603	Paediatric Haematology-Oncology, dermatology and metabolic disorders	32	126	32	199	283	671	67.1
CH 699	Dissertation analysis	13	51	13	64	113	254	25.4
<b>SEMESTER 6: Credits 92.5</b>								
CH 604	Accidents, Poisoning, Community Paediatrics and Adolescent Medicine	34	136	34	211	305	720	72
CH 699	Dissertation report writing and defence	10	41	10	51	92	205	20.5



### 2.2.2.2.13 MMed Psychiatry Degree Programme courses

Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 90</b>								
BM 600	Molecular biology	8	31	8	38	70	155	15.5
BC 600	Biochemistry	6	25	6	32	56	125	12.5
EE 600	Bioethics	6	18	6	18	12	60	6
ER 600	Epidemiology, Biostatistics and Research Methodology	6	30	10	22	18	86	8.6
PS 600	Basic Medical Sciences Specific for Psychiatry	24	95	24	118	213	474	47.4
<b>SEMESTER 2: Credits 91.0</b>								
PS 601	Psychological, Social and Measurement Sciences in Psychiatry	19	52	29	93	97	290	29.0
PS 602	General adult psychiatry	40	100	30	100	250	520	52.0
HE 600	Educational Principles and Practices for Health Sciences Professionals	68	5	10	15	2	100	10.0
<b>SEMESTER 3: Credits 87</b>								
PS 603	Child and Adolescent, Liaison and Emergency Care and Addiction Psychiatry	33	130	33	154	290	640	64
PS 699	Dissertation proposal and ethical approval	11	44	11	60	104	230	23
<b>SEMESTER 4: Credits 87</b>								
PS 604	Forensic Psychiatry	33	130	33	163	291	650	65
PS 699	Dissertation data collection	11	44	11	55	99	220	22
<b>SEMESTER 5: Credits 87</b>								
PS 605	Old Age and Rehabilitation Psychiatry	33	130	33	163	291	650	65
PS 699	Dissertation data analysis	11	44	11	55	99	220	22
<b>SEMESTER 6: Credits 87</b>								

PS 606	Social and Community Psychiatry	33	130	33	163	291	650	65
PS 699	Dissertation report writing and defence	11	44	11	55	99	220	22

#### 2.2.2.2.14 MMed Radiology Degree Programme courses

Code	Course name	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 88.3</b>								
AR 600	Radiological Anatomy	11	33	11	114	109	278	27.8
PR 600	Radiological physics	12	32	11	11	99	165	16.5
TR 600	Radiological procedures and Techniques	15	44	15	88	132	294	29.4
ER 600	Epidemiology, Biostatistics and Research Methodology	6	30	10	22	18	86	8.6
EE 600	Bioethics	9	3	3	18	27	60	6
<b>SEMESTER 2: Credits 83.5</b>								
RA 601	General Ultrasound	39	157	39	172	328	735	73.5
HE 600	Educational Principles and Practices for Health Sciences Professionals	68	5	10	15	2	100	10
<b>SEMESTER 3: Credits 88.3</b>								
RA 602	Musculoskeletal Imaging; Gastrointestinal and Hepatobiliary Imaging	32	110	35	182	294	653	65.3
RA 699	Dissertation proposal	11	11	46	57	105	230	23
<b>SEMESTER 4: Credits 88.3</b>								
RA 603	Genitourinary and chest imaging	30	99	31	209	284	653	65.3
RA 699	Dissertation data collection	5	53	13	51	108	230	23
<b>SEMESTER 5: Credits 88.3</b>								
RA 604	Central Nervous System, Head and Neck Imaging	22	108	41	209	273	653	65.3
RA 699	Dissertation data analysis	5	53	13	51	108	230	23
<b>SEMESTER 6: Credits 88.3</b>								
RA 605	Paediatrics, Breast imaging and Cardiovascular imaging	32	113	39	191	298	673	67.3
RA 699	Dissertation report writing and defence	11	8	42	48	101	210	21

### 2.2.2.2.15 MMed Surgery Degree Programme Courses

Code	Course name	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 88.5</b>								
AN 601	Anatomical pathology	16	62	16	78	141	313	31.3
PH 600	Clinical Physiology	4	67	10	20	4	105	10.5
PA 600	Principles of Pathology	16	64	16	80	145	321	32.1
ER 600	Epidemiology, Biostatistics and Research methodology	6	30	10	22	18	86	8.6
EE 600	Bioethics	6	18	6	18	12	60	6
<b>SEMESTER 2: Credits 88.3</b>								
SU 601	Principles of Surgery and Critical care in surgery	39	157	39	196	352	783	78.3
HE 600	Educational Principles and Practices for the Health Sciences Professionals	68	5	10	15	2	100	10
<b>SEMESTER 3: Credits 88.3</b>								
SU 602	Principles Gastrointestinal surgery	66	66	98	163	260	653	65.3
SU 699	Dissertation proposal development and Ethical clearance	11	11	46	57	105	230	23.0
<b>SEMESTER 4: Credits 88.3</b>								
SU 604	Principles of orthopaedic and neurotrauma, and thoracic surgery	65	65	98	163	261	653	65.3
SU 699	Dissertation Module 2.0: Data Collection	11	11	46	57	105	230	23.0
<b>SEMESTER 5: Credits 88.3</b>								
SU 605	ENT, Obstetrics/Gynaecology and Urology	55	55	98	163	260	653	65.3
SU 699	Dissertation Data analysis	11	11	46	57	105	230	23.0
<b>SEMESTER 6: Credits 88.3</b>								
SU 606	Transplantology, advances in surgery and comprehensive patient care	34	134	34	168	303	673	67.3
SU 699	Dissertation Module 4.0: Submission, Examination and Dissemination	6	16	42	58	88	210	21

### 2.2.2.2.16 MMed Urology Degree Programme Courses

Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 88.5</b>								
AN 601	Anatomical pathology	16	62	16	78	141	313	31.3
PH 600	Clinical Physiology	4	67	10	20	4	105	10.5
PA 600	Principles of Pathology	16	64	16	80	145	321	32.1
ER 600	Epidemiology, Biostatistics and Research methodology	6	30	10	22	18	86	8.6
EE 600	Bioethics	6	18	6	18	12	60	6

<b>SEMESTER 2: Credits 88.3</b>								
UR 601	Principles of Surgery and Critical care in surgery	76	76	116	192	323	783	78.3
HE 600	Educational Principles and Practices for the Health Sciences Professionals	68	5	10	15	2	100	10
<b>SEMESTER 3: Credits 88.3</b>								
UR 602	Basic Concepts and clinical assessment in Urologic Surgery	66	66	97	163	261	653	65.3
UR 699	Dissertation proposal	11	11	46	58	104	230	23.0

<b>SEMESTER 4: Credits 88.3</b>								
UR 603	Operative Urology, G-U Trauma, Urine Diversion, Urine incontinence, Scrotal Pathologies, Priapism	66	66	97	163	261	653	65.3
UR 699	Dissertation II	11	11	46	58	104	230	23
<b>SEMESTER 5: Credits 88.3</b>								

UR 604	Urology Specialties (Paediatric urology, Uro-oncology, Andrology&Uro-gynaecology, calculus disease,	55	55	98	163	282	653	65.3
UR 699	Dissertation III	11	11	46	57	105	230	23
<b>SEMESTER 6: Credits 88.3</b>								
UR 605	Current urologic practice and state of the art techniques	55	55	98	173	292	673	67.3
UR 699	Dissertation IV	6	16	42	58	88	210	21

### 2.2.2.3 Examination regulations for the MMed programmes

- (i) General University Examination regulations on registration, registration for examination, professional conduct, eligibility for examination, absence from examination, Board of Examiners, conduct of examinations, Examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in Chapter 1.
- (ii) The MMed programmes are six (6)-semesters and the maximum tenure for the MMed degree shall be eight (8) semesters.
- (iii) All modules or modular courses offered during a semester shall be examined at the end of the module or modular course or rotation. External examiners or moderators shall be invited at the end of the semester or audit year.
- (iv) There shall be at least two Continuous Assessment Tests(CAT) for each module/modular course or rotation taught during semester one and at least one CAT in each of semesters 2-6 and regular assessment of competencies. CAT and assessment of competencies shall form the Formative Assessment (FA).
- (v) The FA in semesters 2-6 shall consist of evaluation of clinical and other competency domains using appropriate tools in addition to written examination.
- (vi) The FA shall contribute 50% of the final grade in the end of module/modular course or rotation. The Summative Assessment (SA) shall include assessment of all competency domains using appropriate tools.
- (vii) The SA for semesters 2-6 shall consist of written, clinical/practical and oral components whose proportional contribution will be 40%, 50% and 10%, respectively, but the assessment shall be conducted as in (vi) above.
- (viii) To pass a module, course or rotation a candidate has to attain a B grade or higher.
- (ix) Decision-making on failing students in basic science modules/courses shall be determined at the end of the audit year.
- (x) Candidates who are full time graduate students are required to have attained a minimum GPA of 2.4 before proceeding to the following year of study.
- (xi) A candidate who passes the examination with a B grade or higher will be declared to have passed the examination.
- (xii) A candidate who scores a GPA of 2.4 or higher, but fails in 3 courses or less at end of the audit year shall be required to supplement in the failed modules in the course(s).

- (xiii) A candidate who scores a GPA of 2.4 or higher, but fails in more than 3 courses shall be discontinued from studies.
- (xiv) A candidate who fails all courses shall be discontinued from the studies irrespective of the GPA.
- (xv) A candidate may be allowed to sit for a second supplementary examination in failed course(s) if he or she has attained a GPA of 2.7 or above.
- (xvi) A candidate who fails the second supplementary examination in semesters 1 - 4 shall be discontinued from the programme, except in special circumstances, if recommended by the School Board and Senate Higher Degrees Committee and approved by the Senate.
- (xvii) A candidate who fails the second supplementary examination in semesters 5-6 shall be allowed to supplement the failed courses/modules/modular courses after semester six for two semesters, provided the maximum tenure is not exceeded.
- (xviii) A student who passes a supplementary examination at any level shall be awarded a "B" grade.
- (xix) To pass the end of module/modular course or rotation examinations in semesters 2-6 the written and clinical/practical parts have to be PASSED SEPARATELY
- (xx) No candidate shall be allowed to repeat any year of study on academic grounds, except with special permission or approval of the Senate upon recommendation of a School or Academic Institute Board and the Senate Higher Degree Committee as the case may be.
- (xxi) No candidate will be allowed to repeat a semester except in very exceptional circumstances, on the recommendation of the School Board and approved by the Senate.
- (xxii) A student shall be awarded the MMed degree after passing all examinations in the prescribed courses in the programme and submitting an error free dissertation.
- (xxiii) In addition to these regulations, the General Regulations and Guidelines of Postgraduate Study Programmes shall be binding.
- (xxiv) Notwithstanding the above regulations, postgraduate student shall observe civil service regulations and therefore entitled to only one leave in a year during the long vacation.

#### **2.2.2.4 Regulations on MMed dissertations**

- (i) The dissertation shall consist of one research topic. This will be determined by the candidate and approved by the department.
- (ii) Four loosely bound copies of the dissertation shall be submitted to the Dean of the School of Medicine at least THREE MONTHS before the beginning of semester 6 University examinations. A candidate who does not submit a dissertation at this period shall be barred from sitting for final examinations. The candidate shall be required to submit loosely bound copies of the dissertation not less than three months prior to the examination when next offered provided that the regulation on maximum tenure for MMed degree allows.
- (iii) Oral defense of the dissertation shall be done during the end of semester 6 University examinations.

- (iv) A candidate, having passed all semester examinations, shall be required to re-submit error-free dissertation within three months in the case of minor corrections and within six months if there are major corrections.
- (v) A dissertation re-submitted after major corrections shall be re-examined by both internal and external examiners
- (vi) In case of outright rejection of a dissertation a candidate may submit another dissertation for examination after nine months provided the maximum tenure allows.
- (vii) A dissertation rejected by examiners after re-submission shall not be accepted for re-examination at this University.

#### **2.2.2.5 Grading System for MMed programmes**

- (i) Computation of the GPA for the MMed programmes shall be based on the number of credits approved for each course and shall be equated to the letter grade as shown below. However, the MMed degree shall not be classified: -

<b>Grade</b>	<b>A</b>	<b>B+</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>Percent</b>	100-70	69-60	59-50	49-40	39-0
<b>GP</b>	5.0-4.4	4.3-3.5	3.4-2.7	2.6-2.0	1.9-0

### 2.2.3 MSc SUPER-SPECIALIZATION DEGREE PROGRAMMES

These are four semesters post-MMed programmes intended to train doctors to attain specialized knowledge and skills in various sub-disciplines.

#### 2.2.3.1 Entry requirements

- (i) Any holder of MMed degree in the relevant medical discipline of this University with good academic and professional conduct.
- (ii) Holders of a degree equivalent to MMed degree in relevant medical discipline from other approved Universities with good academic and professional conduct.

##### 2.2.3.1.1 MSc Cardiology Degree Programme

This is a four semester (two years) post MMed degree which produces specialists in Cardiology and provide clinical services to patients with cardiac diseases, train others and conduct operational research in the field of Cardiology.

##### 2.2.3.1.1.1 MSc Cardiology Degree Programme Courses

Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1 : Credits 82.8</b>								
CR 600	Applied basic science in cardiology	20	200	75	129	264	688	68.8
CR 699	Clinical audit - Proposal writing	1	1	80	38	20	140	14.0
<b>SEMESTER 2 : Credits 82.8</b>								
CR 601	Congenital heart diseases, pulmonary vascular disorders and coronary heart disease	20	220	49	87	242	618	61.8
CR 699	Clinical audit: Data collection	1	9	120	50	30	210	21.0
<b>SEMESTER 3: Credits 82.8</b>								
CR 602	Arrhythmias, Cardiomyopathies, Myocardial, Pericardial Diseases and Myocardial Tumors	20	120	134	100	314	688	68.8
CR 699	Clinical audit: Data management and analysis	1	1	20	38	80	140	14.0



<b>SEMESTER 4: Credits 82.8</b>								
CR 603	Peripheral Vascular Disorders and Cardiac Diseases in Special Groups	20	100	134	100	284	638	63.8
CR 699	Clinical audit: Report writing and submission	1	1	60	48	80	190	19.0

### 2.2.3.1.2 MSc Haematology and Blood Transfusion Degree Programme

This is a four semester (two years) post-MMed degree programme whose aim is to train specialists in clinical haematology, laboratory haematology and transfusion medicine. The candidate will be able to provide clinical service, train and conduct research in the field of haematology and blood transfusion.

#### 2.2.3.1.2.1 MSc Haematology and Blood Transfusion Degree Programme courses

Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1 : Credits 90.0</b>								
HE 605	Introduction to Haematology and Blood Transfusion	10	10	10	13	70	123	12.3
HB 606	Introduction to Haematology and Blood Transfusion	13	129	52	64	387	645	64.5
HB 610		3	3	6	20	100	132	13.2
<b>SEMESTER 2: Credits 90.0</b>								
HB 607	Blood Banking and Transfusion Medicine	15	154	61	77	461	768	76.8
HB 610	Clinical audit - Proposal writing	3	3	6	20	100	132	13.2
<b>SEMESTER 3 : Credits 90.0</b>								
HB 608	Bleeding and Thrombotic Disorders	15	154	61	77	461	768	76.8
HB 610	Clinical audit: Data management and analysis	3	3	6	20	100	132	13.2

Code	Course name	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 4: Credits 90.0</b>								
HB 609	Haematological Malignancies And Advanced Haematology And Blood Transfusion	15	154	61	77	461	768	76.8
HB 610	Clinical audit: Report writing and submission	3	3	6	20	100	132	13.2

### 2.2.3.1.3 MSc Medical Gastroenterology and Hepatology Degree Programme

This is a four semester (two years) post MMed degree which is intended to produce specialists in gastroenterology and Hepatology who will be able to provide clinical services to patients with GIT and hepatic disorders and train others in this field.

#### 2.2.3.1.3.1 MSc Medical Gastroenterology and Hepatology Degree Programme courses

Code	Course name	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 82.8</b>								
GE 600	Basic sciences and management of GI and Liver diseases	20	200	75	129	264	688	68.8
GE 699	Clinical Audit: Proposal write up	1	1	80	38	20	140	14.0
<b>SEMESTER 2: Credits 82.8</b>								
GE 601	Infections, emergencies and Critical care	20	220	49	87	242	618	61.8
GE 699	Module 2 – Clinical Audit: Data Collection	1	9	120	50	30	210	21.0
<b>SEMESTER 3: Credits 82.8</b>								
GE 602	Disorders of the GIT, liver, and pancreas	20	120	134	100	314	688	68.8
GE 699	Module 3 - Clinical Audit: Data management and Analysis	1	1	20	38	80	140	14.0

<b>SEMESTER 4: Credits 82.8</b>								
GE 603	Nutritional, tumours and manifestations of non GIT disorders	20	100	134	100	284	638	63.8
GE 699	Module 4 – Clinical Audit: Write up and Submission	1	1	60	48	80	190	19.0

#### **2.2.3.1.4 MSc Nephrology Degree Programme**

This is a four semester (two years) post MMed degree which is intended to produce specialists in nephrology who will be able to provide clinical services to patients with renal diseases, train others and conduct operational research in this field.

##### **2.2.3.1.4.1 MSc Nephrology Degree Programme courses**

<b>Code</b>	<b>Course name</b>	<b>Lecture (Hrs)</b>	<b>Tutorial/ Seminar (Hrs)</b>	<b>Assignment (Hrs)</b>	<b>Independent Study (Hrs)</b>	<b>Practical (Hrs)</b>	<b>Total (Hrs)</b>	<b>Credits</b>
<b>SEMESTER 1: Credits 82.8</b>								
NP 600	Applied basic sciences in nephrology, renal evaluation, glomerular and Hypertensive Renal Diseases	20.0	200.0	75.0	129.0	264.0	688	68.8
NP 699	Clinical audit - Proposal writing	1.0	1.0	80.0	38.0	20.0	140	14.0
<b>SEMESTER 2: Credits 82.8</b>								
NP 601	Congenital and Inherited Renal Diseases, Chronic Tubular and Interstitial Renal Diseases and Renal Tumors	20.0	220.0	49.0	87.0	242.0	618	61.8
NP 699	Clinical audit: Data collection	1.0	9.0	120.0	50.0	30.0	210	21.0
<b>SEMESTER 3: Credits 82.8</b>								

NP 602	Kidneys in Systemic Diseases, Disorders of Mineral Metabolism, Renal Stone diseases and Water, Electrolytes and Acid-Base Disorders	20.0	220.0	49.0	87.0	242.0	688	68.8
NP 699	Clinical audit: Data management and analysis	1.0	9.0	120.0	50.0	30.0	140	14.0
<b>SEMESTER 4: Credits 82.8</b>								
NP 603	Acute Renal Failure, Chronic Renal Failure, Dialysis, Renal Transplantation and Kidney Diseases in Pregnancy	20.0	100.0	134.0	100.0	284.0	638	63.8
NP 699	Clinical audit: Report writing and submission	1.0	1.0	60.0	48.0	80.0	190	19.0

### 2.2.3.1.5 MSc Neurology Degree Programme

This is a four semester (two years) post MMed degree which is intended to produce specialists in neurology who will be able to provide clinical services to patients with neurological diseases, train others and conduct research in this field.

#### 2.2.3.1.5.1 MSc Neurology Degree Programme courses

Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 82.8</b>								
NE 600	Applied Basic Sciences in Neurology Manifestations of Neurological Diseases, Diagnostic Evaluation Of Patients With Neurological Conditions	20	200	75	129	264	688	68.8

NE 699	Clinical audit - Proposal writing	1.0	1.0	80	38	20	140	14.0
<b>SEMESTER 2: Credits 82.8</b>								
NE 601	Infections of the CNS, Cerebrovascular diseases, Metabolic disorders and CNS, Spinal Cord diseases	20	220	49	87	242	618	61.8
NE 699	Clinical audit: Data collection	1.0	9.0	120	50	30	210	21.0
<b>SEMESTER 3: Credits 82.8</b>								
NE 602	Memorizing dysfunction, Movement disorders, Deficiency states of the CNS, Dementias	20	120	134	100	314	688	68.8
NE 699	Clinical audit: Data management and analysis	1.0	1.0	20	38	80	140	14.0
<b>SEMESTER 4: Credits 82.8</b>								
NE 603	Episodic disorders, Brain tumours, Peripheral neuropathies and Muscle Diseases	20	100	134	100.8	284	638.8	63.8
NE 699	Clinical audit: Report writing and submission	1.0	1.0	60	48	80	190	19.0

#### 2.2.3.1.6 MSc Neurosurgery degree Programme

This is a three-year, six semester specialist degree programme which trains highly skilled professionals able to perform neurosurgical procedures to patients with neurosurgical conditions. The specialists teach their juniors and carry out operational research in neurosurgery.

### 2.2.3.1.6.1 MSc Neurosurgery degree Programme courses

Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 60.0</b>								
NS 600	Neuroanatomy	6	24	6	30	54	120	12
NS 600	Neurophysiology	6	24	6	30	54	120	12
NS 600	Neuropathology	6	24	6	30	54	120	12
NS 600	Neuroradiology	6	24	6	30	54	120	12
NS 600	Neurology	6	24	6	30	54	120	12
<b>SEMESTER 2: Credits 60.0</b>								
NS 601	Principles of Operative Neurosurgery	30	120	30	150	270	600	60

Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 3: Credits 60</b>								
NS 602	Neurotrauma. Infections. Critical care	25	100	25	125	225	500	50
NS 688	Clinical Audit	1	3	1	50	45	100	10
<b>SEMESTER 4: Credits 60</b>								
NS 603	Neuro-oncology	25	100	25	125	225	500	50
NS 688	Clinical Audit	1	3	1	50	45	100	10
<b>SEMESTER 5: Credits 60</b>								
NS 604	Pediatric and Functional Neurosurgery	25	100	25	125	225	500	50
NS 688	Clinical Audit	1	1	1	7	90	100	10
<b>SEMESTER 6: Credits 60</b>								
NS 605	Vascular Neurosurgery	25	100	25	125	225	500	50
NS 688	Clinical Audit	1	1	1	7	90	100	10

### 2.2.3.1.7 MSc Paediatric Haematology and Oncology

Enables a paediatric specialist to acquire skills and knowledge in clinical and laboratory paediatric haematology/oncology and who will be able to provide clinical services, train and conduct research in the field of paediatric haematology/oncology.

#### 2.2.3.1.7.1 MSc Paediatric Haematology and Oncology Programme Courses

Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 86.8</b>								
HH 600	Basic Principles of Paediatric Haematology, common conditions and the initial management	23	92	39	230	384	768	76.8
HH 688	Clinical Audit: Proposal Writing	5	5	10	80	10	100	10.0
<b>SEMESTER 2: Credits 86.8</b>								
HE 600	Educational Principles and Practices for Health Sciences Professionals	3	12	5	30	50	100	10
HH 601	Principles of Paediatric Oncology, Common Conditions and the initial Management	18	72	30	180	300	600	60
HH 688	Clinical Audit: Data Collection	7	13	13	101	44	160	16.8
<b>SEMESTER 3: Credits 83.6</b>								
HH 602	Clinical Paediatric Haematology, Immunology and Infections	21	84	35	210	350	700	70
HH 688	Clinical Audit: Data Analysis	2	8	3	21	34	136	13.6
<b>SEMESTER 4: Credits 83.6</b>								
HH 603	Clinical Paediatric Oncology and Tumours	21	84	35	210	350	700	70
HH 688	Clinical Audit Report Writing and Submission	2	8	3	21	34	136	13.6

### 2.2.3.1.8 MSc Respiratory Medicine Degree Programme

This is a four semester (two years) post MMed degree which is intended to produce specialists in respiratory medicine who will be able to provide clinical services to patients with respiratory diseases, train others and conduct research in this field.

### 2.2.3.1.8.1 MSc Respiratory Medicine Degree courses

Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 82.8</b>								
RM 600	Applied basic sciences and diagnostic evaluation in respiratory diseases	20.0	200.0	75.0	129.0	264.0	688	68.8
RM 699	Clinic audit – Proposal writing	1.0	1.0	80.0	38.0	20.0	140	14.0
<b>SEMESTER 2: Credits 82.8</b>								
RM 601	Clinical audit – Proposal writing	20.0	220.0	49.0	87.0	242.0	618	61.8
RM 699	Clinical audit: Data collection	1.0	9.0	120.0	50.0	30.0	210	21.0
<b>SEMESTER 3: Credits 82.8</b>								
RM 602	Infiltrative and interstitial lung diseases, environmental and occupational disorders of pleura and mediastinum	20.0	220.0	49.0	87.0	242.0	688	68.8
RM 699	Clinical audit: Data management and analysis	1.0	9.0	120.0	50.0	30.0	140	14.0
<b>SEMESTER 4: Credits 82.8</b>								
RM 603	Respiratory manifestations of non-respiratory disorders, Respiratory failure, Prevention and control of lung diseases	20.0	100.0	134.0	100.0	319	638	63.8
RM 699	Clinical audit: Report writing and submission	1.0	1.0	60.0	48.0	59	190	19.0



### 2.2.3.1.9 MSc Surgical Gastroenterology and Hepatology Degree Programme

This is a four semester (two years) post MMed degree which produces specialists in surgical gastroenterology and hepatology to provide clinical services to patients with surgical GIT and hepatic disorders, train others and conduct operational research in this field.

#### 2.2.3.1.9.1 MSc Surgical Gastroenterology and Hepatology Degree Programme courses

Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 90.0</b>								
GT 600	Applied basic sciences and Introduction to endoscopy	77.0	77.0	115.5	192.5	308	770	77
GT 688	Clinical audit writing proposal	6.5	6.5	26	32.5	58.5	130	13
<b>SEMESTER 2: Credits 90.0</b>								
GT 601	Upper and lower gastrointestinal diseases	77	77	115.5	192.5	308	770	77.0
GT 688	Clinical audit data collection	6.5	6.5	26	32.5	58.5	130	13.0
<b>SEMESTER 3: Credits 90.0</b>								
GT 602	Hepatobiliopancreatic surgery	77	77	115.5	192.5	308	770	77.0
GT 688	Clinical audit data analysis	6.5	6.5	26	32.5	58.5	130	13.0
<b>SEMESTER 4: Credits 90.0</b>								
GT 603	Advances in Surgical gastroenterology and hepatobiliopancreatic surgery	77	77	115.5	192.5	308	770	77.0
GT 688	Clinical audit- report writing and submission	6.5	6.5	26	32.5	58.5	130	13.0

### 2.2.3.1.10 MSc Urology Degree Programme

This is a four semester (two years) post MMed degree which produces specialists in Urology to provide clinical services to patients with urological disorder, train others and conduct operational research in this field.

### 2.2.3.1.10.1 MSc Urology Degree Programme courses

Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: Credits 88.3</b>								
UR 602	Basic Concepts and clinical assessment in Urologic Surgery	66	66	97	163	261	653	65.3
UR 688	Clinical audit –writing proposal	11	11	46	58	104	230	23.0
<b>SEMESTER 2: Credits 88.3</b>								
UR 603	Operative Urology, G-U Trauma, Urine Diversion, Urine incontinence, Scrotal Pathologies, Priapism	66	66	97	163	261	653	65.3
UR 688	Clinical audit – data collection	11	11	46	58	104	230	230
<b>SEMESTER 3: Credits 88.3</b>								
UR 604	Urology Specialties (Paediatric urology, Uro-oncology, Andrology&Uro-gynaecology, calculus disease, Endo-urology)	61	61	92	153	244	611	61.1
UR 688	Clinical audit – Data analysis	14	14	54	68	122	272	27.2
<b>SEMESTER 4: Credits 88.3</b>								
UR 605	Current urologic practice and state of the art techniques	77	77	116	193	308	771	77.1
UR 688	Clinical audit-report writing and submission	6	6	22	28	50	112	11.2

### 2.2.3.1.11 MSc Plastic and Reconstructive Surgery Degree Programme

This is a four semester (two years) post-MMed degree which produces specialists in Plastic and Reconstructive Surgery to provide clinical services to patients with surgical reconstruction needs, train others and conduct operational research in this field.

### 2.2.3.1.11.1 MSc Plastic and Reconstructive Surgery Programme courses

#### Semester 1 year 1

Name of the Programme	Course Name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PRS 600	General Principles of plastic surgery	Core	77	77	115.5	192.5	308	770	77.0
PRS 688	Clinical audit	Core	6.5	6.5	26	32.5	58.5	130	13.0
<b>Total</b>			83.5	83.5	141.5	225.0	366.5	900	90.0

#### Semester 2 year 1

Name of the Programme	Course Name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PRS 601	Plastic surgery of head, neck and integument	Core	77	77	115.5	192.5	308	770	77.0
PRS 688	Clinical audit	Core	6.5	6.5	26	32.5	58.5	130	13.0
<b>Total</b>			83.5	83.5	141.5	225.0	366.5	900	90.0

#### Semester 1 year 2

Course code	Course Name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PRS 602	Plastic surgery of upper and lower extremity, trunk and breast.	Core	77	77	115.5	192.5	308	770	77.0
PRS 688	Clinical audit	Core	6.5	6.5	26	32.5	58.5	130	13.0
<b>Total</b>			83.5	83.5	141.5	225.0	366.5	900	90.0

## Semester 2 year 2

Name of the Programme	Course Name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PRS 603	Genitourinary reconstruction and the practice of plastic surgery	Core	77	77	115.5	192.5	308	770	77.0
PRS 688	Clinical audit	Core	6.5	6.5	26	32.5	58.5	130	13.0
Total			83.5	83.5	141.5	225.0	366.5	900	90.0

### 2.2.3.1.12 MSc Interventional Radiology Degree Programme

This is a four semester (two years) post-MMed degree which produces specialists in Interventional Radiology to provide clinical services to patients, train others and conduct operational research in this field.

#### 2.2.3.1.12.1 MSc Interventional Radiology Programme courses

Code	Course Name	Lectures (Hrs)	Seminar/Tutorials (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practicals (Hrs)	Total Hours	Credits
SEMESTER 1: 90.0 CREDITS								
IR 601.01	Basics of Intervention radiology	16	47	16	94	142	315	31.5
IR 601.02	Pharmacology and patient monitoring	16	47	16	94	142	315	31.5
IR 699.01	Clinical Audit proposal	13	41	13	82	121	270	27
SEMESTER 2: 90.0 CREDITS								
IR 602.01	Basic Non vascular percutaneous procedure	16	47	16	94	142	315	31.5
IR 602.02	Advanced Non vascular percutaneous procedure	16	47	16	94	142	315	31.5
IR 699.02	Clinical Audit Data collection	13	41	13	82	121	270	27.0
SEMESTER 3: 90.0 CREDITS								
IR 603.01	Basic Venous endovascular procedure	16	47	16	94	142	315	31.5
IR 603.02	Basic Arterial endovascular procedure	16	47	16	94	142	315	31.5

IR 699.03	Clinical Audit Data analysis	13	41	13	82	121	270	27.0
<b>SEMESTER 4: 90.0</b>								
IR 604.01	Advanced Venous endovascular procedure	16	47	16	94	142	315	31.5
IR 604.02	Advanced Arterial endovascular procedure	16	47	16	94	142	315	31.5
IR 699.04	Clinical Audit Write up and Submission	13	41	13	82	121	270	27.0

### 2.2.3.1.13 MSc Neuroradiology Degree Programme

This is a four semester (two years) post-MMed degree which produces specialists in Neuroradiology to provide diagnostic and clinical services to patients, train others and conduct operational research in this field.

#### 2.2.3.1.13.1 MSc Neuroradiology Degree Programme courses

Code	Course Name	Lectures (Hrs)	Seminar/ Tutorials (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practicals (Hrs)	Total Hours	Credits
<b>SEMESTER 1:90.0 CREDITS</b>								
NR 601.01	Neuro Anatomy	16	47	16	94	142	315	31.5
NR 601.02	Neuro Technique and Physics	16	47	16	94	142	315	31.5
NR 699.01	Clinical Audit proposal	13	41	13	82	121	270	27
<b>SEMESTER 2: 90.0 CREDITS</b>								
NR 602.01	Brain Cerebral vascular disease	16	47	16	94	142	315	31.5
NR 602.02	Brain infection	16	47	16	94	142	315	31.5
NR 699.02	Clinical Audit Data collection	13	41	13	82	121	270	27.0
<b>SEMESTER 3: 90.0 CREDITS</b>								
NR 603.01	Brain Neoplasia	16	47	16	94	142	315	31.5
NR 603.02	Spine disorders and diseases	16	47	16	94	142	315	31.5
NR 699.03	Clinical Audit Data analysis	13	41	13	82	121	270	27.0
<b>SEMESTER 4: 90.0</b>								
NR 604.01	Brain White Matter metabolic disease	16	47	16	94	142	315	31.5

NR 604.02	Head and Neck disorders and disease	16	47	16	94	142	315	31.5
NR 699.04	Clinical Audit Write up and Submission	13	41	13	82	121	270	27.0

#### **2.2.3.1.14 Examination Regulations for MSc Super-Specialization Programmes**

- (i) General University Examination regulations on registration, registration for examination, eligibility for examination, absence from examination, Board of Examiners, conduct of examinations, Examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in Chapter one.
- (ii) The Master of Science Super specialities are 4 to 6-semester degree programmes and the maximum tenure for the registration shall be six (6) or 8 semesters.
- (iii) The maximum freezing period shall be two (2) semesters.
- (iv) Registration of full-time students shall be once at the beginning of each semester.
- (v) There shall be at least two continuous assessment tests (CAT) and regular assessment of competencies for each module or modular course taught during each semester. The CAT and the regular assessment of competencies shall constitute the Formative Assessment (FA) and the final end of module/modular course or rotation examination the Summative Assessment (SA).
- (vi) FA shall contribute 50 % of the final grade in the end of module/modular course/rotation examinations.
- (vii) The SA shall consist of written examinations (MCQ's, essays, and others), clinical components (Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examinations (OSPE), Global (multisource) observation and rating of live or recorded performances, observation of procedures and rating by faculty, logbooks, portfolio, and others) and the oral examination. The proportional contribution for written, practical/competencies and oral assessments will be 30, 60 and 10% respectively.
- (viii) A candidate will be considered to have passed a course after passing all modules and rotations of the respective course.
- (ix) Decision-making of the failing students shall be determined at the end of the audit year, when External Examiners will be invited.
- (x) A candidate who fails in one or more courses, but whose GPA is 2.4 or higher shall be allowed to do first supplementary examination(s) in the failed courses/modular courses when next offered during the long vacation.
- (xi) No candidate shall be allowed to sit for supplementary in more than three failed courses at any given time irrespective of GPA and shall be discontinued from studies.
- (xii) A candidate who fails the first supplementary examination shall be allowed to sit for a second supplementary examination when next offered provided she/he has a GPA of 2.7 or more.

- (xiii) A candidate who fails the second supplementary examination in semesters 1 and 2 shall be discontinued from the studies except in special circumstances, if recommended by the School of Medicine Board and Senate Higher Degrees Committee and approved by University Senate.
- (xiv) A candidate who fails the second supplementary examination in semesters 3 and 4 shall be allowed to supplement the failed courses at the end of semester 4 provided the maximum tenure of six semesters is not exceeded.
- (xv) A candidate who fails in any number of the courses and has a GPA of less than 2.4 shall be discontinued from the programme.
- (xvi) A candidate who pass a supplementary examination at any level shall be awarded a “B” grade
- (xvii) No candidate will be allowed to repeat a semester except in very exceptional circumstances on the recommendation of the School Board and approved by the senate
- (xviii) A student shall be awarded the MSc Super-speciality degree after passing all courses in the programme.
- (xix) In addition to these regulations, General Regulations and Guidelines of Postgraduate Study Programmes shall be binding.
- (xx) Notwithstanding the above regulations, postgraduate students are bound by civil service regulations and shall have only one leave in a year during the long vacation.

#### **2.2.3.1.15 Grading System for MSc Super specialization**

The examination marks shall be graded as shown in the table below:

<b>Grade</b>	<b>A</b>	<b>B+</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>Percent</b>	100-70	69-60	59-50	49-40	39-0
<b>GP</b>	5.0-4.4	4.3-3.5	3.4-2.7	2.6-2.0	1.9-0

### **2.3 MASTER OF SCIENCE BY RESEARCH AND PHD PROGRAMMES**

The common regulations (as appears in the MUHAS General Regulations and Guidelines for Postgraduate study Programmes) for MSc by Research and Publications and Doctor of Philosophy degrees of the University in all Schools and Academic Institutes apply.

## **CHAPTER THREE: SCHOOL OF DENTISTRY**

### **3.1 INTRODUCTION**

The School of Dentistry is the only dental school in Tanzania. The vision of the School is to become a reputable world-class School of Dentistry that is responsive to national, regional and global development needs through engaging in dynamic knowledge creation and application in the field of dentistry. The mission of our school is to lead and facilitate our customers in attaining and maintaining quality of life through quality oral health education, research and public service. We offer postgraduate studies in the field of restorative dentistry, oral and maxillofacial surgery, oral pathology, preventive and community dentistry, orthodontics and pediatric dentistry. The training facilities include standard lecture rooms, simulation skills laboratory, state of the art dental chairs, and dental x-ray machines, instruments for different dental specialties and instruments' sterilization machines. After completion of six semester postgraduate programmes, graduates will have employment opportunities to manage oral health problems as well as taking part in research and training other professionals in the field of oral and health.

### **3.2 PROGRAMMES**

#### **3.2.1 MASTER OF DENTISTRY (MDENT) DEGREE PROGRAMMES**

These are competency-based six-semester (three year) programmes whose aim is to train competent and skilled human resource to improve and promote the delivery of specialist oral health services including research.

##### **3.2.2.1 Entry requirements**

- (i) A holder of a Doctor of degree Dental Surgery (DDS) of this University with a minimum cumulative GPA of 2.7 at undergraduate level and who complies with the regulations set out hereunder.
- (ii) A dental graduate from any recognized University who has been admitted to a status equivalent to Doctor of Dental Surgery (DDS), with a minimum cumulative GPA of 2.7 at undergraduate level. DDS equivalent degrees include BDS but NOT MD.

##### **3.2.2 MDent Community Dentistry Degree**

This is a six-semester programme intended to provide a deeper knowledge, skills and attitudes of Community Dentistry, better understanding of the relationship between the individual, the community life style and environmental factors to both general and oral health, and to develop research competencies for general and oral public health to the trainee.

##### **3.2.3.1 MDent Community Dentistry Degree Programme courses**

###### **Semester 1 Year 1**

<b>Course code</b>	<b>Course name</b>	<b>Core or elective</b>	<b>Lecture (Hrs)</b>	<b>Tutorial/ Seminar (Hrs)</b>	<b>Assignment (Hrs)</b>	<b>Independent Study (Hrs)</b>	<b>Practical (Hrs)</b>	<b>Total (Hrs)</b>	<b>Credits</b>
EE 600	Bioethics	Core	6	18	6	18	12	60	6.0



ER 600	Epidemiology, Biostatistics and Research methodology	Core	6	30	10	22	18	86	8.6
CD 602	Theories and Models of Health Behaviour	Core	8	42	26	64	76	216	21.6
CD 601	Preventive dentistry	Core	8	44	30	57	86	225	22.5
CD 610	Global health	Core	8	42	46	84	99	279	27.9
<b>Total</b>			<b>36</b>	<b>176</b>	<b>118</b>	<b>245</b>	<b>291</b>	<b>866</b>	<b>86.6</b>

### Semester 2 Year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
HE 600	Educational principle and Practice for Health sciences professionals	Core	68	5	10	15	2	100	10.0
CD 603	Health economics and entrepreneurship	Core	0	23	6	35	52	116	11.6
CD 604	Oral health systems	Core	0	41	10	57	80	188	18.8
CD 605	Leadership, management and strategic planning	Core	0	39	10	52	84	185	18.5
CD 606	Basic package of oral care	Core	0	60	15	70	132	277	27.7
<b>Total</b>			<b>68</b>	<b>168</b>	<b>51</b>	<b>229</b>	<b>350</b>	<b>866</b>	<b>86.6</b>

### Semester 3 Year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
CD 607	Research methods in community dentistry	Core	6	48	20	90	164	328	32.8

CD 608	Epidemiology and public aspects of oral diseases and conditions	Core	6	47	22	88	150	313	31.3
CD 699.1	Dissertation module 1: Proposal writing	Core	2	45	8	150	20	225	22.5
<b>Total</b>			<b>14</b>	<b>140</b>	<b>50</b>	<b>328</b>	<b>334</b>	<b>866</b>	<b>86.6</b>

### Semester 4 Year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
CD 609	Special public oral health issues	Core	6	48	20	84	123	281	28.1
CD 611	Oral health promotion	Core	6	32	16	72	134	260	26
CD 699.2	Dissertation module 2: Data collection	Core	2	2	2	10	309	325	32.5
<b>Total</b>			<b>14</b>	<b>82</b>	<b>38</b>	<b>166</b>	<b>566</b>	<b>866</b>	<b>86.6</b>

### Semester 5 Year 3

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
CD 611	Oral health promotion field work	Core	0	92	66	180	278	616	61.6
CD 699.3	Dissertation module 3: Data analysis and report writing	Core	2	19	4	150	75	250	25
<b>Total</b>			<b>2</b>	<b>111</b>	<b>70</b>	<b>330</b>	<b>353</b>	<b>866</b>	<b>86.6</b>

### Semester 6 Year 3

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
CD 612	Oral health services: Field attachment	Core	0	96	76	160	389	721	72.1

CD 699	Dissertation module 4: Submission and examination	Core	0	4	6	120	15	145	14.5
<b>Total</b>			<b>0</b>	<b>100</b>	<b>82</b>	<b>280</b>	<b>404</b>	<b>866</b>	<b>86.6</b>

### 3.2.3 MDent Oral and Maxillofacial Surgery Degree Programme

This programme provides deeper knowledge of oral and maxillofacial surgery, a better understanding of the concepts underlying oral and maxillofacial surgical procedures within the background of good knowledge of basic sciences. In addition this course ensures that the graduates acquire a firm scientific basis for the diagnosis and treatment of oral maxillofacial disease and be able to work independently.

#### 3.2.3.1 MDent Oral and Maxillofacial Surgery Degree Programme courses

##### Semester 1 Year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
AN 603	Applied Head and neck anatomy	Core	20	70	20	20	50	180	18
PH 600	Clinical physiology	Core	4	67	10	20	4	105	10.5
PA 600	Principles of pathology and haematology	Core	16	64	16	80	145	321	32.1
MI 609	Microbiology and immunology	Core	5	72	10	20	5	112	11.2
ER 600	Epidemiology, biostatistics and research methodology	Core	6	30	10	22	18	86	8.6
EE 600	Bioethics	Core	6	18	6	18	12	60	6
<b>Total</b>			<b>57</b>	<b>321</b>	<b>72</b>	<b>180</b>	<b>234</b>	<b>864</b>	<b>86.4</b>

##### Semester 2 Year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
OS 600	Principles of oral and mxiljofacial surgery	Core	12	154	38.5	191.5	372	768	76.8

HE 600	Educational principles and practices for health sciences professionals	Core	68	5	10	15	2	100	10
<b>Total</b>			<b>80</b>	<b>159</b>	<b>48.5</b>	<b>206.5</b>	<b>374</b>	<b>868</b>	<b>86.8</b>

### Semester 3 Year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
OS 601	Surgical specialties related to oral and maxillofacial surgery	Core	41.3	127.8	33.3	66.5	369.7	641	64.1
OS 699.1	Dissertation – proposal writing	Core	2	45	10	150	20	225	22.5
<b>Total</b>			<b>43.3</b>	<b>173.2</b>	<b>43.3</b>	<b>216.5</b>	<b>389.7</b>	<b>866</b>	<b>86.6</b>

### Semester 4 Year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
OS 602	Fundamental oral surgery and oral medicine	Core	18	194	20	78	231	541	54.1
OS 699.2	Dissertation – oral medicine	Core	2	2	2	10	309	325	32.5
<b>Total</b>			<b>20</b>	<b>196</b>	<b>22</b>	<b>88</b>	<b>540</b>	<b>866</b>	<b>86.6</b>

### Semester 5 Year 3

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
OS 603	Operative oral and maxillofacial surgery	Core	10	49	17	66	474	616	61.6
OS 699.3	Dissertation 3 – data analysis and report writing	Core	2	19	4	150	75	250	25
<b>Total</b>			<b>12</b>	<b>68</b>	<b>21</b>	<b>216</b>	<b>549</b>	<b>866</b>	<b>86.6</b>

### Semester 6 Year 3

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
OS 604	Advanced operative oral and maxillofacial surgery	Core	10	100	40	86	485	721	72.1
OS 699.4	Dissertation 4 – submission and examination	Core	0	4	6	120	15	145	14.5
<b>Total</b>			<b>10</b>	<b>104</b>	<b>46</b>	<b>206</b>	<b>500</b>	<b>866</b>	<b>86.6</b>

### 3.2.5 MDent Pediatric Dentistry Degree Programme

This is a six semester competency-based degree programme intended to provide a post graduate student with specialized professional knowledge and clinical skills in managing oral and maxillofacial diseases and conditions in normal and disadvantaged children as well as oral health research competence.

#### 3.2.5.1 MDent Pediatric Dentistry Degree Programme courses

##### Semester 1 Year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
AN 603	Applied head and neck anatomy	Core	20	70	20	20	50	180	18
PH 600	Clinical physiology	Core	4	67	10	20	4	105	10.5
BC 600	Biochemistry	Core	20	80	20	20	15	155	15.5
CL 600	Clinical pharmacology and therapeutics	Core:	3	14	3	16	29	65	6.5
EE 600	Bioethics	Core	6	18	6	18	12	60	6
ER 600	Epidemiolog, biostatistics and research methodology	Core	6	30	10	22	18	86	8.6
<b>Total</b>			<b>59</b>	<b>279</b>	<b>69</b>	<b>116</b>	<b>128</b>	<b>651</b>	<b>65.1</b>

### Semester 2 Year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
HE 600	Educational principles and practices for health professionals	Core:	5	20	5	25	45	100	10
DC 600	Child dental development and behavioural management	Core:	20	80	20	100	205	425	42.5
DC 601	Malocclusions and orthodontic examination	Core	20	76	36	92	220	444	44.4
<b>Total</b>			<b>45</b>	<b>176</b>	<b>61</b>	<b>217</b>	<b>470</b>	<b>969</b>	<b>96.9</b>

### Semester 3 Year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
DC 602	Paediatric preventive dentistry	Core	12	32	10	96	174	324	32.4
DC 603	Paediatric restorative dentistry	Core	14	56	14	96	168	348	34.8
DC 699.1	Dissertation – proposal writing	Core	2	45	10	150	20	227	22.7
<b>Total</b>			<b>28</b>	<b>133</b>	<b>34</b>	<b>342</b>	<b>362</b>	<b>899</b>	<b>89.9</b>

### Semester 4 Year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
DC 604	Dental traumatology	Core	14	56	14	66	120	270	27
DC 605	Dentistry for children with special needs	Core	16	60	18	70	128	292	29.2
DC 699.2	Dissertation 2 – data collection	Core	2	2	2	10	309	325	32.5
<b>Total</b>			<b>32</b>	<b>118</b>	<b>34</b>	<b>146</b>	<b>557</b>	<b>887</b>	<b>88.7</b>

### Semester 5 Year 3

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
DC 606	Paediatric surgery	Core	10	60	18	82	172	342	34.2
DC 607	Orthodontics, biomechanics and techniques	Core	6	56	16	72	164	314	31.4
DC 699.3	Dissertation 3 – data analysis and report writing	Core	2	19	4	150	75	250	25
<b>Total</b>			<b>18</b>	<b>135</b>	<b>38</b>	<b>304</b>	<b>411</b>	<b>906</b>	<b>90.6</b>

### Semester 6 Year 3

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
DC 608	Multidisciplinary treatment	Core	12	74	24	85	170	365	36.5
DC 609	General paediatrics	Core	14	76	35	86	166	377	37.7
DC 699.4	Dissertation 4 – submission and examination	Core	0	4	6	120	15	145	14.5
<b>Total</b>			<b>26</b>	<b>154</b>	<b>65</b>	<b>291</b>	<b>351</b>	<b>887</b>	<b>88.7</b>

### 3.2.6 MDent Restorative Dentistry Degree Programme

This is a six semester programme which provides deeper knowledge of operative dentistry, a better understanding of the concepts underlying operative dentistry procedures with high standards of knowledge of basic sciences. In addition this course ensures that the graduates acquire a firm scientific basis for diagnosis and operative treatment of disorders and diseases of dentition and associated structures to the level expected of the specialist.

#### 3.2.6.1 MDent Restorative Degree Programme courses

##### Semester 1 Year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
AN 603	Applied head and neck anatomy	Core	20	70	20	20	50	180	18.0
PH 600	Clinical physiology	Core	4	67	10	20	4	105	10.5
MI609	Microbiology and immunology	Core	5	72	10	20	5	112	11.2
ER 600	Epidemiology, biostatistics and research methodology	Core	6	30	10	22	18	86	8.6
EE 600	Bioethics	Core	6	18	6	18	12	60	6
OD 600	Biomaterials in restorative dentistry	Core	17	90	36	110	90	343	34.3
<b>Total</b>			<b>58</b>	<b>347</b>	<b>92</b>	<b>210</b>	<b>179</b>	<b>886</b>	<b>88.6</b>

### Semester 2 Year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
OD 601	Conservative dentistry	Core	12	154	38.5	191.5	370	766	76.6
HE 600	Educational principles and practices for health sciences professionals	Core	68	5	10	15	2	100	10
<b>Total</b>			<b>80</b>	<b>159</b>	<b>48.5</b>	<b>206.5</b>	<b>372</b>	<b>866</b>	<b>86.6</b>

### Semester 3 Year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
OD 602	Endodontics therapies	Core	41.3	127.8	33.3	66.5	369.7	641	64.1
OD 699.1	Dissertation – report writing	Core	2	45	10	150	20	225	22.5
<b>Total</b>			<b>43.3</b>	<b>173.2</b>	<b>43.3</b>	<b>216.5</b>	<b>389.7</b>	<b>866</b>	<b>86.6</b>



### Semester 4 Year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
OD 603	Periodontal and prosthodontic therapies	Core	18	194	20	78	231	541	18
OD 699.2	Dissertation – data collection	Core	2	2	2	10	309	325	32.5
<b>Total</b>			<b>20</b>	<b>196</b>	<b>22</b>	<b>88</b>	<b>540</b>	<b>866</b>	<b>86.6</b>

### Semester 5 Year 3

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
OD 604	Advanced restorative dentistry	Core	10	49	17	66	474	616	61.6
OD 699.3	Dissertation 3 – data analysis and report writing	Core	2	19	4	150	75	250	25
<b>Total</b>			<b>12</b>	<b>68</b>	<b>21</b>	<b>216</b>	<b>549</b>	<b>866</b>	<b>86.6</b>

### Semester 6 Year 3

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
OD 605	Cosmetic restorative dentistry	Core	17	100	22	36	330	505	50.5
OD 606	Restorative dentistry for special groups	Core	7	50	11	36	114	218	21.8
OD 699.4	Dissertation 4 – submission and examination	Core	1	3.6	5.4	120	15	145	14.5
<b>Total</b>			<b>25</b>	<b>153.6</b>	<b>38.4</b>	<b>192</b>	<b>459</b>	<b>868</b>	<b>86.8</b>

### 3.2.7 Examination regulations for the MDent Programmes

- (i) The general University Examination regulations on registration, registration for examinations, professional conduct, eligibility for examination, absence from examination, Board of Examiners, conduct of examinations, Examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in Chapter one.
- (ii) The MDentare 6-semester programmes and the maximum tenure for the MDent degree shall be 8 semesters.
- (iii) Registration for full time students shall be once at the beginning of each semester.
- (iv) All modules or modular courses offered during a semester shall be examined at the end of the module or modular course or rotation. External examiners or moderators shall be invited at the end of the semester or audit year.
- (v) There shall be at least two Continuous Assessment Tests (CAT) for each module/modular course or rotation taught during semester one and at least one CAT in each of semesters 2-6 and regular assessment of competencies. CAT and assessment of competencies shall form the Formative Assessment (FA).
- (vi) The FA in semesters 2-6 shall consist of evaluation of clinical and other competency domains using appropriate tools in addition to written examination.
- (vii) The FA shall contribute 50% of the final grade in the end of module/modular course or rotation Summative Assessment (SA). The (SA) shall include assessment of all competency domains using appropriate tools.
- (viii) The SA for semesters 2-6 shall consist of written, clinical/practical and oral components whose proportional contribution will be 40%, 50% and 10%, respectively but assessment shall be conducted as in (vi) above.
- (ix) To pass a module/course or rotation a candidate has to attain a B grade or higher.
- (x) Decision-making on failing students in basic science modules/courses shall be determined at the end of the audit year.
- (xi) No candidate shall be allowed to sit for supplementary in more than three failed courses at any given time irrespective of GPA and shall be discontinued from the programme.
- (xii) A candidate who fails any number of modules, modular courses or rotations and has a GPA of less than 2.4 shall be discontinued from studies.
- (xiii) A candidate who fails in three or less courses shall be allowed to sit for a first supplementary examination provided he/she has a GPA of 2.4 or higher.
- (xiv) Supplementary examination for a failed modules or rotation shall be offered during the subsequent semester.
- (xv) A candidate who fails the first supplementary examination shall be allowed to sit for a second supplementary examination when next offered provided he/she has an average GPA of 2.7 or above.
- (xvi) A candidate who fails the second supplementary examination in semesters 1 to 2 shall be discontinued from studies, except in special circumstances, if recommended by the School Board and Senate Higher Degrees Committee and approved by the University Senate. A candidate who fails the second supplementary examination in semesters 3 to 6 shall be allowed to supplement the failed courses at the end of Semester 6 provided the maximum tenure of eight semesters is not exceeded.

- (xvii) To pass the end of modules/modular course or rotation examinations in semesters 2-6 the written and clinical/practical parts have to be PASSED SEPARATELY.
- (xviii) A candidate who passes a supplementary examination at any level shall be awarded a “B” grade.
- (xix) No candidate will be allowed to repeat a semester except in very exceptional circumstances, on the recommendation of the School Board and approved by the Senate.
- (xx) A student shall be awarded the MDent degree after passing all examinations in the prescribed courses in the programme and submitting an error free dissertation.
- (xxi) In addition to these regulations, the General Regulations and Guidelines of Postgraduate Study Programmes shall be binding.
- (xxii) Notwithstanding the regulations above, postgraduate students are bound by civil service regulations and therefore shall have only one leave in a year during the long vacation.

### 3.2.8 Regulations on MDent dissertations

- (i) The dissertation shall consist of one research topic. This shall be determined by the candidate and approved by the department.
- (ii) Four loosely bound copies of the dissertation shall be submitted to the Dean of the School of Dentistry at least THREE MONTHS before the beginning of semester 6 University examinations. A candidate who does not submit a dissertation at this period shall be barred from sitting for final examinations. The candidate shall be required to submit loosely bound copies of the dissertation not less than three months prior to the examination when next offered provided that regulation on maximum tenure for MDent degrees allows.
- (iii) Oral defense of the dissertation shall be done during the end of semester 6 University examinations.
- (iv) A candidate, having passed all semester examinations, shall be required to re-submit error-free dissertation within 3 months in the case of minor corrections and within 6 months if there are major corrections.
- (v) A dissertation re-submitted after major corrections shall be re-examined by both internal and external examiners.
- (vi) In case of outright rejection of a dissertation a candidate may submit another dissertation for examination after 9 months provided the maximum tenure allows.
- (vii) A dissertation rejected by examiners after re-submission shall not be accepted for re-examination at this University.

### 3.2.9 Grading System for MDent programmes

- (i) Computation of the GPA for the MDent programmes shall be based on the number of credits approved for each course and shall be equated to the letter grade as shown below. However, the MDent degree shall not be classified: -

Grade	A	B+	B	C	D
Percent	100-70	69-60	59-50	49-40	39-0
GP	5.0-4.4	4.3-3.5	3.4-2.7	2.6-2.0	1.9-0

### **3.3 MASTER OF SCIENCE BY RESEARCH AND PHD PROGRAMMES**

The common regulations (as appears in the MUHAS General Regulations and Guidelines for Postgraduate study Programmes) for MSc by Research and Publications and Doctor of Philosophy degrees of the University in all Schools and Academic Institutes apply.

## CHAPTER FOUR: SCHOOL OF PHARMACY

### 4.1 INTRODUCTION

The School of Pharmacy has about 40 years of experience of training pharmaceutical personnel. Pharmacy education embraces the search, development, formulation, analysis, storage and distribution of products for maintenance and restoration of good health as well as provision of information and guidance on proper use of medicines. The School has the vision of becoming center of excellence in providing high quality and relevant pharmacy education, research and consultancy services in pharmacy and related fields.

The School offers postgraduate degree programmes to the level of Master and PhD. Master programmes include MPharm in Hospital and Clinical Pharmacy, Industrial Pharmacy, Quality Control and Quality Assurance, Pharmaceutical Microbiology, Pharmacognosy and Medicinal Chemistry and MSc Pharmaceutical Management.

The School has skilled and well trained faculty capable of mentoring students to their bright future in pharmaceutical and other related fields. The school also boasts of a modern Research and Development (R&D) Laboratory acquired through the financial and technical assistance of the German-Tanzania Cooperation helps t n and Action Medior. It is the only R&D Laboratory of its kind in East and Central Africa that o equip students and faculty with state of the art skills in pharmaceutical manufacturing. Students will not regret to have chosen School of Pharmacy programmes.



*Students in a practical session*

## 4.2 PROGRAMMES

### 4.2.1 MSc Pharmaceutical Management Degree Programme

The Master of Science in Pharmaceutical Management is a four-semester degree programme, with each semester consisting of 24 weeks.

#### 4.2.1.1 Eligibility for Admission

- (i) Applicants with a B. Pharm. degree from a recognized University with a minimum cumulative GPA of 2.7.
- (ii) Each applicant must satisfy all the general requirements set out under the regulation for a Master's degree of the Muhimbili University of Health and Allied Sciences as listed in this prospectus and guidelines for postgraduate studies.

#### 4.2.1.2 MSc Pharmaceutical Management Degree Programme courses

##### Semester 1 year 1

Course Code	Course name	Core or Elective	Lecture (Hrs)	Tutorial/Seminar	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PM 600	Health Policy and Medicines regulation	Core	156	30	25	15	4	230	23.0
PM 601	General Management	Core	130	30	20	16	4	190	19
PM 602	Financial Management	Core	110	30	20	20	4	184	18.4
EE 600	Bioethics	Core	40	12	2	4	2	60	6
ER 600	Epidemiology, Biostatistics and Research Methodology	Core	6	30	10	22	18	86	8.6
Total			500	95	70	65	20	750	75.0

##### Semester 2 year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PM 603	Supply Chain Management	Core	132	60	30	20	5	247	24.7
PM 604	Managing rational use of medicines	Core	76	20	5	4	3	108	10.8
PM 605	Marketing Management	Core	97	10	3	3	2	115	11.5
PM610	Field attachment	Core	2	2	20	20	136	180	18.0
HE 600	Educational Principles and Practice for the health Sciences Professionals	Core	60	20	10	8	2	100	10.0
Total			367	112	68	55	148	750	75.0

### Semester 3 Year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PM 699	Dissertation: Module 1: Proposal writing and data collection	Core	5	5	20	20	700	750	75.0
Total			5	5	20	20	700	750	75.0

### Semester 4: Year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PM 699	Dissertation: Module 2: Data analysis write up, defense and submission	Core	5	5	20	20	700	750	75.0
Total			5	5	20	20	700	750	75.0

## 4.2.2 MASTER OF PHARMACY (MPHARM) DEGREE PROGRAMMES

These are four semester competency-based programmes aimed at producing highly skilled human resource in pharmaceutical sciences to cater for the needs of the health service provision, industry, research and teaching institutions. Master of Pharmacy students will be enrolled to specialize in any of the following specialties in Pharmacy: -

- (i) Industrial Pharmacy
- (ii) Quality Control and Quality Assurance
- (iii) Hospital and Clinical Pharmacy
- (iv) Pharmacognosy
- (v) Medicinal Chemistry
- (vi) Pharmaceutical Microbiology

### 4.2.2.1 Entry requirements

- (i) Applicants with a B. Pharm. degree from a recognized University with a minimum cumulative GPA of 2.7 or an equivalent qualification will be eligible for enrollment for the degree of Master of Pharmacy by coursework and dissertation.
- (ii) Each candidate must satisfy the entire general requirements set out under the regulation for a Master's degree of the University.

### 4.2.3 MPharm Industrial Pharmacy Degree Programme courses

#### Semester 1 Year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PT 600	Pharmaceutical Technology and Drug Development	Core	23.8	71.4	23.8	71.4	47.6	238	23.8
PT 601	Advance Biopharmaceuticals and Pharmacokinetics	Core	11.4	34.2	11.4	34.2	22.8	114	11.4
PT 602	Regulatory affairs, safety and environmental management	Core	12.4	37.2	12.4	37.2	24.8	124	12.4
PC 601	Modern techniques in pharmaceutical analysis	Core	12.8	38.4	12.8	38.4	25.6	128	12.8
ER 600	Epidemiology, Biostatistics and Research Methodology	Core	6	30	10	22	18	86	8.6
EE 600	Bioethics	Core	40	12	2	4	2	60	6
<b>Total</b>			106.4	223.2	72.4	207.2	140.8	750	75

#### Semester 2 Year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PT 603	Good manufacturing practice	Core	13.2	39.6	13.2	39.6	26.4	132	13.2
PT 604	Pharmaceutical manufacturing management	Core	20.2	60.6	20.2	60.6	40.4	202	20.2
PT 610	Field attachment	Core	18	9	18	27	108	180	18
HE 600	Educational Principles and Practice for the health Sciences Professionals	Core	68	5	19	15	2	100	10
PB 604	Industrial Pharmaceutical Microbiology	Core	13.6	40.8	13.6	40.8	27.2	136	13.6
<b>Total</b>			133	155	84	183	204	750	75



### Semester 3 Year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PT 699	Dissertation: Module 1: Proposal writing and data collection	Core	5	5	10	480	250	750	75
<b>Total</b>			5	5	10	480	250	750	75

### Semester 4 Year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PT 699	Dissertation: Module 2 Analysis write-up and examination	Core	5	5	10	480	250	750	75
<b>Total</b>			5	5	10	480	250	750	75

## 4.2.4 MPharm Quality Control and Quality Assurance Degree Programme courses

### Semester 1 Year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PC 601	Modern techniques in pharmaceutical analysis	Core	43.5	130.5	43.5	130.5	87	435	43.5
PC 602	Drug metabolism	Core	18.4	55.2	18.4	55.2	36.8	184	18.4
ER 600	Epidemiology, Biostatistics and Research Methodology	Core	6	30	10	22	18	86	8.6
EE 600	Bioethics	Core	40	12	2	4	2	60	6
<b>Total</b>			107.9	227.7	73.9	211.7	143.8	765	<b>76.5</b>

### Semester 2 year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PC 603	Pharmaceutical Quality Assurance and Regulatory Affairs.	Core	28.3	84.9	28.3	84.9	56.6	283	28.3

PB 601	Microbial aspects of Pharmaceutical Manufacturing	Core	15	45	15	45	30	150	15
HE 600	Educational Principles and Practice for the health Sciences Professionals	Core	68	5	10	15	2	100	10
PQ 610	Fieldwork	Core	23.5	70.5	23.5	70.5	47	235	23.5
Total			134.8	205.4	76.8	215.4	135.6	768	<b>76.8</b>

### Semester 3 year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PQ 699	Dissertation: Module 1	Core	18	18	18	180	498	732	73.2
Total			18	18	18	180	498	732	<b>73.2</b>

### Semester 4 year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PQ 699	Dissertation: Module 2	Core	18	18	18	180	498	732	73.2
Total			18	18	18	180	498	732	<b>73.2</b>

## 4.2.5 MPharm Hospital and Clinical Pharmacy Degree Programme Courses

### Semester 1 year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
AT 600	Applied Therapeutics	Core	53	151	50	106	101	461	46.1
PH 600	Clinical Physiology	Core	4	67	10	20	4	105	10.5
ER 600	Epidemiology, Biostatistics and Research Methodology	Core	6	30	10	20	18	84	8.4
EE 600	Bioethics	Core	6	18	6	18	12	60	6
Total			69	266	76	158	135	704	<b>75.4</b>

### Semester 2 year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
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HE 600	Educational Principles and Practice for the health Sciences Professionals	Core	68	5	10	15	2	100	10
PB 602	Molecular Immunology and Control of Hospital Infection	Core	18	54	18	54	36	180	18
AT 601	Therapeutics clinical rotations and Nursing practice	Core	15	15	15	45	210	300	30
AT 602	Clinical Pharmacokinetics	Core	54	18	54	36	18	180	18
Total			155	92	97	150	266	760	76

### Semester 3 year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
AT 603	Therapeutics based clinical Rotations and teaching assignments	Core	20	20	20	60	280	400	40
AT 699.01	Dissertation module 1: Proposal development , data collection	Core	7	22	7	111	221	368	36.8
Total			27	42	27	171	501	768	76.8

### Semester 4 year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
AT 699.02	Dissertation module 2: Analysis write-up and examination	Core	27	42	27	171	501	768	76.8
Total			27	42	27	171	501	768	76.8

#### 4.2.6 MPharm Pharmacognosy Degree Programme courses

##### Semester 1 year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PG 600	Natural Products, Drug Discovery and Tanzanian Medicinal Plants	Core	37	109	37	109	73	365	36.5
PG601	Phytotherapy	Core	24	72	24	72	47	239	23.9
ER 600	Epidemiology, Biostatistics and Research Methodology	Core	6	30	10	22	18	86	8.6
EE 600	Bioethics	Core	40	12	2	4	2	60	6
Total			107	223	73	207	140	750	75

##### Semester 2 year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PG 602	Phytopharmaceutical development and Quality assurance	Core	37	111	37	111	74	370	37
PG 610	Field work	Core	10	10	30	30	200	280	28
HE 600	Educational Principles and Practice for the health Sciences Professionals	Core	68	5	10	15	2	100	10
Total			115	126	77	156	276	750	75

### Semester 3 year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PG 699	Dissertation Module1 Proposal development, ethical clearance and data collection	Core	10	10	10	150	520	750	750
Total			10	10	10	150	520	750	75

### Semester 4 year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PG 699	Dissertation Module 2: Data analysis, write-up, dissemination and examination	Core	10	10	10	150	520	750	750
Total			10	10	10	150	520	750	75

### 4.2.7 MPharm Medicinal Chemistry Programme courses

#### Semester 1 year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PC 602	Drug Metabolism and Drug Analysis	Core	18	56	18	55	37	184	<b>18.4</b>
PC 604	Advanced Organic and Heterocyclic Chemistry	Core	38	115	38	115	77	383	<b>38.3</b>
ER 600	Epidemiology, Biostatistics and Research Methodology	Core	6	30	10	22	18	86	<b>8.6</b>
EE600	Bioethics	Core	40	12	2	4	2	60	<b>6</b>
<b>Total</b>			102	213	68	196	134	713	<b>71.3</b>

### Semester 2 year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PC 605	Drug Design and Receptor Theory in Drug Discovery	Core	8	26	8	27	17	86	8.6
PC 606	Instrumental Methods and Organic Spectroscopy	Core	21	63	21	63	42	210	10
HE 600	Educational Principles and Practices For Health Sciences Professionals	Core	68	5	10	15	2	100	10
MC 210	Field Work	Core	0	0	80	100	150	330	33
<b>Total</b>			97	94	119	205	211	726	72.6

### Semester 3 year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PC 699	Dissertation module 1	Core	18	18	18	180	534	768	76.8
<b>Total</b>			18	18	18	180	534	768	76.8

### Semester 4 year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PC 699	Dissertation module	Core	18	18	18	180	534	768	76.8
<b>Total</b>			18	18	18	180	534	768	76.8

### 4.2.8 MPharm Pharmaceutical Microbiology Programme courses

#### Semester 1 year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
AT 600	Applied Therapeutics	Core	53	151	50	106	101	461	46.1

ER 600	Epidemiology, Biostatistics and Research Methodology	Core	6	30	10	22	18	86	8.6
EE 600	Bioethics	Core	40	12	2	4	2	60	6
Total			99	193	62	132	121	607	<b>60.7</b>

### Semester 2 year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PB 601	Microbial aspects of Pharmaceutical Manufacturing	Core	24.2	72.6	24.2	72.6	48.4	242	24.2
PB 602	Molecular Immunology and Control of Hospital Infection	Core	26.4	79.2	26.4	79.2	52.8	264	26.4
PB 603	Pharmaceutical Microbiology Field Work	Core	16.7	50.1	16.7	50.1	33.4	167	16.7
HE 600	Educational Principles and Practices for the Health Sciences Professionals	Core	68	5	10	15	2	100	10
Total			135.3	206.9	77.3	216.9	136.6	773	<b>77.3</b>

### Semester 3 year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PB 699	Dissertation 1: proposal development Data Collection and Analysis	Core	19	19	19	190	539	786	78.6
Total			19	19	19	190	539	786	<b>78.6</b>

### Semester 4 year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PB 699	Dissertation 2: Dissertation Write-up and Submission	Core	19	19	19	190	539	786	78.6
Total			19	19	19	190	539	786	<b>78.6</b>



***Laboratory practical session preparation at the School of Pharmacy***

**4.3 Examination Regulations for MSc Pharmaceutical Management and MPharm Degree Programmes**

- (i) General University Examination regulations on registration, registration for examinations, professional conduct, eligibility for examination, absence from examination, Board of Examiners, conduct of examinations, Examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in Chapter One.
- (ii) MSc Pharmaceutical Management and MPharm are 4-semester programmes and the maximum tenure for each programme shall be 6 semesters.
- (iii) Registration for full time students shall be once at the beginning of each semester.
- (iv) All modules or modular courses offered during a semester shall be examined at the end of the module or modular course. External examiners or moderators shall be invited at the end of the semester or audit year.
- (v) There shall be at least two Continuous Assessment Tests (CAT) for each module/modular course or rotation taught during the semester and regular assessment of competencies. CAT and assessment of competencies shall constitute the Formative Assessment (FA).
- (vi) The FA shall contribute 50% to the final grade in the end of module/modular course or rotation Summative Assessment (SA). The SA shall include assessment of relevant competence domains using appropriate tools.
- (vii) The SA shall consist of written, practical and oral components whose proportional contribution will be 40%, 50% and 10%, respectively but assessment shall be conducted as in (vi) above.
- (viii) To pass a module/course a candidate has to attain a B grade or higher.
- (ix) Decision-making on failing students shall be determined at the end of the audit year.
- (x) No candidate shall be allowed to sit for supplementary in more than three failed courses at any given time irrespective of GPA and shall be discontinued from the programme.



- (xi) A candidate who fails any number of modules, modular courses or rotations and has a GPA of less than 2.4 shall be discontinued from studies.
- (xii) Supplementary examination for a failed module(s) or rotation(s) shall be offered at the end of long vacation.
- (xiii) A candidate who fails the first supplementary examination shall be allowed to sit for a second supplementary examination when next offered provided he/she has a GPA of 2.7 or above.
- (xiv) A candidate who fails the second supplementary examination in semesters 1 - 2 shall be discontinued from the studies, except in special circumstances, if recommended by the School of Pharmacy Board and Senate Higher Degrees Committee and approved by the University Senate. A candidate who fails the second supplementary in semester 3 and 4 shall be allowed to supplement the failed course/courses provided the maximum tenure of 6 semesters is not exceeded.
- (xv) For programmes with clinical components, to pass the end of module/modular course or rotation examination the written and clinical/practical parts have to be PASSED SEPARATELY.
- (xvi) A candidate who passes a supplementary examination at any level shall be awarded a "B" grade.
- (xvii) No candidate will be allowed to repeat a semester except in very exceptional circumstances, on the recommendation of the School Board and approved by the Senate.
- (xviii) A student shall be awarded the MSc Pharmaceutical Management or MPharm degree after passing all examinations for the prescribed courses in the programme and submitting an error free dissertation.
- (xix) In addition to these regulations, the General Regulations and Guidelines of Postgraduate Study Programmes shall be binding.
- (xx) Notwithstanding the above regulations, postgraduate students are bound by civil service regulations and shall have a leave once in a year during the long vacation.

#### **4.4 Regulations for dissertation for MSc Pharmaceutical Management and MPharm Degree Programmes**

- (i) The dissertation shall consist of one research topic. This will be determined by the candidate and approved by the department.
- (ii) Four loosely bound copies of the dissertation shall be submitted to the Dean of the School of Pharmacy at least THREE MONTHS before the beginning of semester 4 University examinations. A candidate who does not submit a dissertation at this period shall be barred from sitting for that final examination.
- (iii) The candidate will be required to submit loosely bound copies of the dissertation not less than three months prior to the examination when next offered provided that regulation on maximum tenure for MPharm/MSc degrees allows.
- (iv) Oral defense of the dissertation shall be done during the end of semester 4 University examinations.
- (v) A candidate, having passed all semester examinations, shall be required to re-submit error-free dissertation within 3 months in the case of minor corrections and within 6 months if there are major corrections.

- (vi) A dissertation re-submitted after major corrections shall be re-examined by both internal and external examiners.
- (vii) In case of outright rejection of a dissertation a candidate may submit another dissertation for examination after 9 months provided the maximum tenure allows.
- (viii) A dissertation rejected by examiners after re-submission shall not be accepted for re-examination at this University.

**4.3.5 The grading system shall be as follows:**

<b>Grade</b>	<b>A</b>	<b>B+</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>Percent</b>	100-70	69-60	59-50	49-40	39-0
<b>GP</b>	5.0-4.4	4.3-3.5	3.4-2.7	2.6-2.0	1.9-0

**4.4 MASTER OF SCIENCE BY RESEARCH AND PHD PROGRAMMES**

The common regulations (as appears in the MUHAS General Regulations and Guidelines for Postgraduate study Programmes) for MSc by Research and Publications and Doctor of Philosophy degrees of the University in all Schools and Academic Institutes apply.

## **CHAPTER FIVE: SCHOOL OF NURSING**

### **5.1 INTRODUCTION**

The Muhimbili University of Health and Allied Science (MUHAS) pioneered the development of nursing degree programmes in the country even before the inception of MUCHS in 1991. The simultaneous growth of the University and the School of Nursing (SON) marks the growth of the Nursing profession in the country and without doubt, it has been highly successful. This is in keeping with the vision of the School to become a centre of excellence in nursing education, service provision, research and consultancy.

By this vision, the SON has performed its role as the premier provider of nursing professionals who now hold leading positions in both governmental and non-governmental organizations, and the school also provides the majority of teachers for other Schools of Nursing in the various Universities in the country.

The SON gives students opportunity for professional growth that has abundant benefits, many of which are unexplored. At present, nurses have an extended role in health services and the various programmes that we offer provides an opportunity to unique prospects in career development.

The School offers postgraduate degree programmes to the level of Master and PhD. Master programmes include Master of Science in Nursing Mental Health (MScN MH), Master of Science in Nursing Critical Care and Trauma (MScN CCT) and Master of Science Midwifery and women's health (MSc MWH)

### **5.2 PROGRAMMES**

#### **5.2.1 Master of Science in Nursing Mental Health (MScN MH) Degree Programme**

This programme aims at producing a competent mental health nurse specialist working in general and specialized mental health care facilities, teaching institutions, community organizations, as well as different levels of policy development and implementation in the country.

##### **5.2.1.1 Entry requirements**

- (i) Applicants with a BSc Nursing degree and a minimum cumulative GPA of 2.7 of this University
- (ii) A graduate of other recognized University who has been admitted to the status of BSc Nursing or Equivalent with a minimum GPA of 2.7.
- (iii) Each applicant must satisfy all the general requirements set out in the general guidelines and regulations for Master degree courses of the University.

**5.2.1.1.1. Master of Science in Nursing Mental Health (MScN MH) Degree Programme courses**

**Semester 1 Year 1**

<b>Code</b>	<b>Course name</b>	<b>Lecture (Hrs)</b>	<b>Tutorial/Seminar (Hrs)</b>	<b>Assignment (Hrs)</b>	<b>Independent Study (Hrs)</b>	<b>Practical (Hrs)</b>	<b>Total (Hrs)</b>	<b>Credits</b>
SEMESTER 1: CREDITS 76.3								
MH 601	Advanced therapeutic skills and Mental Health Practice	73	74	74	30	366	617	61.7
ER 600	Epidemiology and Biostatistics	6	30	10	22	18	86	8.6
EE 600	Bioethics	6	18	6	18	12	60	6

**Semester 2 Year 1**

SEMESTER 2: CREDITS 78.2								
MH 602	Child and Adolescent Mental Health	73	74	74	20	366	607	60.7
HE 600	Educational Principles and Practices for the Health Sciences Professionals	68	5	10	15	2	100	10
NC 699	Nursing Research	10	10	40	5	10	75	7.5

**Semester 3 Year 2**

<b>Code</b>	<b>Course name</b>	<b>Lecture (Hrs)</b>	<b>Tutorial/Seminar (Hrs)</b>	<b>Assignment (Hrs)</b>	<b>Independent Study (Hrs)</b>	<b>Practical (Hrs)</b>	<b>Total (Hrs)</b>	<b>Credits</b>
SEMESTER 3: CREDITS 75.3								
MH 603	Advanced Community Mental Health Nursing	81	78	75	30	392	656	65.6
NC 699	:Proposal Development	20	17	20	30	10	97	9.7

## Semester 4 Year 2

SEMESTER 4: 70.2								
NC 699	Research Dissertation	88	45	450	29	90	702	70.2

### 5.2.2 Master of Science in Nursing Critical Care and Trauma (MScN CCT) Degree Programme

#### 5.2.2.1 Entry requirements

- (i) Applicants with a BSc Nursing degree and a minimum cumulative GPA of 2.7 of this University
- (ii) A graduate of other recognized University who has been admitted to the status of BSc Nursing or Equivalent with a minimum cumulative GPA of 2.7.
- (iii) Each applicant must satisfy all the general requirements set out in the general guidelines and regulations for Master degree courses of the University

#### 5.2.2.1.1 Master of Science in Nursing Critical Care and Trauma (MScN CCT) Degree Programme courses

### Semester 1 Year 1

Code	Course name	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
SEMESTER 1: CREDITS 76.3								
NC 601	Essential of Critical Care	73	74	74	30	366	617	61.7
ER 600	Epidemiology and Biostatistics	6	30	10	22	18	86	8.6
EE 600	Bioethics	6	18	6	18	12	60	6

### Semester 2 Year 1

SEMESTER 2: CREDITS 78.2								
NC 602	Applied Critical Care	73	74	74	20	366	607	60.7

HE 600	Educational Principles and Practices for the Health Sciences Professionals	68	5	10	15	2	100	10
NC 699	Nursing Research	10	10	40	5	10	75	7.5

### Semester 3 Year 2

Code	Course name	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
SEMESTER 3: CREDITS 75.3								
NC 606	Emergency and Trauma Care	81	78	75	30	392	656	65.6
NC 699	Proposal Development	20	17	20	30	10	97	9.7

### Semester 4 Year 2

SEMESTER 4: CREDITS 70.2								
NC 699	Research Dissertation	88	45	450	29	90	702	70.2

## 5.2.3 Master of Science Midwifery and women's health (MSc MWH) Degree Programme

### 5.2.3.1 Entry requirements

- (i) Applicants with a BSc Nursing degree and a minimum cumulative GPA of 2.7 of this University
- (ii) A graduate of other recognized University who has been admitted to the status of BSc Nursing or Equivalent with a minimum cumulative GPA of 2.7.
- (iii) Each applicant must satisfy all the general requirements set out in the general guidelines and regulations for Master degree courses of the University

#### 5.2.3.1.1 Master of Science Midwifery and women's health (MSc MWH) programme courses

### Semester 1 Year 1

Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
SEMESTER 1: CREDITS 76.3								
MW 601	Essentials of Midwifery practice, family planning and reproductive technologies	110	73	37	30	367	617	61.7
ER 600	Epidemiology, Biostatistics and Research Methodology	6	30	10	22	18	86	8.6
EE 600	Bioethics	6	18	6	18	12	60	6

### Semester 2 Year 1

SEMESTER 2: CREDITS 78.2								
MW 602	Advanced Antenatal Care	104	69	35	54	345	607	60.7
HE 600	Educational Principals and Practices for the Health Sciences Professionals	68	5	10	15	2	100	10
NC 699	Nursing Research	10	10	40	5	10	75	7.5

### Semester 3 Year 2

Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
SEMESTER 3: CREDITS 75.3								
MW 603	Advanced Intrapartum, Postpartum and Neonatal care	118	78	40	30	391	657	65.7
NC 699	Research Dissertation (Proposal Development	20	17	20	29	10	96	9.6

## Semester 4 Year 2

SEMESTER 4: CREDITS 70.2								
NC 699	Research Dissertation	88	45	450	29	90	702	70.2

### 5.2.3 Examination Regulations for MSc Nursing and MSc Midwifery and women's Health Degree Programmes

- (i) General University Examination regulations on registration for examination, eligibility for examination, absence from examination, Board of Examiners, conduct of examinations, Examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in Chapter one.
- (ii) The MScN degrees are 4-semester programmes and the maximum tenure allowed for the degree shall be 6 semesters.
- (iii) Registration for full time students shall be once at the beginning of each semester.
- (iv) All modules or modular courses offered during a semester shall be examined at the end of the module or modular course or rotation. External examiners or moderators shall be invited at the end of the semester or audit year.
- (v) There shall be at least two Continuous Assessment Tests (CAT) for each module taught during semester one, and at least one CAT in each of semesters 2-6 and regular assessment of competencies. These shall form the Formative Assessment (FA).
- (vi) The FA in semesters 2-6 shall consist of evaluation of clinical and other competency domains using appropriate tools in addition to written examination.
- (vii) The FA shall contribute 50% of the final grade in the end of module/modular course/rotation Summative Assessment (SA).
- (viii) The SA for semesters 2-6 shall consist of written, clinical/practical and oral components whose proportional contribution will be 40%, 50% and 10%, respectively conducted using competency assessment tools as in (v) above.
- (ix) To pass a course a candidate has to attain a B grade or higher.
- (x) Decision-making on failing students in basic science courses shall be determined at the end of the audit year.
- (xi) No candidate shall be allowed to sit for supplementary in more than three failed courses at any given time irrespective of GPA and shall be discontinued from the programme.
- (xii) Candidates who are full time graduate students are required to have attained a minimum GPA of 2.4 before proceeding to the following year of study.
- (xiii) A candidate who passes the examination with a B grade or higher will be declared to have passed the examination.
- (xiv) A candidate who scores a GPA of 2.4 or higher, but fails in 3 courses or less at end of the audit year shall be required to supplement in the failed modules in the course(s).
- (xv) A candidate who scores a GPA of 2.4 or higher, but fails in more than 3 courses shall be discontinued from studies.
- (xvi) A candidate who fails all courses shall be discontinued from the studies irrespective of the GPA.
- (xvii) A candidate may be allowed to sit for a second supplementary examination in failed course(s) if he or she has attained a GPA of 2.7 or above.
- (xix) A candidate who fails the second supplementary examination in semesters 1 - 2 for one or two year programmes, shall be discontinued from the programme, except in special



circumstances, if recommended by the School Board and Senate Higher Degrees Committee and approved by the Senate.

- (xx) A candidate who fails the second supplementary examination in semesters 3-4 for two year programmes shall be allowed to supplement the failed courses/modules/modular courses after semester four, provided the maximum tenure of 6 semesters is not exceeded.
- (xxi) A student who passes a supplementary examination at any level shall be awarded a "B" grade.
- (x) To pass the end of module/modular course/rotation examinations in semesters 2-4 the written and clinical/practical parts have to be PASSED SEPARATELY.
- (xxii) No candidate will be allowed to repeat a semester except in very exceptional circumstances, on the recommendation of the School Board and approved by the Senate.
- (xxiii) A student shall be awarded the MScN degree after passing all examinations in the prescribed courses in the relevant MScN programme and submitting an error free dissertation.
- (xxiv) For all post graduates programmes the General Regulations and Guidelines of Postgraduate Study Programmes shall be binding.

#### **5.2.4 Regulations on MSc in Nursing and MSc Midwifery and women's Health Degree Programme dissertations**

- (i) The dissertation shall consist of one research topic. This will be determined by the candidate and approved by the department.
- (ii) Four loosely bound copies of the dissertation shall be submitted to the Dean of the School of Nursing at least THREE MONTHS before the beginning of semester 4 University examinations. A candidate who does not submit a dissertation at this period shall be barred from sitting for those final examinations. The candidate will be required to submit loosely bound copies of the dissertation not less than three months prior to the examination when next offered provided that the regulation on maximum tenure for MSc N degrees allows.
- (iii) Oral defense of the dissertation shall be done during the end of semester 4 University examinations.
- (iv) A candidate, having passed all semester examinations, will be required to re-submit error-free dissertation within three months in the case of minor corrections and within six months if there are major corrections.
- (v) A dissertation re-submitted after major corrections shall be re-examined by both internal and external examiners.
- (vi) In case of outright rejection of a dissertation a candidate may submit another dissertation for examination after nine months provided the maximum tenure allows.
- (vii) A dissertation rejected by examiners after re-submission shall not be accepted for re-examination at this University.
- (viii) No candidate will be allowed to repeat a semester except in very exceptional circumstances, on the recommendation of the School Board and approved by the Senate.

### 5.3.5 The Grading system

The examination marks shall be graded as shown below: -

<b>Grade</b>	<b>A</b>	<b>B+</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>Percent</b>	100-70	69-60	59-50	49-40	39-0
<b>GP</b>	5.0-4.4	4.3-3.5	3.4-2.7	2.6-2.0	1.9-0

### 5.4 MASTER OF SCIENCE BY RESEARCH AND PHD PROGRAMMES

The common regulations (as appears in the MUHAS General Regulations and Guidelines for Postgraduate study Programmes) for MSc by Research and Publications and Doctor of Philosophy degrees of the University in all Schools and Academic Institutes apply.

## **CHAPTER SIX: SCHOOL OF PUBLIC HEALTH AND SOCIAL SCIENCES**

### **6.1 INTRODUCTION**

The School of Public Health and Social Sciences (SPHSS) is one of five schools within Muhimbili University of Health and Allied Sciences (MUHAS). The School came into being after the amalgamation of the former Institute of Public Health, the Institute of Development Studies and the Institute of Primary Health Care and Continuing Education. The Institute of Public Health however dates back to July 1991 when it was established after the then faculty of medicine was upgraded into a college. Currently the SPHSS has six departments: Behavioural Sciences; Community Health; Development Studies; Epidemiology and Biostatistics; Parasitology and Medical Entomology; and Environmental and Occupational Health.

The vision of the Muhimbili School of Public Health and Social Sciences is to become a centre of excellence in the field of Public Health both at home in Tanzania, East Africa, and beyond. The mission of SPHSS is to provide quality teaching, research, consultancy and public health services to the people of Tanzania and beyond using public health principles. All these elements also aim at addressing the core functions of the University: training of human resources for health in both formal and continuing education as well as using professional development approaches; conducting research relevant to solving community health problems; and providing technical assistance in various public health disciplines to partners, collaborators, ministries and implementers of public health interventions. The School realizes that collaborative work with various stakeholders and partners is fundamental to achieving these noble objectives.

The School has more than 60 members of staff 24 of these having acquired PhDs from various re-known Universities across the world thus bringing home a wealth of skills, experience and competences to share with stakeholders especially students. The School has a wealth of experience in conducting research and community service activities within Tanzania and beyond and collaborates with a number of partner Universities, Governments, and Research Institutions and not least the communities we serve.

The school members of academic staff teach across the University in cross cutting subjects, and the School is host to fourteen postgraduate programmes with a total of 145 students. Summaries of the current programmes are presented hereunder. The school is looking forward to starting new Master programmes including Master of Business Administration – Health Services Management (MBA–HSM), MSc Biostatistics and Master of Health Delivery Sciences in the near future.

### **6.2 PROGRAMMES**

#### **6.2.1 Master of Arts (MA) in Health Policy and Management Degree Programme**

This program is designed to equip participants with essential management and policy knowledge and skills as applied to the health and related sectors. Graduates of this program are expected to play key roles as policy analysts and managers at districts, regional and national level health system positions. They are also expected to work as program managers/officers of health and health related programmes both within public and non-public sectors.

**6.2.1.1 Entry requirements**

- (i) Holders of a first degree in Medicine, Dental Surgery, Pharmacy, Environmental Health Sciences or Nursing from this University or any other recognized University with a cumulative GPA of 2.7 or more.
- (ii) Graduates from other recognized universities with at least a cumulative GPA of 2.7 or above in their final examinations in sociology, anthropology, health statistics, demography, biology, food sciences, human nutrition, veterinary sciences, epidemiology, health information sciences and other related fields.
- (iii) In addition to the above entry requirements, candidates who have worked as programme managers or officers in the health or health related activities will have an added advantage.

**6.2.1.1.1 Master of Arts (MA) Health Policy and Management Degree courses**

Code	Course name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent study (Hrs)	Practicals (Hrs)	Total (Hrs)	Credits
<b>SEMESTER 1: 78.0 CREDITS</b>								
FP 600	Principles of Public Health and One health	11	14	7.5	30	7.5	70	7
FP 601	Principles of Epidemiology	16	11	14	24	20	85	8.5
FP 602	Biostatistics	15	14	10.5	31	14.5	85	8.5
FP 603	Health Management, Planning and Policy	18	24.5	12.5	48.5	18	122	12.2
FP 604	Introduction to Environmental and Occupational Health	12	15	7	28	10	72	7.2
FP 606	Research Methods	19	7	22.5	42	23.5	114	11.4
FP 607	Implementing Behavior Change	10	14	7	28	11	70	7
HP 600	Gender and Health	15	40	15	9	2	81	8.1
HP 601	Pandemics and Socio Economic development	16	40	8	10	7	81	8.1
Total		132	179.5	104	250.5	113.5	780	78
<b>SEMESTER 2: 78.0 CREDITS</b>								

Code	Course name	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent study (Hrs)	Practicals (Hrs)	Total (Hrs)	Credits
HP 602	Globalization and Health	15	50	15	17	3	100	10
HP 603	Health Care Strategic Management	20	64	25	40	11	160	16
HP 604	Advanced Health Policy Analysis	15	66	25	42	12	160	16
HP 605	Health Economics and Financial Management	20	70	30	30	10	160	16
HP 606	Ethics and Legal Issues in Health	10	45	25	15	5	100	10
HE 600	Educational Principles and Practices for the Health Sciences Professionals	10	40	30	10	10	100	10
TOTAL		90	335	150	154	51	780	78
<b>SEMESTER 3: 66.0 CREDITS</b>								
Code	Course name	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent study (Hrs)	Practicals (Hrs)	Total (Hrs)	Credits
HP 607	Project management, Monitoring and Evaluation in Health Interventions	25	31	18.5	25	24.5	180	18
HP 699	Dissertation	15	90	30	300	45	480	48
Total		40	121	21.5	325	69.5	660	66
<b>SEMESTER 4: 78.0 CREDITS</b>								
Code	Course name	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent study (Hrs)	Practicals (Hrs)	Total (Hrs)	Credits
HP 699	Dissertation	5	15	100	645	15	780	78
Total		5	15	100	650	15	780	78

### **6.2.1.2 Examination regulations for MA Health Policy and Management**

- (i) General University Examination regulations on registration, registration for examinations, professional conduct, eligibility for examination, absence from examination, Board of Examiners, conduct of examinations, Examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in Chapter one.
- (ii) The academic year is the basic academic audit unit.
- (iii) The Master of Arts degree in Health Policy and Management is a 4-semester programme and the maximum tenure for the degree shall be 6 semesters.
- (iv) The maximum freezing period shall be 2 semesters.
- (v) Registration for full time students shall be once at the beginning of each semester.
- (vi) There shall be at least two continuous assessment tests (CAT) and regular assessment of competencies for each module/modular course taught during each semester and these shall constitute the Formative Assessment (FA). Final end of module/modular course examination shall constitute the Summative Assessment (SA).
- (vii) The FA shall contribute 50% of the final grade in the end of module/modular course university examinations.
- (viii) All modules/modular courses offered during a semester shall be examined at the end of the module. For this purpose there will be end of module examinations.
- (ix) At the end of the audit year external examiners or moderators will be invited.
- (x) Decision-making on the students shall be determined at the end of the audit year after computing cumulative GPA for each candidate.
- (xi) A candidate who fails any number modules/modular courses shall be allowed to proceed to the next semester but shall be required to sit for a supplementary examination(s) in the failed modules before the beginning of the next audit year provided he/she has a GPA of 2.7 or more.
- (xii) No candidate shall be allowed to sit for supplementary examinations in more than three failed modules/modular courses and shall be discontinued from studies.
- (xiii) A candidate who fails the first supplementary examination shall be allowed to sit for a second supplementary examination when next offered provided he/she has a GPA of 2.4 or more.
- (xiv) A candidate who fails the second supplementary examination shall be discontinued from studies, except in special circumstances, if recommended by the SPHSS Board and approved by the University Senate.
- (xv) A candidate who fails any number of modules/modular courses during first sitting and has a GPA of less than 2.4 shall be discontinued from the course.
- (xvi) The pass mark for the examinations in the Master of Arts in Health Policy and Management programme shall be 50%.
- (xvii) A candidate who passes a supplementary examination at any level shall be awarded a “B” grade for that particular module or course.
- (xviii) No candidate will be allowed to repeat a semester except in very exceptional circumstances, on the recommendation of the School Board and Senate Higher Degrees Committee and approved by the University Senate.
- (xix) The MA Health Policy and Management degree shall not be classified.
- (xx) In addition to these Regulations the General Regulations and Guidelines for postgraduate study programmes shall be binding.

- (xxi) Notwithstanding these regulations, postgraduate students are governed by civil service regulations and shall have only one leave in a year during the long vacation.

### 6.2.1.3 Grading system

The examination marks shall be graded as shown below: -

Grade	A	B+	B	C	D
Percent	100-70	69-60	59-50	49-40	39-0
GP	5.0-4.4	4.3-3.5	3.4-2.7	2.6-2.0	1.9-0

### 6.2.1.4 Regulations on dissertation

- (i) For one to qualify for the award of Master Degree in Health Policy and Management he/she must pass all modules/modular courses examinations and the dissertation.
- (ii) The dissertation shall consist of one research topic chosen by the student and approved by the department.
- (iii) Four loosely bound copies of the dissertation shall be submitted to the Dean of the School at least THREE MONTHS before the beginning of the last module/modular course or rotation examinations in the final semester. A candidate who does not submit a dissertation at this period shall be barred from sitting for final that examination. The candidate shall be required to submit loosely bound copies of the dissertation not less than three months prior to the examination when next offered provided that the regulation on maximum tenure for the degree allows.
- (iv) Oral defense of the dissertation shall be done during the end of last semester University examinations.
- (v) A candidate whose dissertation is considered unsatisfactory having passed all module/modular course examinations shall be required to re-submit the dissertation for examination within 3 months in the case of minor corrections and within 6 months if there are major corrections.
- (vi) In case of outright rejection of a dissertation a candidate may submit another dissertation for examination after 9 months provided the maximum tenure allows.
- (vii) A dissertation rejected by the examiners after re-submission shall not be accepted for re-examination.

### 6.2.2 Master of Medicine in Community Health (MMed Community Health) Programme

The aim of the MMed (Community Health) programme is to prepare the graduate as a Public health specialist with the community as the main focus, who is both a research and potential member of health planning and management committees within government as well as non- governmental organizations. To this end, the graduate is trained to develop knowledge and competences for managing health systems and for planning, initiating, monitoring and evaluating public health programmes.

### 6.2.2.1 Entry Requirements

- (i) Applicant who has Doctor of Medicine (MD) degree with a minimum cumulative GPA of 2.7, having a “B” or higher grade in Community Medicine course and complies with the University admission regulations.
- (ii) Medical graduate from any other recognized University who has been awarded a Doctor of Medicine Degree with a minimum cumulative GPA of 2.7 at undergraduate level and complies with the University admission regulations
- (iii) A candidate for the MMed (Community Health) may register for the course not less than one year after the award of the MD degree

#### 6.2.2.1.1 MMed (Community Health) Degree Programme Courses

##### Semester 1 year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
FP 600	Principles of public health and one health	Core	11	14	7.5	30	7.5	70	7
FP 601	Principles of Epidemiology	Core	16	11	14	24	20	85	8.5
FP 602	Biostatistics	Core	15	14	10.5	31	14.5	85	8.5
FP 603	Health Management, Planning and Policy	Core	18	24.5	12.5	48.5	18	121.5	12.2
FP 604	Introduction to Environmental and Occupational health	Core	12	15	7	28	10	72	7.2
FP 606	Research Methods	Core	19	7	22.5	42	23.5	114	11.4
FP 607	Implementing behaviour change	Core	10	14	7	28	11	70	7
PQ 600	Special public health issues	Core	54	2	56	50	2	162	16.2
EE 600	Bioethics	Core	6	18	6	18	12	60	6
Total			161	117.5	143	300	118.5	840	84

##### Semester 2 year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
PQ 602	Health economics, financing and evaluation	Core	25	31	18.5	25	24.5	124	12.4



TD 601	Advanced Methods in Epidemiology and Biostatistics	Core	16	48	16	48	32	160	16
CH 600	Community Health	Core	2	100	25	150	225	502	50.2
HE 600	Educational Principles and Practices for the Health Sciences Professionals	Core	68	5	10	15	2	100	10
Total			111	184	69.5	238	283.5	886	88.6

### Semester 3 year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
CH 608.01	Field Attachment Module 1 : Teaching Practice	Core	30	120	32	180	261	623	62.3
PE 600	Parasitological and Medical Entomology	Core	2	34	8.5	51	76.5	172	17.2
MI 600	Microbiology Immunology	Core	22	46	30	84	70	252	25.2
Total			54	200	70.5	315	407.5	1047	104.7

### Semester 4 year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
CH 608.02	Field attachment Module 2: Programme leadership and management	Core	50	90	80	260	340	820	82
Total			50	90	80	260	340	820	82..0

### Semester 5 year 3

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
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CH 699.01	Dissertation module 1: Proposal development, data collection and data Analysis	Core	6	30	80	180	524	820	82
Total			6	30	80	180	524	820	82

### Semester 6 year 3

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
CH 699.02	Dissertation Module 2: Write up, submission, examination and disseminations	Core	4	10	45	145	616	820	82
Total			4	10	45	145	616	820	82

#### 6.2.2.1.2 Examination Regulations for MMed Community Health Degree Programme

- (i) General University Examination regulations on registration, registration for examinations, eligibility for examination, absence from examination, Board of examiners, conduct of examinations, examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in Chapter one.
- (ii) The MMed Community Health is a 6-semester programme and the maximum tenure for the MMed degree shall be 8 semesters.
- (iii) Registration for full time students shall be once at the beginning of each semester.
- (iv) There shall be at least two Continuous Assessment Tests (CAT) for each module taught and regular assessment of competencies, which will constitute the Formative Assessment (FA) during semester one, and at least one CAT and assessment of competencies in each of semesters 2-6.
- (v) The FA shall contribute 50% of the final grade in the end of module Summative Assessment (SA). Assessment of competencies shall be done through the use of appropriate tools.
- (vi) The FA and SA for semesters 2-6 shall consist of written, practical and oral components whose proportional contribution will be 40%, 50% and 10%, respectively assessed as in (v) above.
- (vii) To pass a module, modular course or fieldwork rotation a candidate has to attain a B grade or higher.
- (viii) Decision-making on failing students shall be determined at the end of the audit year.

- (ix) No candidate shall be allowed to sit for supplementary in more than three failed courses at any given time irrespective of GPA and shall be discontinued from the programme.
- (x) A candidate who fails in three or less modules, modular courses or rotations and has a GPA of less than 2.4 shall be discontinued from studies.
- (xi) A candidate who fails in three or less modules or modular courses shall be allowed to sit for a first supplementary examination provided he/she has a GPA of 2.4 or more.
- (xii) A candidate who fails the first supplementary examination shall be allowed to sit for a second supplementary examination in the failed modules, when next offered provided he/she has an average GPA of 2.7 or more.
- (xiii) A candidate who fails the second supplementary examination in semesters 1-4 shall be discontinued from the course, except in special circumstances, if recommended by the School Board and Senate Higher Degrees Committee and approved by the Senate. A candidate who fails the second supplementary examination in semesters 5-6 shall be allowed to supplement the failed modules/ modular courses after semester six provided the maximum tenure of eight semesters is not exceeded
- (xiv) A candidate who passes a supplementary examination at any level shall be awarded a "B" grade.
- (xv) No candidate will be allowed to repeat a semester except in very exceptional circumstances, on the recommendation of the School Board and approved by the Senate.
- (xvi) A student shall be awarded the MMed degree after passing all examinations in the prescribed modules in the courses in the MMed Programme and submitting an error free dissertation.
- (xvii) In addition to these regulations the General Regulation and guidelines for postgraduate study programmes shall be binding.
- (xviii) Notwithstanding the regulations above, postgraduate students are bound by civil service regulations and shall have only one leave in each year during the long vacation.

#### 6.2.2.1.3 The grading system

The examination marks shall be graded as shown below: -

Grade	A	B+	B	C	D
Percent	100-70	69-60	59-50	49-40	39-0
GP	5.0-4.4	4.3-3.5	3.4-2.7	2.6-2.0	1.9-0

#### 6.2.2.1.4 Regulations on dissertations for the MMed (Community Health) Degree

- (i) The dissertation shall consist of one research topic as has been determined by the student and approved by the department.
- (ii) Four loosely bound copies of the dissertation shall be submitted to the Dean of School of Public Health and Social Sciences at least THREE MONTHS before the beginning of semester 6 University examinations. A candidate who does not submit a dissertation at this period shall be barred from sitting

for the final examinations. The candidate will be required to submit loosely bound copies of the dissertation not less than three months prior to the examination when next offered provided that the maximum tenure for MMed degree allows.

- (iii) Oral defense of the dissertation shall be done during the end of semester 6 University examinations.
- (iv) A candidate, having passed all modular examinations, will be required to re-submit error-free dissertation within 3 months in the case of minor corrections and within 6 months if there are major corrections.
- (v) In case of outright rejection of a dissertation a candidate may submit another dissertation for examination after 9 months provided the maximum tenure allows.
- (vi) A dissertation rejected by examiners after re-submission shall not be accepted for re-examination at this University.

### **6.2.3 Master of Science in Tropical Diseases Control (MSc TDC) Degree Programme**

This is a four semesters (two years) programme designed to impart to students skills to carry out community diagnosis to identify priority health problems for relevant research and control, undertake scientific investigation on specific aspects related to epidemic and endemic tropical diseases; and design, implement and evaluate appropriate disease control programmes with community involvement. During Semester 2, candidates are required to major either in Epidemiology (in which case they will have to do TD 601) or Parasitology/Medical Entomology (in which case they will have to do PE 601).

#### **6.2.3.1 Entry Requirement**

- (i) A basic degree in Biology related subjects, and/or MD degree with a minimum cumulative GPA of 2.7 at undergraduate level.
- (ii) The candidate must satisfy the University postgraduate admission regulations as listed in the guidelines.

#### **6.2.3.1.1 Master of Science in Tropical Diseases Control Degree Programme Courses**

##### **Semester 1, year 1**

Course code	Course Name	Lecture Hrs	Tutorial/seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
FP600	Principles of Public Health and One health	11	14	7.5	30	7.5	70	7.0
FP601	Principles of Epidemiology	16	11	14	24	20	85	8.5
FP602	Biostatistics	15	14	10.5	31	14.5	85	8.5
FP603	Health Management, Planning and Policy	18	24.5	12.5	48.5	18	121.5	12.2
FP604	Introduction to Environmental and Occupational Health	12	15	7	28	10	72	7.2

FP606	Research Methods	19	7	22.5	42	23.5	114	11.4
FP607	Implementing behaviour Change	10	14	7	28	11	70	7.0
EE600	Bioethics	9	12	6.5	25.5	7	60	6.0
PE600.1	Parasitological and Medical Entomology: 1. Protozoology	8.2	24.6	8.2	24.6	16.4	82	8.2
Total		127.2	136.1	95.7	281.6	127.9	760	76.0

### Semester 2, year 1

Course code	Course Name	Lecture Hrs	Tutorial/seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
PE 600.2	Parasitological and Medical Entomology: 2. Helminthology and Entomology	17	51	17	51	34	170	17.0
PE 601*	Advanced Parasitology & Medical Entomology	16	48	16	48	32	160	16.0
TD 601*	Advanced Methods in Epidemiology and Biostatistics	16	48	16	48	32	160	16.0
PE 603	Disease Transmission dynamics and control	32	96	32	96	64	320	32.0
HE 600	Educational Principles and Practices for Health Sciences Professionals	10	30	10	30	20	100	10.0
Total		75	225	75	225	150	750	75.0

Optional courses:

\* Major in Parasitology/Medical Entomology

\*\*Major in Epidemiology

For someone to major in epidemiology, he/she must have scored B+ or higher in FP601 and FP602.

### Semester 3, year 2

Course code	Course Name	Lecture Hrs	Tutorial/seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
MI 610	Microbiology & Immunology	7	21	7	21	14	70	7.0
TD 605	Field attachment	0	88	88	132	132	440	44.0
TD 699.1	Dissertation Module I: Proposal Development	0	46	46	69	69	230	23.0
Total		7	155	141	222	215	740	74.0

## Semester 4, year 2

Course code	Course Name	Lecture Hrs	Tutorial/ seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
TD 699.2-4	Dissertation Module 2-4 Data collection; Data analysis; Dissertation submission, examination and dissemination	0	75	0	450	225	750	75.0
Total		0	75	0	450	225	750	75.0

### 6.2.3.1.2 Examinations regulations for MSc (TDC) Degree Programme

- (i) General University Examination regulations on registration, registration for examinations, professional conduct, eligibility for examination, absence from examination, Board of Examiners, conduct of examinations, Examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in Chapter one.
- (ii) The MSc TDC is a 4-semester programme and the maximum tenure for the MSc TDC degree shall be 6 semesters.
- (iii) External examiners or moderators shall be invited at the end of the semester or audit year.
- (iv) Registration of full-time students shall be once at the beginning of each semester.
- (v) There shall be at least two Continuous Assessment Tests (CAT) for each module taught and regular assessment of competencies, which will constitute the Formative Assessment (FA).
- (vi) The FA shall contribute 50% of the final grade in the end of module Summative Assessment (SA). Assessment of competencies will be done by use of appropriate tools.
- (vii) The FA and SA shall consist of written, practical and oral components whose proportional contribution will be 40%, 50% and 10%, respectively assessed as in (v) above.
- (viii) To pass a module or modular course a candidate has to attain a B grade or higher.
- (ix) Decision-making on failing students shall be determined at the end of the audit year.
- (x) A candidate who fails one or more modules or modular courses will be required to sit for supplementary examination in the failed modules provided that she/he attains an overall GPA of 2.4 or higher during the long vacation.
- (xi) Any candidate who has failed any number of modules in subjects and has a GPA of less than 2.4 shall be discontinued from the studies.
- (xii) Any candidate who has failed modules in three courses will be discontinued from the programme.
- (xiii) A candidate who fails the first supplementary examination shall be allowed to sit for a second supplementary examination when next offered, provided he/she attains a GPA of 2.4 or more

- (xiv) A candidate who passes a supplementary examination at any level shall be awarded a B grade
- (xv) A candidate who fails the second supplementary examination in semesters 1 - 2 shall be discontinued from the studies, except in special circumstances, if recommended by the School of Public Health and Social Sciences Board and Senate Higher Degrees Committee and approved by the University Senate. A candidate who fails the second supplementary in semester 3 and 4 shall be allowed to supplement the failed course/courses provided the maximum tenure of 6 semesters is not exceeded.
- (xvi) A candidate shall be awarded the degree of MSc (TDC) degree after passing all examinations in the prescribed courses in the MSc programme and submitting an error free dissertation
- (xvii) In addition to these regulations these General Regulations and Guidelines for postgraduate studies shall be binding.
- (xviii) Notwithstanding the regulations above, postgraduate students are bound by civil service regulations and shall have only one leave in each year during the long vacation.

#### **6.2.3.1.3 The Grading system**

The examination marks shall be graded as shown below: -

<b>Grade</b>	<b>A</b>	<b>B+</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>Percent</b>	100-70	69-60	59-50	49-40	39-0
<b>GP</b>	5.0-4.4	4.3-3.5	3.4-2.7	2.6-2.0	1.9-0

#### **6.2.3.1.4 Regulations for the Dissertations for MSc (TDC) Degree Programme**

- (i) The dissertation shall consist of one research topic as has been the student and approved by the departments.
- (ii) A candidate shall not be allowed to submit dissertation work for examination without passing all the courses for Semesters one and two
- (iii) Four loosely bound copies of the dissertation shall be submitted to the Dean of the School of Public Health and Social Sciences at least THREE MONTHS before the beginning of semester 4 University Examination. A candidate who does not submit a dissertation at this period shall be barred from final examinations. The candidate will be required to submit loosely bound copies of the dissertation not less than three months prior to the examination when next offered provided that period is not beyond the maximum tenure of the programme.
- (iv) Oral defense of the dissertation shall be done during the end of semester 4 University Examination
- (v) A candidate shall be required to re-submit dissertation within 3 months in the case of minor corrections and within 6 months if there are major corrections
- (vi) A dissertation re-submitted after major corrections shall be re-examined by both internal and external examiners
- (vii) In case of outright rejection of a dissertation a candidate may submit another dissertation for examination after 9 months provided the maximum tenure allows.
- (viii) A dissertation rejected by examiners after re-submission shall not be accepted for examination at this University.

## 6.2.4 Master of Science in Medical Parasitology and Entomology (MSc PE) Degree Programme

The MSc PE degree course is a four-semester (two years) degree programme aimed at training specialist who will strengthen regional and district teams in the management, control of, and research in parasitic diseases and their vectors. To this end the graduate will be expected to carry out basic and applied research, implement and evaluate public health interventions, train personnel and organize efficient parasite and vector control programmes.

### 6.2.4.1 Entry Requirements

- (i) Basic degree in Medicine, Dentistry, Pharmacy, Nursing and Veterinary medicine with a minimum cumulative GPA of 2.7 at undergraduate level.
- (ii) Graduates in Zoology and Biology with a minimum cumulative GPA of 2.7 at undergraduate level.

#### 6.2.4.1.1 MSc in Medical Parasitology and Entomology Degree Programme courses

##### Semester 1, year 1

Course code	Course Name	Lecture Hrs	Tutorial/ seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
FP600	Principles of Public Health and One health	11	14	7.5	30	7.5	70	7.0
FP601	Principles of Epidemiology	16	11	14	24	20	85	8.5
FP602	Biostatistics	15	14	10.5	31	14.5	85	8.5
FP603	Health Management, Planning and Policy	18	24.5	12.5	48.5	18	121.5	12.2
FP604	Introduction to Environmental and Occupational Health	12	15	7	28	10	72	7.2
FP606	Research Methods	19	7	22.5	42	23.5	114	11.4
FP607	Implementing behaviour Change	10	14	7	28	11	70	7.0
EE600	Bioethics	9	12	6.5	25.5	7	60	6.0
PE 600.1	Parasitological and Medical Entomology: 1. Protozoology	8.2	24.6	8.2	24.6	16.4	82	8.2
Total		127.2	136.1	95.7	281.6	127.9	760	76.0

##### Semester 2, year 1

Course code	Course Name	Lecture Hrs	Tutorial/ seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
PE 600.2	Parasitological and Medical Entomology: 2. Helminthology and Entomology	17	51	17	51	34	170	17.0



PE 601	Advanced Parasitology & Medical Entomology	16	48	16	48	32	160	16.0
PE 603	Disease Transmission dynamics and control	32	96	32	96	64	320	32.0
HE 600	Educational Principles and Practices for Health Sciences Professionals	10	30	10	30	20	100	10.0
Total		75	225	75	225	150	750	75.0

### Semester 3, year 2

Course code	Course Name	Lecture Hrs	Tutorial/seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
PE 604	Molecular biology & Immunoparasitology	19	57	19	57	38	190	19.0
MI 610	Microbiology & Immunology	7	21	7	21	14	70	7.0
PE 605	Field attachment	0	50	50	75	75	250	25.0
PE 699.1	Dissertation Module I: Proposal Development	0	46	46	69	69	230	23.0
Total		26	174	122	222	196	740	74.0

### Semester 4, year 2

Course code	Course Name	Lecture Hrs	Tutorial/seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
PE 600.2-4	Dissertation Module 2-4 Data collection; Data analysis; Dissertation submission, examination and dissemination	0	75	0	450	225	750	75.0
Total		0	75	0	450	225	750	75.0

#### 6.2.4.1.2 Examination Regulations for MSc PE Degree Programme

- General University Examination regulations on registration, registration for examinations, eligibility for examination, absence from examination, Board of Examiners, conduct of examinations, Examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in Chapter one.
- The Master Science in Parasitology and Entomology degree program is a 4-Semester Programme and the maximum tenure for the registration shall be 6 semesters.
- The maximum freezing period shall be 2 semesters.
- Registration of full-time students shall be once at the beginning of each semester.

- (v) There shall be at least two continuous assessment tests (CAT) and regular assessment of competencies for each module or modular course taught during each semester. The CAT and the regular assessment of competencies shall constitute the Formative Assessment (FA) and the final end of module/modular course examination the Summative Assessment (SA).
- (vi) FA shall contribute 50 % of the final grade in the end of module/modular course examinations.
- (vii) The FA and SA shall consist of written examinations and Practical Examinations (OSPE), Global (multisource) observation and rating, observation of procedures and rating by faculty, logbooks, portfolio, and others). The proportional contribution for written and practical/competencies assessment will be 60 and 40% respectively for Basic Sciences and 40% and 60% in practical courses.
- (viii) A candidate will be considered to have passed a course after passing all modules of the respective course.
- (ix) Decision-making of the failing students shall be determined at the end of the audit year.
- (x) A candidate who fails in one or more courses, but whose GPA is 2.4 or higher shall be allowed to do supplementary examination(s) in the failed modules/modular courses during the long vacation.
- (xi) No candidate shall be allowed to sit for supplementary in more than three failed courses at any given time irrespective of GPA and shall be discontinued from studies.
- (xii) A candidate who fails the first supplementary examination shall be allowed to sit for a second supplementary examination when next offered provided she/he has a GPA of 2.7 or more.
- (xiii) A candidate who fails the second supplementary examination in semesters 1 - 2 shall be discontinued from the studies, except in special circumstances, if recommended by the School Board and Senate Higher Degrees Committee and approved by the University Senate. A candidate who fails the second supplementary in semester 3 and 4 shall be allowed to supplement the failed course/courses provided the maximum tenure of 6 semesters is not exceeded
- (xiv) A candidate who fails in any number of the subjects and has a GPA of less than 2.4 shall be discontinued from the programme.
- (xv) A candidate who passed a supplementary examination at any level shall be awarded a "B" grade.
- (xvi) No candidate shall be allowed to repeat a semester except in very exceptional circumstances on the recommendation of the School Board and approved by the senate
- (xvii) A student shall be awarded the Master of Science Parasitology and Entomology degree after passing all courses and successful defence of a dissertation.
- (xviii) In addition to these regulations, the General Regulations and Guidelines of Postgraduate Study Programmes shall be binding.
- (xix) Notwithstanding these regulations, postgraduate students are governed by civil service regulations and shall have only one leave in a year during the long vacation.

#### 6.2.4.1.3 The Grading system

The examination marks shall be graded as shown below: -

Grade	A	B+	B	C	D
Percent	100-70	69-60	59-50	49-40	39-0
GP	5.0-4.4	4.3-3.5	3.4-2.7	2.6-2.0	1.9-0

#### 6.2.4.1.4 Regulations for the Dissertations for MSc (PE) Degree Programme

- (i) The dissertation will consist of one research topic that will be within the field of Parasitology and Entomology. This will be determined by the candidate and approved by the Department.
- (ii) Four loosely bound copies of the dissertation shall be submitted to the Dean of the School of Public Health and Social Sciences at least three months before the beginning of semester 4 final examinations. The candidate will be required to submit loosely bound copies of the dissertation not less than three months prior to the examination when next offered provided that the regulation on maximum tenure for MSc degrees allows.
- (iii) Oral defense of the dissertation shall be done during the end of semester 4 University examinations
- (iv) A candidate whose dissertation is considered unsatisfactory having passed all semester examinations will be required to re-submit the dissertation for examination within three months in the case of minor correction and within six months in the case of major corrections.
- (v) In case of outright rejection of a dissertation a candidate may submit another dissertation for examination after nine months provided the maximum tenure allows
- (vi) A dissertation rejected by examiners after re-submission shall not be accepted for reexamination at this University.
- (vii) For one to qualify for the award of MSc. in Parasitology and Entomology, he/she must pass all module examinations and submit an error-free dissertation.

#### 6.2.5 Master of Science in Applied Epidemiology (MSc Applied Epidemiology) Degree Programme

This is a four-semester programme whose overall aim is to train and produce graduates with relevant competencies and skills in applied epidemiology, which will enable them to contribute towards strengthening of the public health system of Tanzania.

##### 6.2.5.1 Entry requirements

- (i) Graduates from any recognized University in the fields of Medicine, Dentistry, Laboratory Sciences, Veterinary Sciences, Pharmacy, Environmental Health Sciences, Nursing or any other health related fields of study.
- (ii) Graduates in health-related fields of study such as statistics, demography, biology, food science and public health may also apply provided they are graduates from recognized Universities.
- (iii) Graduates must have passed and obtained at least a cumulative GPA of 2.7 at undergraduate level.

- (iv) Graduates should have a minimum of two years relevant working experience in health related programmes or institutions. Candidates working with government institutions will be given a priority.

#### 6.2.5.1.1 MSc Applied Epidemiology Degree Programme Courses

Code	Course Name	Lectures	Seminar/ Tutorials	Assignments	Independent Study	Practicals	Total Hours	Credits
<b>SEMESTER 1: 75.0 CREDITS</b>								
AE601	Principles of Epidemiology and Biostatistics	20	28	10	40	30	128	12.8
AE602	Public Health Surveillance	20	35	15	70	326	466	46.6
AE603	Research Methodology and Documentation	10	20	10	46	10	96	9.6
EE600	Bioethics	6	18	6	18	12	60	6
<b>SEMESTER 2: 75.0 CREDITS</b>								
AE604	Advanced Epidemiology	40	18	10	60	334	462	46.2
HE600	<b>Educational Principles and Practices for Health Sciences Professionals</b>	68	5	10	15	2	100	10
AE699	Dissertation	0	15	0	173	0	188	18.8
<b>SEMESTER 3: 75.0 CREDITS</b>								
AE605	Economic Analysis and Evaluation	40	18	10	60	202	330	33
AE699	Dissertation	0	0	0	0	420	420	42
<b>SEMESTER 4: 75.0 CREDITS</b>								
AE606	Leadership and Management	40	18	10	70	394	532	53.2
AE699	Dissertation	0	15	0	203	0	218	21.8

#### 6.2.5.1.2 Examination Regulations for the MSc Applied Epidemiology Degree Programme

- (i) General University Examination regulations on registration for examination, professional conduct, eligibility for examination, absence from examination, Board of Examiners, conduct of examinations, Examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in Chapter one.
- (ii) The MSc Applied Epidemiology Programme is a 4-semester programme and the maximum tenure for the MSc degree shall be 6 semesters.

- (iii) Registration for full time students shall be once at the beginning of each semester.
- (iv) There shall be at least two Continuous Assessment Tests (CAT) for each module taught and regular assessment of competencies, which will constitute the Formative Assessment (FA).
- (v) The FA shall contribute 50% of the final grade in the end of module Summative Assessment (SA). Assessment shall be conducted using appropriate tools.
- (vi) The FA and SA shall consist of written, practical and oral components whose proportional contribution will be 40%, 50% and 10%, respectively, assessed as in (v) above.
- (vii) To pass a module, modular course or rotation a candidate has to attain a B grade or higher.
- (viii) Decision-making on failing students shall be determined at the end of the audit year.
- (ix) A candidate who fails one or more courses shall be required to sit for supplementary examination in the failed modules provided that she/he attains an overall GPA of 2.4 or higher.
- (x) Any candidate who failed any number of modules in subjects and has a GPA of less than 2.4 shall be discontinued from the studies.
- (xi) Any candidate who has failed modules in three courses will be discontinued from the programme.
- (xii) A candidate who fails the first supplementary examination shall be allowed to sit for a second supplementary examination when next offered, provided he/she attains a GPA of 2.7 or more
- (xiii) A candidate who passes a supplementary examination at any level shall be awarded a B grade
- (xiv) A candidate who fails the second supplementary examination in semesters 1 - 2 shall be discontinued from the studies, except in special circumstances, if recommended by the School Board and Senate Higher Degrees Committee and approved by the University Senate. A candidate who fails the second supplementary in semester 3 and 4 shall be allowed to supplement the failed course/courses provided the maximum tenure of 6 semesters is not exceeded.
- (xv) A candidate shall be awarded the degree of MSc Applied Epidemiology degree after passing all examinations in the prescribed courses in the MSc programme and submitting an error free dissertation
- (xvi) In addition to these regulations, the General Regulations and Guidelines of Postgraduate Study Programmes shall be binding.
- (xvii) Notwithstanding these regulations, postgraduate students are governed by civil service regulations and shall have only one leave in a year during the long vacation.

#### 6.2.5.1.3 The Grading system

The examination marks shall be graded as shown below: -

Grade	A	B+	B	C	D
Percent	100-70	69-60	59-50	49-40	39-0
GP	5.0-4.4	4.3-3.5	3.4-2.7	2.6-2.0	1.9-0

#### **6.2.5.1.4 Dissertation regulations for the MSc Applied Epidemiology Degree Programme**

- (i) The dissertation shall consist of one research topic.
- (ii) Four loosely bound copies of the dissertation shall be submitted to the Dean of the School of Public Health and Social Sciences at least THREE MONTHS before the beginning of semester 4 University examinations. A candidate who does not submit a dissertation at this period shall be barred from sitting for the final examinations. The candidate will be required to submit loosely bound copies of the dissertation not less than three months prior to the examination when next offered provided that maximum tenure for MSc degrees is not exceeded.
- (iii) Oral defense of the dissertation shall be done during the end of semester 4 University examinations.
- (iv) A candidate, having passed all semester examinations, will be required to re-submit error-free dissertation within 3 months in the case of minor corrections and within 6 months if there are major corrections.
- (v) A dissertation re-submitted after major corrections shall be re-examined by both internal and external examiners
- (vi) In case of outright rejection of a dissertation a candidate may submit another dissertation for examination after 9 months provided the maximum tenure allows.
- (vii) Dissertation rejected by examiners after re-submission shall not be accepted for re-examination at this University.
- (viii) A candidate shall be awarded the MSc Applied Epidemiology degree after passing all examinations in the prescribed modules or modular courses in the MSc Programme and submitting an error free dissertation.

#### **6.2.6 Master of Science in Epidemiology and Laboratory Management (MSc Epid and Lab Management) Degree Programme**

This is a four-semester programme whose overall aim is to train and produce graduates with relevant competencies and skills in applied epidemiology and laboratory management, which will enable them to contribute towards strengthening of the public health system of Tanzania.

##### **6.2.6.1 Entry requirements**

- (i) Graduates from any recognized University with a first degree in the fields of Laboratory Sciences, Medical Sciences, Veterinary Sciences, Biological sciences or any other laboratory related fields of study.
- (ii) Graduates must have passed and obtained at least a cumulative GPA of 2.7 at undergraduate level.
- (iii) Graduates should have a minimum of two years relevant working experience in health related programmes or institutions.

### 6.2.6.1.1 MSc Epidemiology and Laboratory Management Degree Programme courses

Code	Course Name	Lectures	Seminar/ Tutorials	Assignments	Independent Study	Practicals	Total Hours	Credits
<b>SEMESTER 1: 75.0 CREDITS</b>								
AE601	Principles of Epidemiology and Biostatistics	20	28	10	40	30	128	12.8
AE602	Public Health Surveillance	20	35	15	70	326	466	46.6
AE603	Research Methodology and Documentation	10	20	10	46	10	96	9.6
EE600	Bioethics	6	18	6	18	12	60	6
<b>SEMESTER 2: 75.0 CREDITS</b>								
LM601	Fundamental Laboratory Methods	40	18	10	60	334	462	46.2
HE600	<b>Educational Principles and Practices for Health Sciences Professionals</b>	68	5	10	15	2	100	10
LM699	Dissertation	0	15	0	173	0	188	18.8
<b>SEMESTER 3: 75.0 CREDITS</b>								
LM602	Laboratory Management, Policy and Systems Design	40	18	10	60	202	330	33
LM699	Dissertation	0	0	0	0	420	420	42
<b>SEMESTER 4: 75.0 CREDITS</b>								
AE606	Leadership and Management	40	18	10	70	394	532	53.2
LM699	Dissertation	0	15	0	203	0	218	21.8

### 6.2.6.1.2 Examination Regulations for the MSc Epidemiology and Laboratory Management Degree Programme

- (i) General University Examination regulations on registration, registration for examinations, professional conduct, eligibility for examination, absence from examination, Board of Examiners, conduct of examinations, Examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in Chapter one.
- (ii) The MSc Programme is a 4-semester programme and the maximum tenure for the MSc degree shall be 6 semesters.
- (iii) Registration for full time students shall be once at the beginning of each semester.

- (iv) All modules offered during a semester shall be examined at the end of the modules.
- (v) External examiners or moderators shall be invited at the end of semester or audit year.
- (vi) There shall be at least two Continuous Assessment Tests (CAT) for each module taught and regular assessment of competencies, which will constitute the Formative Assessment (FA). Assessment shall be carried out using appropriate tools.
- (vii) The FA shall contribute 50% of the final grade in the end of module/course/rotation Summative Assessment (SA).
- (viii) The FA and SA shall consist of written, practical and oral components whose proportional contribution will be 40%, 50% and 10%, respectively assessed as in (v) above.
- (ix) To pass a module, modular course or rotation a candidate has to attain a B grade or higher.
- (x) Decision-making on failing students shall be determined at the end of the audit year.
- (xi) A candidate who fails one or more courses shall be required to sit for supplementary examination in the failed modules provided that she/he attains an overall GPA of 2.4 or higher.
- (xii) Any candidate who failed any number of modules in subjects and has a GPA of less than 2.4 shall be discontinued from the studies.
- (xiii) Any candidate who has failed modules in three courses will be discontinued from the programme.
- (xiv) A candidate who fails the first supplementary examination shall be allowed to sit for a second supplementary examination when next offered, provided he/she attains a GPA of 2.7 or more
- (xv) A candidate who passes a supplementary examination at any level shall be awarded a B grade
- (xvi) A candidate who fails the second supplementary examination in semesters 1 - 2 shall be discontinued from the studies, except in special circumstances, if recommended by the SPHSS Board and Senate Higher Degrees Committee and approved by the University Senate. A candidate who fails the second supplementary in semester 3 and 4 shall be allowed to supplement the failed course/courses provided the maximum tenure of 6 semesters is not exceeded.
- (xvii) A candidate shall be awarded the degree of MSc Epidemiology and Laboratory management degree after passing all examinations in the prescribed courses in the programme and submitting an error free dissertation.
- (xviii) In addition to these Regulations the General Regulations and Guidelines for postgraduate studies shall be binding.
- (xix) Notwithstanding these regulations, postgraduate students are governed by civil service regulations and shall have only one leave in a year during the long vacation.



#### **6.2.6.1.4 The Grading system.**

The examination marks shall be graded as shown below: -

<b>Letter Grade</b>	<b>A</b>	<b>B+</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>% Score</b>	100-70	69-60	59-50	49-40	39-0
<b>GP Range</b>	5.0-4.4	4.3-3.5	3.4-2.7	2.6-2.0	1.9-0

#### **6.2.6.1.3 Dissertation regulations for MSc Epidemiology and Laboratory management Degree Programme**

- (i) The dissertation shall consist of one research topic.
- (ii) Four loosely bound copies of the dissertation shall be submitted to the Dean of the School of Public Health and Social Sciences at least THREE MONTHS before the beginning of semester 4 University examinations. A candidate who does not submit a dissertation at this period shall be barred from sitting for that final examination. The candidate will be required to submit loosely bound copies of the dissertation not less than three months prior to the examination when next offered provided that regulation 9.2.1 on maximum tenure for MSc degrees allows.
- (iii) Oral defense of the dissertation shall be done during the end of semester 4 University examinations.
- (iv) A candidate, having passed all semester examinations, will be required to re-submit error-free dissertation within 3 months in the case of minor corrections and within 6 months if there are major corrections.
- (v) A dissertation re-submitted after major corrections shall be re-examined by both internal and external examiners.
- (vi) In case of outright rejection of a dissertation a candidate may submit another dissertation for examination after 9 months provided the maximum tenure allows.
- (vii) Dissertation rejected by examiners after re-submission shall not be accepted for re-examination at this University.
- (viii) A candidate shall be awarded the MSc Epid and Lab Management degree after passing all examinations in the prescribed courses in the MSc Programme and submitting an error free dissertation.

#### **6.2.7 Master of Public Health (MPH) Regular Track Degree Programme**

The Master of Public Health aims at training MPH candidates to become public health specialists. The graduate will be a professional in public health matters in the Government, non-governmental as well as national and international organizations. To this end, the trainee will acquire knowledge and skills for managing public health programmes; planning, implementing, monitoring and evaluating public health programmes or interventions and design and conduct public health research

##### **6.2.7.1 Entry requirements**

- (i) Doctors, Dentists, Pharmacists, Environmental Health Scientist or graduate Nurses from this University or any other recognized University.

- (ii) Any other graduates of this University or any other recognized University in health related fields such as sociology, anthropology, health statistics, demography, biology, food sciences, veterinary sciences, epidemiology and health information science and Law.
- (iii) Graduates must have passed and obtained at least a cumulative GPA of 2.7 at undergraduate level.
- (iv) Candidates will be required to have at least three years working experience in a health related or health care delivery or health intervention work. All candidates should have experience in health management or health related research before joining the course. Candidates who have worked with communities in health related activities at district level will be given a priority.

#### 6.2.7.1.1 MPH Degree Programme courses

##### Semester 1, year 1

Course Code	Course Name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent study (Hrs)	Practicals (Hrs)	Total Hrs	Credits
FP 600	Principles of public health and one health	11	14	7.5	30	7.5	70	7.0
FP 601	Principles of epidemiology	16	11	14	24	20	85	8.5
FP 602	biostatistics	15	14	10.5	31	14.5	85	8.5
FP 603	Health management, planning and policy	18	24.5	12.5	48.5	18	122	12.2
FP 604	Introduction to environmental and occupational health	12	15	7	28	10	72	7.2
FP 606	Research methods	19	7	22.5	42	23.5	114	11.4
FP 607	Implementing behavior change	10	14	7	28	11	70	7.0
PQ 600	Special public health issues	54	0	56	50	2	162	16.2
PQ 699	Dissertation	30	15	2	63	10	120	12.0

##### Semester 2 year 1

Course Code	Core or elective	Lecture Hrs	Tutorial/ Seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
PQ 602	Health economics, financing and evaluation	25	31	18.5	25	24.5	124	12.4
PQ 699	Dissertation	10	64	2	500	200	776	77.6

#### 6.2.7.1.2 Examination regulations for the MPH Degree Programme

- (i) General University Examination regulations on registration, registration for examination, professional conduct, eligibility for examination, absence from examinations, Board of Examiners, conduct of examinations,

Examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in Chapter 1.

- (i) The MPH Programme is a two semester made up of modular courses and the maximum tenure for the MPH programme shall be four semesters.
- (ii) Registration of full time students shall be once at the beginning of each semester.
- (iii) The MPH Degree Programme examinations shall be based on the modular courses only. Each module/course is independent of all other modular courses.
- (iv) There shall be at least two Continuous Assessment Tests (CAT) and regular assessment of competencies, which shall constitute the Formative Assessment (FA) for each modular course. The end of module examination shall constitute the Summative Assessment (SA).
- (v) The FA shall constitute 60% of the total score while the end of module examination shall constitute 40%. Assessment will be carried out using appropriate tools.
- (vi) A candidate who fails a supplementary examination shall be discontinued from the programme.
- (vii) A candidate shall not be allowed to repeat the programme.
- (viii) In addition to these Regulations the General Regulations and Guidelines for postgraduate studies shall be binding.
- (ix) Notwithstanding these regulations, postgraduate students are governed by civil service regulations and shall have only one leave in a year during the long vacation.

#### **6.3.7.1.3 Dissertation regulations**

- (i) The dissertation shall consist of one research topic.
- (ii) Four loosely bound copies of the dissertation shall be submitted to the Dean of the School of Public Health and Social Sciences at least three weeks before the defense of the dissertation in the second semester. A candidate who does not submit a dissertation at this period will be barred from sitting for that examination.
- (iii) Oral defense of the dissertation shall be done during the end of semester 2.
- (iv) A candidate, having passed all modular examinations, will be required to resubmit error-free dissertation within 1 month in the case of minor corrections and within 2 months if there are major corrections.
- (v) In case of outright rejection of a dissertation a candidate may submit another dissertation for examination within 6 months provided the maximum tenure allows.
- (vi) Dissertation rejected by examiners after re-submission shall not be accepted for re-examination at this University.
- (vii) A candidate resubmitting the dissertation after major corrections (including re-organization) or after outright rejection, if examiners once again recommend major corrections or outright rejection, the candidate shall be discontinued.
- (viii) A candidate shall be awarded the MPH degree after passing all examinations in the prescribed courses in the MPH Program and submitting an error free dissertation.

#### 6.2.7.1.4 The Grading system

The examination marks shall be graded as shown below: -

Grade	A	B+	B	C	D
Percent	100-70	69-60	59-50	49-40	39-0
GP range	5.0-4.4	4.3-3.5	3.4-2.7	2.6-2.0	1.9-0

#### 6.2.8 Master of Public Health (MPH) Executive Track Degree Programme

The Master of Public Health Executive Track is equivalent to the current regular MPH programme. Like the regular programme, this track aims at training MPH candidates to become public health specialists. The graduate will be a professional in public health matters in the Government, non-governmental as well as national and international organizations. To this end, the trainee will acquire knowledge and skills for managing public health programmes; planning, implementing, monitoring and evaluating public health programmes or interventions and design and conduct public health research. Therefore, it is not a dilute version of the regular programme.

The Executive Track is composed of ten (10) courses. It is completely modularized such that almost all modules are independent of each other. The programme will be conducted every working day from 5 p.m. to 9 p.m. Successful applicants for the MPH degree will be required to register for both the degree (MPH) and for each module. Applicants wishing to pursue a single module alone will be required to register for that module only.

The first academic year will consist of seven (7) modular courses and the second academic year will consist of three (3) modules. The dissertation (PQ 699) module is to be undertaken by students registered for MPH degree only.

##### 6.2.8.1 Eligibility for Admission

The following shall be eligible for registration to join the Master of Public Health (Executive Track) Programme:

- Graduates from MUHAS or any other recognized University in all health related fields of study that include but not limited to Sociology, anthropology, health statistics, environmental health sciences, demography, biology, food science, epidemiology health information sciences and Law.
- Graduates must have passed and obtained at least a cumulative GPA of 2.7 at undergraduate level.

##### 6.2.8.1.1 MPH Programme Executive Track Degree Programme course

###### Semester 1, year 1

Course Code	Course Name	Lecture Hrs	Tutorial/ Seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
FP 600	Principles of	3.5	7	21	35	3.5	70	7.0

	public health and one health							
<b>FP 601</b>	Principles of epidemiology	4.25	8.5	25.5	42.5	4.25	85	8.5
<b>FP 602</b>	biostatistics	4.25	8.5	25.5	42.5	4.25	85	8.5

### Semester 2, year 1

Course Code	Course Name	Lecture Hrs	Tutorial/Seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
<b>FP 603</b>	Health management, planning and policy	6.1	12.2	36.6	61	6.1	122	12.2
<b>FP 604</b>	Introduction to environmental and occupational health	3.6	7.2	21.6	35	3.6	72	7.2
<b>FP 606</b>	Research methods	5.7	11.4	34.2	57	5.7	114	11.4
<b>FP 607</b>	Implementing behavior change	3.5	7	21	35	3.5	70	7.0

### Semester 3, year 2

Course Code	Course Name	Lecture Hrs	Tutorial/Seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
<b>PQ 600</b>	Special public health issues	8.1	16.2	48.6	81	8.1	162	16.2
<b>PQ 602</b>	Health economics, financing and evaluation	6.2	12.4	37.2	62	6.2	124	12.4
<b>PQ 699</b>	Dissertation	6	12	36	60	6	120	12.0

### Semester 4 year 2

Course Code	Core or elective	Lecture Hrs	Tutorial/Seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
<b>PQ 699</b>	Dissertation	38.8	77.2	2	500	200	776	77.6

#### 6.2.8.1.2 Examination Regulations for MPH Executive Track

- (i) General University Examination regulations on registration, registration for examinations, professional conduct, eligibility for examination, absence from examination, Board of Examiners, conduct of examinations,

Examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in Chapter one.

- (ii) The MPH (Executive Track) is a four-semester program and the maximum tenure for the degree shall be six semesters.
- (iii) The maximum freezing period shall be 2 semesters.
- (iv) Registration of full time students shall be once at the beginning of each semester.
- (v) Candidates may choose to pursue an MPH degree or undergo training in selected module(s).
- (vi) All candidates will have to register for each module at least three weeks prior to beginning the module. Such registration shall be conducted at the Dean's Office, School of Public Health and Social Sciences.
- (vii) There shall be at least two continuous assessments (CA) and regular assessment of competencies for each module/modular course taught during each module. The CA and the regular assessment of competencies shall constitute the Formative Assessment (FA) and the final end of module/modular course or rotation examination the Summative Assessment (SA).
- (viii) The FA shall contribute 60% of the final grade in the end of module/modular course/rotation university examinations.
- (ix) The FA and SA shall consist of written (MCQs, short and long essays), oral examination, graded field reports, rated assignments, rated practicals, observation and rating by faculty, multisource rating, direct observation of procedures and rating, self-assessment and peer assessment.
- (x) A candidate who fails any number of modules and has a GPA of less than 2.4 shall be discontinued from the program
- (xi) A candidate shall be considered to have passed end of module examination, if they score at least a B-grade.
- (xii) A candidate who fails end of module examination, shall sit for a supplementary examination at the end of the course
- (xiii) A candidate who fails the first supplementary examination shall be allowed to sit for a second supplementary examination when next offered provided she/he has a GPA of 2.7 or more.
- (xiv) A candidate who fails the second supplementary examination shall be discontinued from studies, except in special circumstances, if recommended by the SPHSS Board and approved by the University Senate.
- (xv) A candidate who passes a supplementary examination at any level shall be awarded a "B" grade.
- (xvi) A student shall be awarded the MPH degree after passing all modules and successful defense of a dissertation.
- (xvii) The general Regulations and Guidelines of Postgraduate Study Programmes shall be binding.
- (xviii) Notwithstanding these regulations, postgraduate students are governed by civil service regulations and shall have only one leave in a year during the long vacation.

#### **6.2.8.1.4 Regulations for Dissertation**

- (i) A supervisor(s) will be assigned to guide the student towards a successful completion of dissertation research work.

- (ii) Four loosely bound copies of the dissertation shall be submitted to the Dean, School of Public Health and Social Sciences at least TWO MONTHS before end of the last semester.
- (iii) Oral defense of the dissertation shall be conducted during the end of the program
- (iv) A candidate shall be required to re-submit error-free dissertation within 3 months in the case of minor corrections and within 6 months if there are major corrections. The candidate shall be required to meet the extra costs in case these corrections extend beyond the maximum duration of the module.
- (v) A dissertation re-submitted after major corrections shall be re-examined by both internal and external examiners.
- (vi) A dissertation rejected by examiners after re-submission shall not be accepted for re-examination at the Muhimbili University of Health and Allied Sciences.
- (vii) General University Examination regulations on registration for examination, eligibility for examination, absence from examination, Board of Examiners, conduct of examinations, Examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in the General Regulations and Guidelines for Postgraduate Study Programmes.

#### 6.2.8.1.3 The Grading system

The examination marks shall be graded as shown below: -

Grade	A	B+	B	C	D
Percent	100-70	69-60	59-50	49-40	39-0
GP Range	5.0-4.4	4.3-3.5	3.4-2.7	2.6-2.0	1.9-0

Where;

A = Excellent; B+ = Very Good; B = Good; C = Marginal Failure, and D = Failure.

#### 6.2.9 Master of Public Health (MPH) Distance Learning Degree Programme

The Master of Public Health Distance Learning is equivalent to the current regular and Executive Track MPH programmes. Like the regular programme, this track aims at training MPH candidates to become public health specialists. The graduate will be a professional in public health matters in the Government, non-governmental as well as national and international organizations. To this end, the trainee will acquire knowledge and skills for managing public health programmes; planning, implementing, monitoring and evaluating public health programmes or interventions and design and conduct public health research. Therefore, it is not a dilute version of the MPH programmes.

The Distance Learning MPH programme is composed of ten (10) courses. It is completely modularized such that almost all modules are independent of each other. Lectures are conducted through distance learning systems using well established e-Learning management System of Open University of Tanzania (OUT) and School of Public Health and Social Sciences at MUHAS. Successful applicants for the MPH

degree will be required to register for both the degree (MPH) and for each module. Applicants wishing to pursue a single module alone will be required to register for that module only.

The first academic year will consist of seven (7) modular courses and the second academic year will consist of three (3) modules. The dissertation (PQ 699) module is to be undertaken by students registered for MPH degree only.

### 6.2.9.1 Eligibility for Admission

The following shall be eligible for registration to join the Master of Public Health (Distance learning) Programme:

- (i) Graduates from MUHAS or any other recognized University in all health related fields of study that include but not limited to Sociology, anthropology, health statistics, environmental health sciences, demography, biology, food science, epidemiology health information sciences and Law.
- (ii) Graduates must have passed and obtained at least a cumulative GPA of 2.7 at undergraduate level.

#### 6.2.9.1.1 MPH Distance Learning Degree Programme course

##### Semester 1, year 1

Course Code	Course Name	Lecture Hrs	Tutorial/ Seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
FP 600	Principles of public health and one health	3.5	7	21	35	3.5	70	7.0
FP 601	Principles of epidemiology	4.25	8.5	25.5	42.5	4.25	85	8.5
FP 602	biostatistics	4.25	8.5	25.5	42.5	4.25	85	8.5

##### Semester 2, year 1

Course Code	Course Name	Lecture Hrs	Tutorial/ Seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
FP 603	Health management, planning and policy	6.1	12.2	36.6	61	6.1	122	12.2
FP 604	Introduction to environmental and occupational health	3.6	7.2	21.6	35	3.6	72	7.2
FP 606	Research methods	5.7	11.4	34.2	57	5.7	114	11.4
FP 607	Implementing behavior change	3.5	7	21	35	3.5	70	7.0



### Semester 3, year 2

Course Code	Course Name	Lecture Hrs	Tutorial/Seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
PQ 600	Special public health issues	8.1	16.2	48.6	81	8.1	162	16.2
PQ 602	Health economics, financing and evaluation	6.2	12.4	37.2	62	6.2	124	12.4
PQ 699	Dissertation	6	12	36	60	6	120	12.0

### Semester 4 year 2

Course Code	Course Name	Lecture Hrs	Tutorial/Seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
PQ 699	Dissertation	38.8	77.2	2	500	200	776	77.6

#### 6.2.9.1.2 Examination Regulations for MPH Distance Learning

- (i) General University Examination regulations on registration, registration for examinations, professional conduct, eligibility for examination, absence from examination, Board of Examiners, conduct of examinations, Examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in Chapter one.
- (ii) The MPH (Distance Learning) is a four-semester program and the maximum tenure for the degree shall be six semesters.
- (iii) The maximum freezing period shall be 2 semesters.
- (iv) Registration of full time students shall be once at the beginning of each semester.
- (v) Candidates may choose to pursue an MPH degree or undergo training in selected module(s).
- (vi) All candidates will have to register for each module at least three weeks prior to beginning the module. Such registration shall be conducted at the Dean's Office, School of Public Health and Social Sciences.
- (vii) There shall be at least one continuous assessment (CA) and regular assessment of competencies for each module/modular course taught during each module. Only one continuous assessment of competencies shall constitute the Formative Assessment (FA) and the final end of module/modular course examination shall constitute the Summative Assessment (SA).
- (viii) The FA shall contribute 60% of the final grade in the end of module/modular course university examinations.
- (ix) The FA and CA shall consist of written (MCQs, short and long essays), oral examination, graded field reports, rated assignments, rated practicals,

observation and rating by faculty, multisource rating, direct observation of procedures and rating, self-assessment and peer assessment.

- (x) A candidate who fails any number of modules and has a GPA of less than 2.4 shall be discontinued from the program
- (xi) A candidate shall be considered to have passed end of module examination, if they score at least a B-grade.
- (xii) A candidate who fails end of module examination, shall sit for a supplementary examination at the end of the course
- (xiii) A candidate who fails the first supplementary examination shall be allowed to sit for a second supplementary examination when next offered provided she/he has a cumulative GPA of 2.7 or more.
- (xiv) A candidate who fails the second supplementary examination shall be discontinued from studies, except in special circumstances, if recommended by the SPHSS Board and approved by the University Senate.
- (xv) A candidate who passes a supplementary examination at any level shall be awarded a “B” grade.
- (xvi) A student shall be awarded the MPH degree after passing all modules and successful defense of a dissertation.
- (xvii) The general Regulations and Guidelines of Postgraduate Study Programmes shall be binding.
- (xviii) Notwithstanding these regulations, postgraduate students are governed by civil service regulations and shall have only one leave in a year during the long vacation.

#### **6.2.9.1.4 Regulations for Dissertation**

- (viii) A supervisor(s) will be assigned to guide the student towards a successful completion of dissertation research work.
- (ix) Four loosely bound copies of the dissertation shall be submitted to the Dean, School of Public Health and Social Sciences at least TWO MONTHS before end of the last semester.
- (x) Oral defense of the dissertation shall be conducted during the end of the program
- (xi) A candidate shall be required to re-submit error-free dissertation within 3 months in the case of minor corrections and within 6 months if there are major corrections. The candidate shall be required to meet the extra costs in case these corrections extend beyond the maximum duration of the module.
- (xii) A dissertation re-submitted after major corrections shall be re-examined by both internal and external examiners.
- (xiii) A dissertation rejected by examiners after re-submission shall not be accepted for re-examination at the Muhimbili University of Health and Allied Sciences.
- (xiv) General University Examination regulations on registration for examination, eligibility for examination, absence from examination, Board of Examiners, conduct of examinations, Examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in the General Regulations and Guidelines for Postgraduate Study Programmes.

### 6.2.9.1.3 The Grading system

The examination marks shall be graded as shown below: -

Grade	A	B+	B	C	D
Percent	100-70	69-60	59-50	49-40	39-0
GP Range	5.0-4.4	4.3-3.5	3.4-2.7	2.6-2.0	1.9-0

### 6.2.10 Master of Science in Behavior Change Communication (MSc BCC) Degree Programme

Behaviour Change Communication (BCC) is health communication that is behaviorally focused as well as environmentally contextualized. It seeks to empower people to change the behaviour that puts their health in jeopardy, by effecting social change, which in turn makes it possible for behaviour change to take place. It proceeds from a correct understanding of obstacles to behavior change through formative research, and proceeds to modify them through appropriate communication interventions. This makes it easier for individuals and communities to make and to sustain behaviour change for the enhancement of their health. BCC avoids blaming the people for not changing their behaviour by making it unethical to persuade people without removing the barriers, which prevent them from changing their behaviour.

#### 6.2.10.1 Eligibility of admission

The following shall be eligible to enroll for the degree:

- (i) Graduates from this University in Environmental Health, Nursing, Medicine, Dentistry and Pharmacy.
- (ii) Graduates from other recognized Universities in Environmental Health, Nursing, Medicine, Dentistry, Pharmacy, Law, Education, Economics, Sociology, Food Science and Technology and Political Science.
- (iii) Graduates must have passed and obtained at least a cumulative GPA of 2.7 at undergraduate level.
- (iv) Graduates shall have a minimum of two years working experience.

#### 6.2.10.1.1 MSc BCC Programme Degree Programme Courses

##### Semester 1 - Year 1:

Course code	Course name	Core/ optional	Lecture Hrs	Seminar /Tutorial Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hours	Credits
FP 600	Principles of public health and one health	Core	3.5	7	21	35	3.5	70	7
FP 601	Principles of epidemiology	Core	3.5	7	21	35	3.5	70	7

FP 602	biostatistics	Core	4.5	0	26	50	4.5	85	8.5
FP 603	Health management, planning and policy	Core	4	5.5	26	44	5.5	85	8.5
FP 604	Introduction to environmental and occupational health	Core	6	12	37	61	6	122	12.2
FP 605	Strategic Planning of Behaviour Change Interventions	Core	3.5	7	21.9	36	3.6	72	7.2
FP 606	Research methods	Core	0	0	35	62	17	114	11.4
FP 607	Implementing behavior change	Core	4	7	21	34	4	70	7
EE 600	Bioethics.	Core	10	15	10	25	0	60	6
BS 699	Dissertation	Core	0	0	0	72	0	72	7.2
<b>Total</b>			<b>35.5</b>	<b>53.5</b>	<b>197.9</b>	<b>419.0</b>	<b>44.1</b>	<b>750.0</b>	<b>75</b>

### Semester 2 - Year 1:

Course code	Course name	Core/ optional	Lecture Hrs	Seminar /Tutorial Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hours	Credits
BS 600	Fundamentals of Behavior Change Communication	Core	175	360	15	50	50	650	65
HE 600	Educational Principles and Practices for the Health Sciences Professionals.	Core	65	10	10	10	5	100	10
<b>Total</b>			<b>240</b>	<b>375</b>	<b>25</b>	<b>60</b>	<b>55</b>	<b>755</b>	<b>75</b>

### Semester 1 - Year 2:

Course code	Course name	Core/ optional	Lecture Hrs	Seminar /Tutorial Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hours	Credits
BS 601	Behavior Change Communication Practices	Core	40	60	10	210	430	750	75
<b>Total</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>250</b>	<b>500</b>	<b>750</b>	<b>75</b>

## Semester 2 - Year 2:

Course code	Course name	Core/ optional	Lecture Hrs	Seminar /Tutorial Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hours	Credits
BS 699	Dissertation	Core	0	0	0	450	300	750	75
<b>Total</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>450</b>	<b>300</b>	<b>750</b>	<b>75</b>

### 6.2.10.1.2 Examination Regulations for MSc BCC Degree Programme

- (i) General university Examination regulations on registration for examination, professional conduct, eligibility for examination, absence from examination, Board of Examiners, conduct of examinations, Examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in Chapter one.
- (ii) The MSc BCC programme is a 4-semester programme and the maximum tenure for the degree shall be 6 semesters.
- (iii) The maximum freezing period shall be 2 semesters.
- (iv) Registration of students shall be once at the beginning of each semester.
- (v) There shall be at least two Continuous Assessment Tests (CAT) and Regular Assessment of competencies for each module/modular course taught during each semester. The CAT and the regular assessment of competencies shall constitute the Formative Assessment (FA) and the final end of module/modular course or rotation examination the Summative Assessment (SA). Assessment shall be conducted using appropriate tools for each competency domain.
- (vi) The FA shall contribute 60% of the final grade in the end of module/modular course/rotation university examinations.
- (vii) The FA and SA shall consist of written (MCQs, short and long essays) papers, oral examination, graded field reports, rated assignments, rated Practicals, multisource rating, observation of procedures and rating, self-assessment and peer assessment, assessed as in (v) above.
- (viii) A candidate will be considered to have passed the programme/course after passing all modules.
- (ix) Decision-making of the failing students shall be determined at the end of the audit year.
- (x) No candidate shall be allowed to sit for supplementary in more than three failed courses at any given time irrespective of GPA and shall be discontinued from the programme.
- (xi) A candidate who fails in one or more modules, but whose GPA is 2.4 or higher shall be allowed to do supplementary examination(s) in the failed modules during the long vacation.
- (xii) A candidate who fails any number of modules and has a GPA of less than 2.4 shall be discontinued from the program
- (xiii) A candidate who fails the first supplementary examination shall be allowed to sit for a second supplementary examination when next offered provided she/he has a GPA of 2.7 or more.
- (xiv) A candidate who fails the second supplementary examination in semesters 1 - 2 shall be discontinued from the studies, except in special circumstances, if recommended by the School Board and Senate Higher Degrees Committee and approved by the University Senate. A candidate

who fails the second supplementary in semester 3 and 4 shall be allowed to supplement the failed course/courses provided the maximum tenure of 6 semesters is not exceeded.

- (xv) A candidate who passes a supplementary examination at any level shall be awarded a “B” grade.
- (xvi) No candidate will be allowed to repeat a semester except in very exceptional circumstances, on the recommendation of the SPHSS Board and approved by the University Senate.
- (xvii) A student shall be awarded the MSc BCC degree after passing all modules in the courses and successful defense of a dissertation.
- (xviii) In addition to these regulations, the general Regulations and Guidelines for Postgraduate Study Programmes shall be binding.
- (xix) Notwithstanding these regulations, postgraduate students are governed by civil service regulations and shall have only one leave in a year during the long vacation.

#### **6.2.10.1.3 Grading System**

The examination marks shall be graded as shown below:

<b>Grade</b>	<b>A</b>	<b>B+</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>Percent</b>	70-100	60-69	50-59	40-49	0-39
<b>GP Range</b>	4.4-5.0	3.5-4.3	2.7-3.4	2.0-2.6	0-1.9

#### **6.2.10.1.4 Regulations on dissertation**

- (i) The dissertation shall consist of one research topic.
- (ii) Four loosely bound copies of the dissertation shall be submitted to the Dean of the School of Public Health and Social Sciences not less than three months before dissertation defense.
- (iii) The candidate will be required to submit loosely bound copies of the dissertation not less than three months prior to the examination when next offered provided that the regulation on maximum tenure for MSc BCC degrees allows.
- (iv) Oral defense of the dissertation shall be conducted during the end of the last module. A candidate, having successfully defended the dissertation, will be required to submit error-free dissertation within 3 months in the case of minor corrections and within 6 months if there are major corrections.
- (v) In case of outright rejection a dissertation may be re-submitted for examination after 9 months.
- (vi) Dissertation rejected by examiners after re-submission shall not be accepted for re-examination at this University.
- (vii) A candidate shall be awarded the MSc BCC degree after passing all examinations in the prescribed courses in the Program and submitting an error free dissertation.
- (viii) Candidates who, for valid reasons, fail to complete their dissertation within the specified period may apply for an extension of registration period. The maximum duration of the registration period (including extension) should not exceed four years.

### 6.2.11 Master of Science in Behaviour Change (MSc BC) Degree Programme.

The aim of this program is to produce behavior change agents who have the tools, skills, and in-depth knowledge needed to manage the entire process of behavioral change intervention from conceptualization, design, implementation, management, and evaluation.

The general goal of this program is to empower students with the necessary competences to enable them become:

- (i) Public Health specialists, who will facilitate behavioral change for health
- (ii) Health researcher who can investigate the determinants of health within an ecological perspective.

#### 6.2.11.1 Eligibility of admission

The following shall be eligible to enroll for the degree:

- (a) Graduates from this University in Environmental Health, Nursing, Medicine, Dentistry and Pharmacy.
- (b) Graduates from other recognized Universities in Environmental Health, Nursing, Medicine, Dentistry, Pharmacy, Law, Education, Economics, Sociology, Food Science and Technology and Political Science.
- (c) Graduates must have passed and obtained at least a cumulative GPA of 2.7 at undergraduate level.
- (d) Graduates shall have a minimum of two years working experience.

#### 6.2.11.1.1 MSc in Behaviour Change (MSc BC) Evening Track Degree Programme Courses

##### Semester 1 - Year 1

Course code	Course name	Core/ elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent study (Hrs)	Practical (Hrs)	Total Hours	Credits
FP 600	Principles of public health and one health	Core	3.5	7	21	35	3.5	70	7
FP 601	Principles of epidemiology	Core	4.5	1	25	50	4.5	85	8.5
FP 602	Biostatistics	Core	4	5.5	26	44	5.5	85	8.5
FP 603	Health management, planning and policy	Core	6	12	37	61	6	122	12.2
FP 604	Introduction to environmental and occupational health	Core	3.5	7	21.9	36	3.6	72	7.2
FP 606	Research methods	Core	1	1	33	62	17	114	11.4
FP 607	Implementing behavior change	Core	4	7	21	34	4	70	7
EE 600	Bioethics	Core	10	15	10	23	2	60	6
CB 699	Dissertation	Core	1	1	1	69	1	72	7.2
<b>Total</b>			<b>35.5</b>	<b>53.5</b>	<b>197.9</b>	<b>419.0</b>	<b>44.1</b>	<b>750.0</b>	<b>75</b>

**Semester 2 - Year 1:**

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
CB 600	Behavior Change Basics	Core	175	360	15	50	50	650	65
HE 600	Educational Principles and Practices for Health Sciences Professionals.	Core	65	10	10	10	5	100	10
<b>Total</b>			<b>240</b>	<b>375</b>	<b>25</b>	<b>60</b>	<b>55</b>	<b>755</b>	<b>75</b>

**Semester 3 - Year 2:**

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
CB 601	Behaviour Change Practices	Core	40	60	10	210	430	750	75
<b>Total</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>250</b>	<b>500</b>	<b>750</b>	<b>75</b>

**Semester 4 – Year 2**

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
CB 699	Dissertation	Core	2	2	2	446	298	750	75
<b>Total</b>			<b>2</b>	<b>2</b>	<b>2</b>	<b>446</b>	<b>298</b>	<b>750</b>	<b>75</b>

**6.2.11.1.2 Examination Regulations for MSc BC Degree Programme.**

- (i) General university Examination regulations on registration, registration for examinations, professional conduct, eligibility for examination, absence from examination, Board of Examiners, conduct of examinations, Examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in Chapter one.
- (ii) The MSc BC Evening track is a 4-semester programme and the maximum tenure for the degree shall be 6 semesters.
- (iii) The maximum freezing period shall be 2 semesters.
- (iv) Registration of full-time students shall be once at the beginning of each semester.
- (v) There shall be at least two continuous assessments (CA) and regular assessment of competencies for each module/modular course taught during each semester. The CA and the regular assessment of competencies shall constitute the Formative Assessment (FA) and the final end of module/modular course or rotation examination the Summative Assessment (SA). Assessment shall be conducted using appropriate tools for competencies.
- (vi) The FA shall contribute 60% of the final grade in the end of module/modular course/rotation university examinations.



- (vii) The FA and SA shall consist of written (MCQs, short and long essays) papers, oral examination, graded field reports, rated assignments, rated Practicals, multisource rating, observation of procedures and rating, self-assessment and peer assessment, assessed as in (v) above.
- (viii) A candidate will be considered to have passed a course after passing all modules of the respective course.
- (ix) Decision-making of the failing students shall be determined at the end of the audit year.
- (x) No candidate shall be allowed to sit for supplementary in more than three failed courses at any given time irrespective of GPA and shall be discontinued from the programme.
- (xi) A candidate who fails in one or more courses, but whose GPA is 2.4 or higher shall be allowed to do supplementary examination(s) in the failed modules/modular courses during the long vacation.
- (xii) A candidate who fails the first supplementary examination shall be allowed to sit for a second supplementary examination when next offered provided she/he has a GPA of 2.7 or more.
- (xiii) A candidate who fails the second supplementary examination in semesters 1 - 2 shall be discontinued from the studies, except in special circumstances, if recommended by the School Board and Senate Higher Degrees Committee and approved by the University Senate. A candidate who fails the second supplementary in semester 3 and 4 shall be allowed to supplement the failed course/courses provided the maximum tenure of 6 semesters is not exceeded.
- (xiv) A candidate who fails any number of modules/courses and has a GPA of less than 2.4 shall be discontinued from the program.
- (xv) A candidate who passes a supplementary examination at any level shall be awarded a "B" grade.
- (xvi) A student shall be awarded the MSc BC degree after passing all modules in the programme and successful defense of a dissertation.
- (xvii) In addition to these Regulations, the General Regulations and Guidelines of Postgraduate Study Programmes shall be binding.
- (xviii) Notwithstanding these regulations, postgraduate students are governed by civil service regulations and shall have only one leave in a year during the long vacation.

#### **6.2.11.1.3 The Grading System**

The examination marks shall be graded as shown below:

<b>Grade</b>	<b>A</b>	<b>B+</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>Percent</b>	70-100	60-69	50-59	40-49	0-39
<b>GP Range</b>	4.4-5.0	3.5-4.3	2.7-3.4	2.0-2.6	0-1.9

#### **6.2.11.1.4 Regulations on dissertation**

- (i) Candidates will do the dissertation upon successful completion of all modules in all courses of the program.
- (ii) The dissertation shall consist of one research topic. Four loosely bound copies of the dissertation shall be submitted to the Dean of the School of Public Health and Social Sciences not less than THREE MONTHS before end of the last module examinations. A candidate who fails to

submit a dissertation within this period shall be barred from doing the final examinations.

- (iii) The candidate will be required to submit loosely bound copies of the dissertation not less than three months prior to the examination when next offered provided that the regulation on maximum tenure for MSc BC degrees allows.
- (iv) Oral defense of the dissertation shall be conducted during the end of 18<sup>th</sup> module. A candidate, having successfully defended the dissertation, will be required to submit error-free dissertation within 3 months in the case of minor corrections and within 6 months if there are major corrections.
- (v) In case of **outright rejection** a dissertation may be re-submitted for examination after 9 months.
- (vi) Dissertation rejected by examiners after re-submission shall not be accepted for re-examination at this University.
- (vii) A candidate shall be awarded the MSc BC degree after passing all examinations in the prescribed courses in the Program and submitting an error free dissertation.
- (viii) Candidates who, for valid reasons, fail to complete their dissertation within the specified period may apply for an extension of registration period. The maximum duration of the registration period (including extensions) should not exceed the maximum tenure of the programme.

## **6.2.12 Master of Science in Environmental and Occupational Health (MScEOH) Degree Programme**

### **6.2.12.1 Eligibility**

The following will be eligible for admission: -

- (a) Graduates with first degree from this University or any other recognized University in Environmental health sciences BScEHS or its equivalent, medicine (MD or its equivalent), Dentistry (DDS), nursing (BScN), Pharmacy (B. Pharm), Engineering, Environmental science and management, Natural sciences, and other related fields, and a cumulative GPA of 2.7 or higher.

### **6.2.12.1.1 Master of Science Environmental and Occupational Health (MScEOH) Degree Programme courses**

#### **Semester 1 year 1**

Course Code	Course name	Core or elective	Lecture Hrs	Tutorial /Seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
FP 600	Principles of public health and one health	Core	11	14	7.5	30	7.5	70	7
FP 601	Principles of epidemiology	Core	16	11	14	24	20	85	8.5
FP 602	Biostatistics	Core	15	14	10.5	31	14.5	85	8.5
FP 603	Health management, planning and policy	Core	18	24.5	12.5	48.5	18	122	12.2

FP 604	Introduction to environmental and occupational health	Core	12	15	7	28	10	72	7.2
FP 606	Research methods	Core	19	7	22.5	42	23.5	114	11.4
FP 607	Implementing behavior change	Core	10	14	7	28	11	70	7
EE600	Bioethics	Core	6	18	6	18	12	60	6
EO 601	Environmental Hygiene and Sanitation	Core	10	30	10	30	20	100	10
EO 699.1	Proposal development	Core	0.8	2.4	0.8	2.4	1.6	8	0.8
Total 1			117.8	149.9	97.8	281.9	138.1	786	78.6

### Semester 2 year 1

Course Code	Course name	Core or elective	Lecture Hrs	Tutorial /Seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
HE 600	Educational Principles and Practices for the Health Sciences Professionals	Core	10	30	10	30	20	100	10
EO 602	Water Quality Management	Core	20	60	20	60	40	200	20
EO 603	Risk Assessment and Management	Core	22	66	22	66	44	220	22
EO 604	Global Environmental Health	Core	20	60	20	60	40	200	20
EO 699.1	Proposal development	Core	4.8	14.4	4.8	14.4	9.6	48	4.8
Total 2			76.8	230.4	76.8	230.4	153.6	768	76.8

### Semester 3 year 2

Course Code	Course name	Core or elective	Lecture Hrs	Tutorial /Seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
EO 605	Occupational Hygiene Practice	Core	16	48	16	48	32	160	16
EO 606	Environmental and Health Impact Assessment	Core	18.8	56.4	18.8	56.4	37.6	188	18.8
EO 607	Food and Health	Core	18.6	55.8	18.6	55.8	37.2	186	18.6
EO 608	Elective	Core	21	63	21	63	42	210	21
EO 699.1	Proposal development	Core	2.4	7.2	2.4	7.2	4.8	24	2.4
Total 3			76.8	230.4	76.8	230.4	153.6	768	76.8

## Semester 4 year 2

Course Code	Course name	Core or elective	Lecture Hrs	Tutorial /Seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
EO 699.1	Proposal development	Core	20.8	62.4	20.8	62.4	41.6	208	20.8
EO 699.2	Data collection	Core	0	0	0	0	280	280	28
EO 699.3	Analysis and report	Core	0	84	0	0	196	280	28
Total 4			20.8	146.4	20.8	62.4	517.6	768	76.8

### 6.2.12.1.2 Examination Regulations for MScEOH Degree Programme

- (i) General University Examination regulations on registration, registration for examinations, professional conduct, eligibility for examination, absence from examination, Board of Examiners, conduct of examinations, Examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in Chapter one of the current prospectus
- (ii) The Master degrees are 4-semester programmes and the maximum tenure for the degree shall be 6 semesters.
- (iii) The maximum freezing period shall be 2 semesters.
- (iv) Registration of full time students shall be once at the beginning of each semester.
- (v) There shall be at least two continuous assessment tests (CAT) and regular assessment of competencies for each module/modular course taught during each semester. The field reports shall also be marked and graded as CAT. The CAT and the regular assessment of competencies shall constitute the Formative Assessment (FA) and the final end of module/modular course or rotation examination the Summative Assessment (SA).
- (vi) The FA shall contribute 50% of the final grade in the end of module/modular course/rotation university examinations.
- (vii) The FA and SA shall consist of written and practical components (Objective Structured Practical Examination – OSPE; multisource observation and rating, observation of procedures and rating, logbooks, and others). The proportional contribution for written and practical examinations will be 60 and 40% respectively for Basic Sciences and 40% and 60% in practical Subjects.
- (viii) A candidate will be considered to have passed a course after passing all modules/rotations of the respective course.
- (ix) Decision-making of the failing students shall be determined at the end of the audit year.

- (x) No candidate shall be allowed to sit for supplementary in more than three failed courses at any given time irrespective of GPA and shall be discontinued from the program.
- (xi) A candidate who fails in one or more modules in courses, but whose GPA is 2.4 or higher shall be allowed to do supplementary examination(s) in the failed modules/modular courses or rotations when offered during the long vacation.
- (xii) A candidate who fails the first supplementary examination shall be allowed to sit for a second supplementary examination when next offered provided she/he has a GPA of 2.7 or more.
- (xiii) A candidate who fails the second supplementary examination in semesters 1 - 2 shall be discontinued from the studies, except in special circumstances, if recommended by the School Board and Senate Higher Degrees Committee and approved by the University Senate. A candidate who fails the second supplementary in semester 3 and 4 shall be allowed to supplement the failed course/courses provided the maximum tenure of 6 semesters is not exceeded.
- (xiv) A candidate who fails any number of subjects and has a GPA of less than 2.4 shall be discontinued from the programme.
- (xv) A candidate who passes a supplementary examination at any level shall be awarded a "B" grade.
- (xvi) A student shall be awarded the MScEOH degree after passing all courses and successful defense of a dissertation.
- (xvii) In addition, the general Regulations and Guidelines of Postgraduate Study Programmes shall be binding
- (xviii) Notwithstanding these regulations, postgraduate students are governed by civil service regulations and shall have only one leave in a year during the long vacation.

#### **6.2.12.1.3 Dissertation Regulations for MScEOH Degree Programme**

- (i) The dissertation shall consist of one research topic that will be within the field of specialization. This will be determined by the candidate and approved by the Department.
- (ii) Four copies of loosely bound dissertation shall be submitted to the Dean of the School of Public Health and Social Sciences at least three months before end of semester 4 examinations. A candidate who does not submit an acceptable dissertation shall be barred from sitting for the final examinations.
- (iii) A candidate whose dissertation is considered unsatisfactory having passed all semester examinations shall be required to re-submit the dissertation for examination within three months in the case of minor corrections and within six months in the case of major corrections.
- (iv) In case of outright rejection a dissertation may be re-submitted for examination after 9 months.
- (v) Dissertations rejected by examiners after re-submission shall not be accepted for re-examination at this University.

- (vi) A candidate shall be awarded the MScEOH degree after passing all examinations in the prescribed courses in the Program and submitting an error free dissertation.
- (vii) Candidates who, for valid reasons, fail to complete their dissertation within the specified period may apply for an extension of registration period. The maximum duration of the registration period (including extension) should not exceed the maximum tenure for the programme.

#### **6.2.12.1.4 The Grading System**

The examination marks shall be graded as shown below:

<b>Grade</b>	<b>A</b>	<b>B+</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>Percent</b>	70-100	60-69	50-59	40-49	0-39
<b>GP Range</b>	4.4-5.0	3.5-4.3	2.7-3.4	2.0-2.6	0-1.9

#### **6.2.13 Master of Science in Health Information Management (MSc-HIM) programme**

##### **Master of Science in Health Information Management (MSc-HIM) Degree Programme**

Master of Science in Health Information Management is designed to equip students with fundamental health information management knowledge and skills which are critical in health and other related sectors. The graduates from this program will be expected to play leading roles as planners and managers of information at health facility level, district, regional, program, scheme, organization and national health system positions. To the end, graduates will be expected to work as planners and managers both in public and non-public sectors. The multiplier effect of the planning and management of information will provide a well defined and connected system across the country which will capture and manage information from different health sectors. This will provide basis for overall planning of health sector which rely heavily on information.

The Programme is composed of 9 modules. This is a blended course of face to face teaching an E-learning platform. The modules are spread into four different semesters. Under the current arrangement, the course will be taught in collaboration of three Universities including MUHAS,-Tanzania, Hochschule Ne-Ulm University of Applied Sciences-Germany and University of Western Cape-South Africa. Whereas the face to face sessions of first semester will be held in Hochschule Ne-Ulm University of Applied Sciences-Germany, the second semester sessions will be conducted in University of Western Cape-South Africa. For the case of third semester, the face to face sessions will be conducted at MUHAS and each student will be required to spend the fourth semester in the University where he/she has registered. The course will be advertised after every two academic years

##### **6.2.13.1 Eligibility**

The programme will be advertised after every two years. All applications will be submitted to the Director of Postgraduate Studies (DPGs). Applicants should be professionals with a university degree or equivalent level with the following characteristics

- (i) A cumulative GPA of at least 2.7 in undergraduate degree of MUHAS.

- (ii) Graduates from other recognized universities with at least a cumulative GPA of 2.7 in their first degrees in medicine, pharmacy, dentistry, nursing, radiology, laboratory sciences, midwifery, environmental health, sociology, anthropology, health statistics, demography, food sciences, veterinary sciences, nutrition, information sciences, IT, informatics, computer sciences, business studies, health service administration, epidemiology and other related fields are also eligible for selection in this program.

#### 6.2.13.1.1 MSc – HIM programme courses

##### Semester 1 year 1

Course Code	Course name	Core or elective	Lecture Hrs	Tutorial /Seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
HI 601	Health Systems	Core	10.5	21	63	105	10.5	210	21
HI 607	Intercultural Management and Communication	Core	8.5	17	51	85	8.5	170	17
HI 606	IT Resource Management	Core	6	12	36	60	6	120	12
Total			25	50	150	250	25	500	50

##### Semester 2 year 1

Course Code	Course name	Core or elective	Lecture Hrs	Tutorial /Seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
HI 603	Healthcare Information Systems	Core	11	22	66	110	11	220	22
HI 604	Information Systems Planning and Implementation	Core	12.5	25	75	125	12.5	250	25
HI 602	Health Data Management	Core	7	14	42	70	7	140	14
Total			30.5	61	183	305	30.5	610	61

##### Semester 3 year 2

Course Code	Course name	Core or elective	Lecture Hrs	Tutorial /Seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
HI 605	Management and Leadership in Health Organisation	Core	10.5	21	63	105	10.5	210	21
HI 600	Health Research Methodology	Core	9	18	54	90	9	180	18
Total			19.5	39	117	195	19.5	390	39

## Semester 4 year 2

Course Code	Course name	Core or elective	Lecture Hrs	Tutorial /Seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
H1 699	Dissertation	Core	20	40	120	200	20	400	40
Total			20	40	120	200	20	400	40

### 6.2.13.1.2 Examination Regulations for MSc-HIM Degree programme

- (i) General University Examination regulations on registration for examination, professional conduct, eligibility for examination, absence from examination, Board of Examiners, conduct of examinations, Examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in Chapter one.
- (ii) The MSc-HIM blended course is a 4-semester programme and the maximum tenure for the degree shall be 6 semesters.
- (iii) The maximum freezing period shall be 2 semesters.
- (iv) Registration of students shall be once at the beginning of each semester.
- (v) There shall be at least two Continuous Assessment Tests (CAT) and Regular Assessment of competencies for each module/modular course taught during each semester. The CAT and the regular assessment of competencies shall constitute the Formative Assessment (FA) and the final end of module/modular course or rotation examination the Summative Assessment (SA). Assessment shall be conducted using appropriate tools for each competency domain.
- (vi) The FA shall contribute 50% of the final grade in the end of module/modular course/rotation university examinations.
- (vii) The FA and SA shall consist of written (MCQs, short and long essays) papers, oral examination, graded field reports, rated assignments, rated Practicals, multisource rating, observation of procedures and rating, self-assessment and peer assessment, assessed as in (v) above.
- (viii) A candidate will be considered to have passed the programme/course after passing all modules.
- (ix) Decision-making of the failing students shall be determined at the end of the audit year.
- (x) A candidate who fails in one or more modules, but whose GPA is 2.4 or higher shall be allowed to do supplementary examination(s) in the failed modules during the long vacation.
- (xii) A candidate who fails any number of modules and has a GPA of less than 2.4 shall be discontinued from the program
- (xiii) A candidate who fails the first supplementary examination shall be allowed to sit for a second supplementary examination when next offered provided she/he has a GPA of 2.7 or more.
- (xiv) A candidate who fails the second supplementary examination in semesters 1 - 2 shall be discontinued from the studies, except in special circumstances, if recommended by the School Board and Senate Higher Degrees Committee and approved by the University Senate. A candidate who fails the second supplementary in semester 3 and 4 shall be allowed to supplement the failed course/courses provided the maximum tenure of 6 semesters is not exceeded.
- (xv) A candidate who passes a supplementary examination at any level shall be awarded a "B" grade.



- (xvi) No candidate will be allowed to repeat a semester except in very exceptional circumstances, on the recommendation of the SPHSS Board and approved by the University Senate
- (xvii) A student shall be awarded the MSc-HIM degree after passing all modules in the courses and successful defense of a dissertation.
- (xviii) In addition to these regulations, the general Regulations and Guidelines for Postgraduate Study Programmes shall be binding.
- (xix) Notwithstanding these regulations, postgraduate students are governed by civil service regulations and shall have only one leave in a year during the long vacation.

### 6.2.13.1.3 Grading System

The examination marks shall be graded as shown below:-

Grade	A	B+	B	C	D
Percent	100 – 70	69 – 60	59 – 50	49 – 40	39 – 0
GP	5.0 – 4.4	4.3 – 3.5	3.4 – 2.7	2.6 – 2.0	1.9 – 0.0

### 6.2.13.1.4 Regulations for Dissertation

- (i) The dissertation shall consist of one research topic that will be within the field of Health Information Management. The topic will be determined by the candidate and approved by the school.
- (ii) Four loosely bound copies of the dissertation shall be submitted to the Dean of the School of Public Health and Social Sciences not less than three months before dissertation defense. A candidate who fails to submit a dissertation at this period without approval will be barred from defending the dissertation.
- (iii) The candidate who fails to submit (as per section b above) will be required to submit loosely bound copies of the dissertation not less than three months prior to the examination when next offered provided that the regulation on maximum tenure for MSc-HIM degree allows.
- (iv) Oral defense of the dissertation shall be conducted during the end of semester 4. A candidate, having successfully defended the dissertation, will be required to submit error free dissertation within 3 months in the case of minor corrections and within 6 months in case of major corrections.
- (v) In case of **outright rejection** a dissertation may be re-submitted for examination after 9 months.
- (vi) Dissertation rejected by examiners after re-submission shall not be accepted for re-examination at this University.
- (vii) A candidate shall be awarded the MSc-HIM degree after passing all examinations in the prescribed courses in the Program and submitting an error free dissertation.
- (viii) Candidates who, for valid reasons, fail to complete their dissertation within the specified period may apply for an extension of registration period. The maximum duration

of the registration period (including extension) should not exceed six (6) Semesters.

- (ix) External and internal examiners shall score and grade the dissertation. The external examiner's score shall take precedence and included in the calculations of the final programme GPA.

#### **6.2.14 MSc Project Management, Monitoring and Evaluation in Health (MSc PMMEH)**

This is a four semester (2 year) programme intended to train professionals with skills in managing as well as evaluating health related projects. Henceforth, the programme will contribute to change in practice of project managers and other practitioners in the health sector.

##### **6.2.14.1 Eligibility for Admission**

- i) A graduate from any other recognized University in any health related field of study that include but not limited to health disciplines, anthropology, health statistics, environmental health sciences, demography, biology, food science, epidemiology, health information sciences, community development, public administration and sociology.
- ii) Applicants must have scored at least a GPA of 2.7 in their undergraduate degree programme

##### **6.2.14.2 Courses in MSc PMMEH**

###### **Semester 1 year 1**

Course Code	Course Name	Lecture Hrs	Tutorial/ Seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
FP 600	Principles of Public Health, and One Health	11	14	7.5	30	7.5	70	7
FP 601	Principles of Epidemiology	16	11	14	24	20	85	8.5
FP 602	Biostatistics	15	14	10.5	31	14.5	85	8.5
FP 603	Health Management, Planning and Policy	18	25	12.5	48.5	18	122	12.2
FP 604	Introduction To Environmental and Occupational Health	12	15	7	28	10	72	7.2
FP607	Implementing Behavior Change	10	14	7	28	11	70	7.0
FP 606	Research Methods	19	7	22.5	42	23.5	114	11.4

PME 601	Principles of Project Management in Health	14	8	7	50	11	90	9.0
<b>Total</b>		<b>115</b>	<b>108</b>	<b>88</b>	<b>281.5</b>	<b>115.5</b>	<b>708</b>	<b>76.8</b>

### Semester 2 year 1

Course Code	Course Name	Lecture Hrs	Tutorial/Seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
PME 602	Project Management Knowledge Areas	30	19.5	7.5	90	11	158	15.8
PME 603	Strategic Project Planning and Organization	20	12	8	70	10	120	12
PME 604	Implementation Science and Change Management	30	18	10	80	12	150	15
PME 605	Fundamentals of Monitoring and Evaluation	18	12	11.5	48.5	10	100	10
PME 606	Data Management and Use	15	17	8	70	10	120	12
PME 607	Health Management Information System	20	12	8	70	10	120	12
<b>Total</b>		<b>133</b>	<b>90.5</b>	<b>53</b>	<b>428.5</b>	<b>63</b>	<b>768</b>	<b>76.8</b>

### Semester 3 year 2

Course Code	Course Name	Lecture Hrs	Tutorial/Seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
PME 608	Design and Implementation Of Monitoring System in Health Intervention	18	12	11.5	48.5	10	100	10
PME 609	Principles of Designing and Implementation Evaluation of Health Interventions	15	17	8	70	10	120	12
PME 610	Applied M&E In Health Interventions	30	28	10	80	12	160	16
PME 611	Internship	8	5	3	8	344	368	36.8
PME 612	Dissertation	6	2	2	110	0	120	12
<b>Total</b>		<b>63</b>	<b>57</b>	<b>29.5</b>	<b>318.5</b>	<b>400</b>	<b>868</b>	<b>86.8</b>

## Semester 4 year 2

Course Code	Course Name	Lecture Hrs	Tutorial/Seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
PME 612	Dissertation	6	2	2	758	2	768	76.8

### 6.2.15 Master of Bioethics (MBE) Degree Programme

The MBE program provides students the foundational knowledge, skills and experience necessary to develop core competencies in bioethics. The program prepares students who enter the program with an existing professional degree for future careers involving bioethics research and teaching. It offers training in empirical, normative and clinical aspects of bioethics, with opportunities for more in-depth focus through placement and dissertation course work. Bioethics, interdisciplinary in nature, examines the ethical issues that arise in the biosciences. It draws from areas such as public health, medicine, nursing, philosophy, theology and law. The MBE program strives to reflect this interdisciplinary makeup, making it an exemplary model of post-professional education.

#### 6.2.15.1 Eligibility for admission

- Graduates in health-related fields from any recognized university with at least a cumulative GPA of 2.7.
- Mid-careers: for instance, lawyers, administrators, social workers, veterinarians, researchers, industrialist, regulators and other professionals engaged in health associated fields with at least a cumulative GPA of 2.7.

#### 6.2.15.1.2 MBE Degree program courses

### Semester 1 Year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
BE 600	Introduction: framing of bioethics	Core	14	54.5	13	45.75	31.5	159	15.9
BE 601	Philosophy of bioethics	Core	14	54.5	13	45.75	31.5	159	15.9
BE 602	Critical Thinking and Argumentation	Core	14	54.5	13	45.75	31.5	159	15.9
BE 603	Global Bioethics	Core	14	54.5	13.5	45.75	32	159	15.9
FP 606	Research Methods	Core	19	7	22.5	42	23.5	114	11.4
Total			75	225	75	225	150	750	75

### Semester 2 Year 1

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
BE 604	Research Ethics	Core	13	39	13	39	26	130	13.0
BE 605	Public Health Ethics	Core	12	36	12	36	24	120	12.0
BE 606	Human Rights and Bioethics	Core	12	36	12	36	24	120	12.0
BE 607	Bioethics of Vulnerable Populations	Core	12	36	12	36	24	120	12.0
BE 608	Clinical Bioethics	Core	13	39	13	39	26	130	13.0
BE 609	Ethics of Rationing and Resource Allocation	Core	13	39	13	39	26	130	13.0
Total			75	225	75	225	150	750	75

### Semester 3 Year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
BE 610	Bioethics Attachment	Core	10	20	20	150	300	500	50
BE699	Dissertation	Core	10	20	20	150	50	250	25
Total			20	40	40	300	350	750	75

### Semester 4 Year 2

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
BE 699	Dissertation	Core	10	20	20	500	200	750	75
Total						500	200	750	75

#### 6.2.15.1.3 Examination Regulations for the MBE program

- (i) General University Regulations on registration for examination, professional conduct, eligibility for examination, absence from examination, Board of Examiners, conduct of examinations, Examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in Chapter one.
- (ii) All modules or modular courses offered during a semester shall be examined at the end of the module or modular course or rotation. External examiners or moderators shall be invited at the end of the semester or audit year.
- (iii) There shall be at least two Continuous Assessment Tests (CAT) for each module.

These shall form the Formative Assessment (FA).

- (iv) The FA shall contribute 60% of the final grade in the end of module/modular course/rotation. Summative Assessment (SA) shall contribute 40% of the final grade.
- (v) To pass a course a candidate has to attain a B grade or higher.
- (vi) No candidate shall be allowed to sit for a supplementary examination in more than three failed courses at any given time irrespective of GPA and shall be discontinued from studies.
- (vii) A candidate who fails any number of modules/rotations and has a GPA of less than 2.4 shall be discontinued from studies.
- (viii) A candidate who fails the first supplementary examination shall be allowed to sit for a second supplementary examination when next offered provided he/she has an average GPA of 2.7 or above. A candidate who fails the second supplementary examination in semesters 1-2 shall be discontinued from the course, except in special circumstances, if recommended by the School Board and Senate Higher Degrees Committee and approved by the Senate.
- (ix) A candidate who passes a supplementary examination at any level shall be awarded a “B” grade.
- (x) No candidate will be allowed to repeat a semester except in very exceptional circumstances, on the recommendation of the School/Institute Board and approved by the Senate.
- (xi) A student shall be awarded the MBE degree after passing all examinations in the prescribed modules and courses in the program and submitting an error free dissertation.

#### **6.2.15.1.4 Grading System**

The examination marks shall be graded as shown below:

<b>Grade</b>	<b>A</b>	<b>B+</b>	<b>B</b>	<b>C</b>	<b>D</b>
Percent	100 – 70	69 - 60	59 – 50	49 – 40	39 - 0
GP	5.0 – 4.4	4.3 – 3.5	3.4 – 2.7	2.6 – 2.0	1.9 – 0.0

#### **6.2.15.1.5 Regulations for Dissertation**

- (i) The dissertation shall consist of one research topic that will be within the field of bioethics. The topic will be determined by the candidate and approved by the department.
- (ii) Four loosely bound copies of the dissertation shall be submitted to the Dean of the School of Public Health and Social Sciences not less than three months before dissertation defense. A candidate who fails to submit a dissertation at this period without approval will be barred from defending the dissertation.
- (iii) The candidate who failed to submit (as per section b above) will be required to submit loosely bound copies of the dissertation not less than three months prior to the examination when next offered provided that the regulation on maximum tenure for MBE degrees allows.
- (iv) Oral defense of the dissertation shall be conducted during the end of semester 4. A candidate, having successfully defended the dissertation, will

be required to submit error-free dissertation within 3 months in the case of minor corrections and within 6 months if there are major corrections.

- (v) In case of **outright rejection** a dissertation may be re-submitted for examination after 9 months.
- (vi) Dissertation rejected by examiners after re-submission shall not be accepted for re-examination at this University.
- (vii) A candidate shall be awarded the MBE degree after passing all examinations in the prescribed courses in the Program and submitting an error free dissertation.
- (viii) Candidates who, for valid reasons, fail to complete their dissertation within the specified period may apply for an extension of registration period. The maximum duration of the registration period (including extension) should not exceed six (6) semesters.

## CHAPTER SEVEN: INSTITUTE OF TRADITIONAL MEDICINE

### 7.1 INTRODUCTION

Since its inception, the Institute of Traditional Medicine has been carrying out research in the area of ethno biomedical information on medicinal plants used by Traditional Health Attendants in Tanzania. Additionally, the Institute carried out substantial pharmacological and phytochemical screening of medicinal plant samples culminating to formulation of various herbal products. In 2009/2010 the Institute has engaged itself in yet another milestone through conducting a Postgraduate teaching curriculum aimed at producing graduates who will further strengthen the contribution and development of Traditional medicine for the health of Tanzanians.



*MSc. Student in Traditional Medicine Development by Research and Publications working in DNA laboratory in the Department of Medical Botany, Plant Breeding and Agronomy*





*Some herbal products produced at the Institute of Traditional Medicine*

## 7.2 PROGRAMME

### 7.2.1 Master of Science in Traditional Medicines Development (MSc Trad Med Development) Programme.

The aim of this program is to impart knowledge and skills to trainees in research and development of improved drugs from traditional medicines and generating graduates with adequate knowledge for the evaluation, standardization, and formulation of traditional medicines. Graduates of this program will also be able to train others and conduct research in the area of traditional medicine and related fields.

#### 7.2.1.1 Entry requirements

- (i) Graduates with a minimum of lower second-class degree with GPA 2.7 in the following programmes: Pharmacy, Biotechnology and B.Sc. degree having Chemistry, Zoology, Botany or Forestry as one of the major subjects.
- (ii) Each applicant must satisfy the entire general requirements set out under the regulation for a Master's degree of the Muhimbili University of Health and Allied Sciences. These regulations are listed in the University Prospectus.

#### 7.2.1.1.1 MSc Traditional Medicine Development Degree Programme Courses.

Course code	Course name	Core or elective	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>Semester 1 Year 1: 69.6 credits</b>									
TM 601	Traditional and Alternative Health Care Systems	Core	45	81	20	36	20	202	20.2
TM 602	Medical Botany, Biosystematics, Plant Breeding	Core	55	186	33	39	35	348	34.8

ER 600	Epidemiology, biostatistics and research methodology	Core	6	30	10	22	18	86	8.6
EE 600	Bioethics	Core	6	18	6	18	12	60	6
<b>Total</b>			<b>112</b>	<b>315</b>	<b>69</b>	<b>115</b>	<b>85</b>	<b>696</b>	<b>69.6</b>
<b>Semester 2 Year 1: 76.8 credits</b>									
TM 603	Phytochemical Processes in Herbal Drugs Development	Core	60	205	32	37	34	368	36.8
TM 604	Biological Testing and Pre-clinical Studies	Core	57	121	35	42	45	300	30
HE 600	Educational Principles and Practices for the Health Sciences Professionals	Core	68	5	10	15	2	100	10
<b>Total</b>			<b>185</b>	<b>331</b>	<b>77</b>	<b>94</b>	<b>81</b>	<b>768</b>	<b>76.8</b>
<b>Semester 3 Year 2: 76.8 credits</b>									
TM 699	Dissertation Module 1: proposal development and data analysis	Core	2	123	77	360	206	768	76.8
<b>Total</b>			<b>2</b>	<b>123</b>	<b>77</b>	<b>360</b>	<b>206</b>	<b>768</b>	<b>76.8</b>
<b>Semester 4 Year 2: 76.8 credits</b>									
TM 699	Dissertation Module 2: Data analysis, write-up, examination and defense.	Core	1	131	77	331	228	768	76.8
<b>Total</b>			<b>1</b>	<b>131</b>	<b>77</b>	<b>331</b>	<b>228</b>	<b>768</b>	<b>76.8</b>

#### 7.2.1.1.2 Examination Regulations for MSc in Traditional Medicines Development Degree Programme

- (i) General University Examination regulations on registration, registration for examinations, professional conduct, eligibility for examination, absence from examination, Board of Examiners, conduct of examinations, Examination irregularities, procedures for appeals and preservation of scripts shall remain as stipulated in Chapter one.
- (ii) The academic year is the basic academic audit unit.
- (iii) The Master degree in Traditional Medicines Development is a 4-semester programme and the maximum tenure for the degree shall be 6 semesters.
- (iv) The maximum freezing period shall be 2 semesters.
- (v) Registration for full time students shall be once at the beginning of each semester.
- (vi) There shall be at least two Continuous Assessment (CAT) and regular Assessment of competencies for each module taught in each semester,

which shall constitute the Formative Assessment (FA) and end of module/course examination, which shall be the Summative Assessment (SA).

- (vii) The FA shall contribute 50% and the end of module Summative Assessment (SA) the other 50 %, of the final grade.
- (viii) A candidate will be considered to have passed a course after passing all modules of the respective course.
- (ix) Decision-making of the failing students shall be determined at the end of the audit year.
- (x) No candidate shall be allowed to sit for a supplementary examination in more than three failed courses at any given time irrespective of GPA and shall be discontinued from studies.
- (xi) A candidate who fail modules in one or more courses, but whose GPA is 2.4 or higher shall be allowed to do supplementary examination(s) in the failed modules/modular courses during the long vacation.
- (xii) A candidate who fails the first supplementary examination shall be allowed to sit for a second supplementary examination when next offered provided he/she has a GPA of 2.7 or more.
- (xiii) A candidate who fails the second supplementary examination in semesters 1- 2 shall be discontinued from the studies, except in special circumstances, if recommended by the Institute Board and Senate Higher Degrees Committee and approved by the University Senate. A candidate who fails the second supplementary in semester 3 and 4 shall be allowed to supplement the failed course/courses provided the maximum tenure of 6 semesters is not exceeded.
- (xiv) A candidate who passes a supplementary examination at any level shall be awarded a “B” grade.
- (xv) A candidate who fails any number of modules/modular courses or rotations and has a GPA of less than 2.4 shall be discontinued from studies.
- (xvi) No candidate will be allowed to repeat a semester except in very exceptional circumstances, on the recommendation of the Institute Board and approved by the Senate
- (xvii) The pass the examinations in the Master of Science in Traditional Medicines Development shall be 50%. (B grade)
- (xviii) The Master of Science in Traditional Medicines Development shall not be classified.
- (xix) A student shall be awarded the MSc Traditional Medicine Development degree after passing all courses and successful defense of a dissertation.
- (xx) In addition, the general Regulations and Guidelines of Postgraduate Study Programmes shall be binding.
- (xxi) Notwithstanding these regulations, postgraduate students are governed by civil service regulations and shall have only one leave in a year during the long vacation.

### 7.2.1.1.3 The Grading system

The examination marks shall be graded as shown below: -

Grade	A	B+	B	C	D
Percent	100-70	69-60	59-50	49-40	39-0
GP	5.0-4.4	4.3-3.5	3.4-2.7	2.6-2.0	1.9-0

Where;

A = Excellent; B+ = Very Good; B = Good; C = Marginal Failure, and D = Failure.

### 7.2.1.1.4 Dissertation Regulations

- (i) For one to qualify for the award of Master Degree in Traditional Medicines Development he/she must pass all semester examinations and the dissertation.
- (ii) The dissertation shall consist of one research topic chosen by the student and approved by the Department, Institute Board and University Senate.
- (iii) Four copies of loosely bound dissertation shall be submitted to the Director, Institute of Traditional Medicine at least THREE MONTHS before semester 4 examinations. Candidates who do not submit during that time will be barred from doing the final examinations.
- (iv) Their dissertations at this period shall be required to provide concrete reasons for not doing so, failure of which may lead to discontinuation from studies.
- (v) Oral defense of the dissertation shall be done during the end of semester 4 University examinations.
- (vi) A candidate whose dissertation is considered unsatisfactory having passed all semester examinations will be required to re-submit the dissertation for examination within 3 months in the case of minor corrections and within 6 months if there are major corrections.
- (vii) In case of outright rejection of a dissertation a candidate may submit another dissertation for examination after 9 months provided the maximum tenure allows.
- (viii) A dissertation rejected by the examiners after re-submission shall not be accepted for re-examination and the candidate shall be discontinued from studies

## CHAPTER EIGHT: FEE STRUCTURE AND SPECIAL STUDENTS' REQUIREMENTS

### 8.1 FEE STRUCTURE

All students shall promptly pay their dues to the University. Students who fail to do so shall be barred from registering and sitting for examinations.

#### 8.1.1 Annual fee structure for Master and PhD programmes is shown in the table below:-

	Master		Doctor of Philosophy	
	Local (Tshs)	Foreign (USD)	Local (Tshs)	Foreign (USD)
<b><i>I. PAYABLE TO UNIVERSITY</i></b>				
<i>Tuition Fee<sup>a</sup></i>	4,000,000	4,500	6,500,000	8,000
<i>Application Fee (once)<sup>b</sup></i>	100,000	50	100,000	50
<i>Registration Fee (once)</i>	200,000	100	240,000	120
<i>Quality Assurance Fee</i>	20,000	20	20,000	20
<i>Examination Fee</i>	400,000	200	2,400,000	1,200
<i>Ethical Clearance Fee (once)<sup>c</sup></i>	150,000	250	150,000	250
<i>Dissertation/Thesis Supervision</i>	500,000	250	1,500,000	1,800
<i>Research/Field Costs (once)<sup>d</sup></i>	2,400,000	1,200	10,000,000	5,000
<b><i>Sub Total</i></b>	<b>7,770,000</b>	<b>6,570</b>	<b>20,910,000</b>	<b>16,440</b>
<b><i>II. PAYABLE TO STUDENT<sup>e</sup></i></b>				
<i>Books Allowance</i>	600,000	300	1,000,000	500
<i>Stationery</i>	200,000	100	1,000,000	500
<i>Dissertation/Thesis Production (once)</i>	600,000	300	1,500,000	750
<i>Special Faculty Requirement</i>	600,000	300	600,000	1000
<i>Stipend<sup>f</sup></i>	12,000,000	6,000	12,000,000	6,000
<b><i>Sub Total</i></b>	<b>14,000,000</b>	<b>7,000</b>	<b>16,100,000</b>	<b>8,750</b>
<b><i>Grand Total</i></b>	<b>21,770,000</b>	<b>13,570</b>	<b>37,010,000</b>	<b>25,190</b>

<sup>a</sup>Special programmes in the SPHSS have different rates of annual tuition fees as shown below (local tuition fee and foreign in brackets):-

MPH distance learning 2,000,000/= Tsh (1,000 USD); MPH executive track 3,600,000 Tsh (3,000 USD); MSc Project Management, Monitoring and Evaluation in Health 3,300,000 Tshs (2,000USD); MSc Health Information Management 2,260,000/= Tsh (1,900 USD) and MSc Behavioural Change 2,550,000/= Tshs (2,500 USD)

<sup>b</sup>Application fee is exclusive of bank charges.

<sup>c</sup>Applicable for single regular review of health research proposals. Charges for review of clinical trials proposals, expedited reviews, amendments and renewals are as per MUHAS Ethical Clearance Fees Structure ([www.muhas.ac.tz](http://www.muhas.ac.tz)).

<sup>d</sup>Research costs shall be paid **once**, except for students in MSc Applied Epidemiology (MSc AE), MSc Epidemiology and Laboratory Management (MSc ELM), MSc by Research and PhD programmes where payments shall be done **annually**. Payable annual research costs for MSc AE and MSc ELM is 10,800,000 Tshs (5,000 USD). Actual research costs may be higher and should be paid accordingly depending on actual budgeted research costs.

<sup>e</sup>Not payable to the University. Students should negotiate these payments with sponsors.

<sup>f</sup>Based on TZS 1,000, 000/= per month for 12 months according to the current living costs.

Note: All students will have to join or show evidence that they are members of National Health Insurance Fund (NHIF) or other similar fund at the time of registration.

## 8.2 STUDENTS' SPECIAL PROGRAMME REQUIREMENTS

### 8.2.1 MMED AND MSC SUPERSPECIALIZATION PROGRAMMES

1	Diagnostic Kit
2	Delivery Kit (for applicable courses)
3	Theatre boots (for applicable courses)
4	Theatre gowns (for applicable courses)
5	Aprons
6	Eye protection gear
7	Masks and Caps
8	Case Report binder
9	Sphygmomanometer
10	Clinical Coats
11	Pen-torch and batteries
12	Neck tie/Scarf
13	Laptop
14	Software (for specific courses)
15	Any other specific need provided by respective department

**NOTE:** All students are required to own, and utilize these items in their rotations and examination. Failure to abide to these may bar a student from the clinic/ward/examinations.

## CHAPTER NINE: LISTS OF ACADEMIC STAFF AT MUHAS

### 9.1 SCHOOL OF MEDICINE

S/N	Name	Sex	Academic rank	Qualifications
<b>Department of Anaesthesiology</b>				
1.	E. R. Lugazia	M	Lecturer and Head	MD, MMed (UDSM), FCTA (India) MBA (Mzumbe)
2.	F. W. Mbanga	M	Senior Lecturer	MD, MMed (UDSM)
3.	K. J. Khalid	F	Lecturer	MD (Marmara), MMed (MUHAS)
4.	S. Mrutu	M	Tutorial Assistant	MD (MUHAS)
5.	H. Msanga	M	Tutorial Assistant	MD (MUHAS)
<b>Department of Anatomy and Histology</b>				
6.	D. Russa	M	Senior Lecturer and Head	BVM (SUA), MSc (Utrecht), PhD (Iwate, Japan)
7.	D. N. Ngassapa	M	Professor	DDS (Romania), MSc (Nijmegen), DSc (Kuopio)
8.	*E. Suluba	M	Assistant Lecturer	MD (UDSM), MSc (MUHAS)
9.	G. Towo	M	Assistant Lecturer	MD (UDSM), MSc (MUHAS)
10.	*A. K. Khamad	M	Tutorial Assistant	DDS (Cuba)
11.	P. F. William	M	Tutorial Assistant	MD (MUHAS)
12.	*A. E. Furaha	M	Tutorial Assistant	MD (MUHAS)
<b>Department of Biochemistry</b>				
13.	F. Dida	M	Lecturer and Head	MD (UDSM), PhD (Mie, Japan)
14.	E. V. Mbugi	M	Senior Lecturer	BVM, MVM (SUA), PhD (Wageningen, NL), Post Doc
15.	T. F. A. Mselle	M	Lecturer	MD (UDSM), MSc (Surrey), PhD (Dartmouth)
16.	*F. H. Urrio	F	Assistant Lecturer	BSc (Namibia), MSc Mol Biol (Linkoping)
17.	B. Stewart	M	Assistant Lecturer	BSc (UDSM), MSc (Seberas Maret Surakarta, Central Java, Indonesia)
18.	*J. J. Hayola	M	Tutoria Assistant	BSc (SUA)
19.	*K. Ndaki	M	Tutoria Assistant	BSc (UDSM)
20.	R. B. Mbwambo	F	Tutorial Assistant	BSc (SUA)
<b>Department of Clinical Oncology</b>				
21.	N. Dharsee	F	Lecturer and Head	MD, MMed (MUHAS), MSc (London)
22.	K. K. Y. Maunda	M	Senior Lecturer	MD (UDSM), MSc (Dundee), DMRT (London)
23.	J. Mwaiselage	M	Lecturer	MD (UDSM) PhD (Bergen)
24.	F. Yoram	M	Tutorial Assistant	BSc RTT (MUHAS)
<b>Department of Clinical Pharmacology</b>				
25.	S. F. Mugusi	F	Lecturer and Head	MBBS (IMTU), PhD (Karolinska)
26.	P. G. Sasi	M	Lecturer	MD, MMed (UDSM), PhD (MUHAS)
27.	*T. M. Mwakyandile	F	Assistant Lecturer	MD, MSc (MUHAS)
28.	*R. H. Mkungwe	M	Assistant Lecturer	MD, MSc (MUHAS)
29.	*M. A. Khalfan	M	Tutorial Assistant	MD (MUHAS)



30.	J. Jumanne	M	Tutorial Assistant	MD (MUHAS)
<b>Department of Emergency Medicine</b>				
31.	*H. R. Sawe	M	Senior Lecturer and Head	MD, MMed (MUHAS), MBA (Mzumbe)
32.	S. S. Kilindimo	M	Lecturer	MD (UDSM), MMed (Stellenbosch, SA)
33.	*E. G. Mapunda	F	Tutorial Assistant	MD (MUHAS)
<b>Department of Haematology and Blood Transfusion</b>				
34.	J. Makani	F	Associate Professor and Head	MD (UDSM), MRCP (UK), PhD (Open University, UK)
35.	C. Chamba	F	Lecturer	MD (HKMU), MMed (MUHAS)
36.	A. M. Nasser	F	Tutorial Assistant	MD (MUHAS)
37.	Y. S. Mtali	M	Tutorial Assistant	BSc HLS (KCMCo)
38.	W. F. Mawalla	M	Tutorial Assistant	MD (MUHAS)
<b>Department of Internal Medicine</b>				
39.	P. Ruggajo	M	Senior Lecturer and Head	MD (UDSM), MMed, MSc (MUHAS), PhD (Bergen)
40.	K. Pallangyo	M	Professor	MD, MMed (UDSM), Cert. Clin. Micro/Immuno. (Nagasaki)
41.	P. Munseri	F	Senior Lecturer	MD, MMed (UDSM), MPH (Dartmouth), PhD (Karolinska)
42.	P. Chillo	F	Senior Lecturer	MD, MMed (MUCHS), PhD (Bergen)
43.	T. J. Nagu	F	Senior Lecturer	MD (UDSM), MMed (MUHAS), PhD (Karolinska)
44.	G. Shayo	F	Senior Lecturer	MD (UDSM), MMed, PhD (MUHAS)
45.	E. V. Komba	M	Lecturer	MD (UDSM), MMed (MUHAS)
46.	*R. Mutagaywa	M	Lecturer	MD (UDSM), MMed, MSc (MUHAS)
47.	B. B. Tumaini	M	Lecturer	MD, MMed (MUHAS)
48.	D. G. Paulo	M	Tutorial Assistant	MD (MUHAS)
49.	I. Jonathan	F	Tutorial Assistant	MD (MUHAS)
50.	E. T. Msangi	F	Tutorial Assistant	MD (MUHAS)
51.	J. J. Mlay	M	Tutorial Assistant	MD (MUHAS)
<b>Department of Microbiology and Immunology</b>				
52.	A. Joachim	F	Senior Lecturer and Head	MD (UDSM), MMed (MUHAS), PhD (Karolinska)
53.	M. I. Matee	M	Professor	DDS, MSc, PhD (UDSM)
54.	S. Aboud	M	Associate Professor	MD, Mphil (Bergen), MMed (UDSM), PhD (Karolinska)
55.	*J. Manyahi	M	Senior Lecturer	MD (UDSM), MMed (MUHAS)
56.	*M. V. Majigo	M	Lecturer	MD (UDSM), MMed (UDSM)
57.	*F. M. Mbulinyingi	M	Lecturer	MD, MMed (MUHAS)
58.	D. Kamori	F	Lecturer	MD (CUHAS), PhD (Japan)
59.	*S. S. Masoud	M	Assistant Lecturer	MD (Tumaini), MSc (Nottingham)
60.	U. Kibwana	F	Assistant Lecturer	BSc HLS (KCMCo), MSc (MUHAS)
61.	*L. B. Nkinda	F	Tutorial Assistant	BSc HLS (KCMCo)
<b>Department of Obstetrics and Gynaecology</b>				
62.	P. T. Wangwe	M	Lecturer and Head	MBChB (Makerere), MMed (UDSM)

63.	A. B. Pembe	M	Professor	MD, MMed (UDSM), PhD (Uppsala)
64.	P. S. Muganyizi	M	Professor	MD, MMed (UDSM), PhD (Uppsala)
65.	S. N. A. Massawe	F	Associate Professor	MD, MMed (UDSM), Med (Manchester), PhD (Uppsala)
66.	C. D. S. Kilewo	M	Associate Professor	MD (Romania), MMed (UDSM), PhD (Karolinska)
67.	F. August	M	Senior Lecturer	MD, MMed (MUHAS), PhD (Uppsala)
68.	*F. M. Alwy	F	Lecturer	MD, MMed (MUHAS)
69.	B. Balandya	F	Lecturer	MD, MMed (MUHAS)
70.	A. Said	M	Lecturer	MD, MMed (MUHAS)
71.	A. I. Kikula	M	Tutorial Assistant	MD (MUHAS)
72.	*Z. H. Yusuph	F	Tutorial Assistant	MD (MUHAS)
73.	B. A. Muro	M	Tutorial Assistant	MD (KCMCo)
<b>Department of Ophthalmology</b>				
74.	C. Mhina		Lecturer and Head	MD, MMed (MUHAS)
75.	M. M. Mafwiri	F	Associate Professor	MD, MMed (UDSM), MSc (LSTM)
76.	J. S. Kisimbi	M	Lecturer	MD, MMed (MUHAS)
77.	N. S. Mosenene	F	Lecturer	MD (Havana), MMed (MUHAS)
78.	H. E. Masuki	F	Tutorial Assistant	MD (MUHAS)
<b>Department of Orthopaedics and Traumatology</b>				
79.	*B. T. Haonga	M	Lecturer and Head	MD (Warsaw), MMed (MUHAS)
80.	W. O. Kiloloma	M	Lecturer	MD, MMed (MUHAS), MSc (MUHAS)
81.	A. Assey	M	Lecturer	MD, MMed (MUHAS)
82.	C. N. Mcharo	M	Senior Lecturer	MD, MMed, MSc (UDSM)
83.	N. Rutabasigwa	M	Lecturer	MD, MMed (MUHAS)
84.	J. G. Ngeregeza	M	Lecturer	MD, MMed (MUHAS)
85.	K. J. Khalid	M	Lecturer	MD (UDSM), MMed (MUHAS)
86.	K. S. Nungu	M	Lecturer	MD (Havana), M Med, Sc (Uppsalla)
87.	J. L. Kahamba	M	Associate Professor	MD (Romania), MMed, MSc (UDSM)
88.	L. Mchome	M	Lecturer	MD, MMed
89.	I. Mkwazi	M	Lecturer	MD, MMed (MUHAS)
90.	M. R. Kassu	M	Tutorial Assistant	MD (MUHAS)
91.	G. Njambilo	M	Tutorial Assistant	MD (MUHAS)
<b>Department of Otorhinolaryngology</b>				
92.	E. Richard	F	Lecturer and Head	MD, MMed (MUHAS)
93.	D. E. Ntunaguzi	M	Lecturer	MD, MMed (MUHAS)
94.	K. B. Mapondela	M	Lecturer	MD (Tumaini), MMed (MUHAS)
95.	I. Francis	M	Tutorial Assistant	MD (MUHAS)
<b>Department of Paediatrics and Child Health</b>				
96.	N. S. Masoud	F	Senior Lecturer	MD (UDSM), MMed (MUHAS), PhD (Switzerland)
97.	K. Manji	M	Professor	MBBS (India), MMed (UDSM), MPH (Harvard)
98.	F. F. Furia	M	Senior Lecturer	MD, (UDSM), MMed (MUHAS)
99.	H. E. Naburi	F	Senior Lecturer	MD, MMed, (UDSM), MPH

				(Dartmouth), PhD
100.	E. N. Kija	M	Senior Lecturer	MD, MMed (MUHAS)
101.	R. Kisenge	M	Lecturer	MD, MMed (UDSM), PhD (Japan)
102.	*L. F. Chirande	F	Lecturer	MD, MMed (MUHAS)
103.	E. N. Assenga	F	Lecturer	MD, MMed (MUHAS)
104.	*D. Nkya	M	Lecturer	MD, MMed (MUHAS)
105.	*O. H. Urrio	M	Tutorial Assistant	MD (MUHAS)
106.	H. Malyas	F	Tutorial Assistant	MD (MUHAS)
<b>Department of Pathology</b>				
107.	A. R. Mwakigonja	M	Associate Professor and Head	MD, MMed (UDSM), PhD (Karolinska), FCPATH (ECSA)
108.	E. A. M. Vuhahula	F	Senior Lecturer	DDS (UDSM), Cert.Pathology Tech, PhD (Hiroshima), FCPATH (ECSA)
109.	P. M. Ng'walali	M	Lecturer	MD (UDSM), PhD (Kumamoto)
110.	E. E. Kabyemela	M	Senior Lecturer	MD, MSc (UDSM), PhD (Tumaini)
111.	*S. Haule	M	Tutorial Assistant	BMLS (MUHAS)
112.	S. S. Ramadhani	M	Tutorial Assistant	MD (MUHAS)
<b>Department of Physiology</b>				
113.	O. Chillo	M	Lecturer and Head	MD (MUHAS), PhD (Munich)
114.	E. Balandya	M	Senior Lecturer	MD (UDSM), PhD (Dartmouth)
115.	F. Mashili	M	Lecturer	MD (UDSM), PhD (Karolinska)
116.	A. M. Tungu	M	Lecturer	MD (MUHAS), PhD (Bergen)
117.	D. Ngarashi	M	Lecturer	MD (MUHAS), MSc. (MUHAS), PhD (Shiname, Japan)
118.	*G. N. Kiwango	M	Tutorial Assistant	MD (KCMCo)
119.	*A. A. Ebrahim	F	Tutorial Assistant	MD (MUHAS)
<b>Department of Psychiatry and Mental Health</b>				
120.	E. Steven	F	Lecturer and Head	MD, MMed (MUHAS)
121.	S. F. Kaaya	F	Professor	MD (UDSM), Dip. Psych, MSc. Med., (Manchester) PhD (Maastricht)
122.	*S. Likindikoki	M	Lecturer	MD (UDSM), MMed (MUHAS)
123.	*D. P. Mushi	F	Lecturer	MD (UDSM), MMed (MUHAS)
124.	I. S. Lema	M	Assistant Lecturer	BSc (TU-IUCo), MSc (MUHAS)
125.	M. N. Kilonzo	M	Assistant Lecturer	BSc (Malaysia), MSc Psychol (MUHAS)
126.	*T. D. Njau	F	Assistant Lecturer	BSc Couns. Psych (Iringa), MSc Clin Psychol (MUHAS)
<b>Department of Radiology and Imaging</b>				
127.	Z. Nkrumbih	F	Lecturer and Head	MD, MMed (MUHAS)
128.	R. R. Kazema	M	Senior Lecturer	MD (UDSM), MMed (Nairobi)
130.	*L. Fundikira	F	Lecturer	MD, MMed (CUBA)
131.	*M. Jacob	M	Senior Lecturer	MD, MMed (MUHAS)

132.	*M. Balowa	M	Lecturer	MD, MMed (MUHAS)
133.	*C. Malichewe	F	Lecturer	MBChB (MBARARA), MMed (MUHAS)
134.	*L. Salingwa	F	Tutorial Assistant	MD (MUHAS)
<b>Department of Surgery</b>				
135.	O. Nyongole	M	Senior Lecturer and Head	MD, MMed (MUHAS), MSc (Tumaini)
136.	C. A. Mkony	M	Professor	MD, MMed, (UDSM)
137.	M. M. Aboud	M	Associate Professor	MD, MMed (UDSM), MMed (Brussels), MSc (Tumaini)
138.	*L. O. Akoko		Senior Lecturer	MD (UDSM), MMed (MUHAS)
139.	*A. H. Mwanga	M	Lecturer	MD (UDSM), MMed, MScSS (MUHAS)
140.	A. M. Kategile	M	Lecturer	MD (USSR), MMed (UDSM) MSc (Tumaini)
141.	R. H. Khamis	M	Lecturer	MD, MMed (MUHAS)
142.	M. J. Byomuganyizi	M	Lecturer	MD (UDSM), MMed (MUHAS)
143.	*F. A Mushi	F	Tutorial Assistant	MD (MUHAS)
144.	N. E. Kivuyo	F	Tutorial Assistant	MD (MUHAS)
<b>Biomedical Engineering Unit</b>				
145.	O. Pinda	M	Assistant Lecturer	ADE (MUST) PGD, MSc (UDSM), MSc (Anhalt)
146.	T. Kabika	M	Assistant Lecturer	BSc (UDSM), MSc (TUTE), MSc (Anhalt)
147.	*S. Mayala	M	Assistant Lecturer	BSc (UDOM) MSc (AIMS)
148.	D. Mzurikwao	M	Assistant Lecturer	BE (Electronics & Comm. Eng (St Soseph Univerty of Tanzania), ME (Tianjin, China)
149.	*D. E. Minja	F	Tutorial Assistant	BEng (MUST)
150.	*R. Said	M	Tutorial Assistant	BEng (MUST)

\*On study leave

\*\*On leave of absence

## 9.2 SCHOOL OF DENTISTRY

S/N	Name	Sex	Academic rank	Qualification
<b>Department of Oral and Maxillofacial Surgery</b>				
1.	K. S. Sohal	M	Assistant Lecturer and Head	DDS (MUHAS), MDent (MUHAS)
2.	J. R. Moshly	M	Senior Lecturer	DDS (UDSM), MDS-OMFS (Nairobi)
3.	E. N. Simon	M	Senior Lecturer	DDS (UDSM), Cert. in Radiology (Amsterdam), PhD (Nijmegen)
4.	S. S. Owibingire	M	Senior Lecturer	DDS (UDSM), MDent (MUHAS)
5.	D. K. Deoglas	M	Tutorial Assistant	DDS (MUHAS)
6.	P. J. Laizer	M	Tutorial Assistant	DDS (MUHAS)
<b>Department of Orthodontics, Pedodontics and Community Dentistry</b>				
7.	F. Machibya	M	Senior Lecturer and Head	DDS (UDSM), DGH (Tampere), MCL Dent Orthod (Jilin), PhD (Fujian)

				Medical University)
8.	F. K. Kahabuka	F	Professor	DDS (UDSM), MSc (UDSM), PhD (Nijmegen)
9.	J. R. Masalu	F	Senior Lecturer	DDS (UDSM), MPH (Leeds), PhD (Bergen)
10.	M. Mtaya-Mlangwa	F	Senior Lecturer	DDS (UDSM), MPhil (Bergen), PhD (Bergen)
11.	H. S. Mbawalla	F	Senior Lecturer	DDS (UDSM), DGH (Tampere), PhD (Bergen)
12.	*K. K. Nyamuryekung'e	M	Lecturer	DDS (MUHAS), MPhil (Bergen), PhD (Turku)
13.	S. M. Abubakary	F	Tutorial Assistant	DDS (MUHAS)
14.	E. L. Daniel	M	Tutorial Assistant	DDS (MUHAS)
<b>Department of Restorative Dentistry</b>				
15.	N. M. Makoye	M	Lecturer and Head	DDS (UDSM), MDent (MUHAS)
16.	E. G. S. Mumghamba	M	Senior Lecturer	DDS (UDSM), MDent (UDSM), PhD (Turku)
17.	L. C. Carneiro	F	Senior Lecturer	DDS (UDSM), MSc, PhD (Pretoria)
18.	I. A. Kida	F	Senior Lecturer	DDS (UDSM), MPhil (Bergen), PhD (Bergen)
19.	L. E. Mkony	F	Lecturer	DDS (UDSM), PhD (Bergen)
20.	T. S. Ndekero	M	Lecturer	DDS (UDSM), MDent (MUHAS)
21.	E. Mulyahela	M	Tutorial Assistant	DDS (MUHAS)

### 9.3 SCHOOL OF PHARMACY

S/N	Name	Sex	Academic rank	Qualifications
<b>Department of Medicinal Chemistry</b>				
1.	E. A. Kaale	M	Professor and Head	BPharm (UDSM), MPharm Sc, PhD (KULeuven, Belgium), PGD- M&E (Stellenbosch, SA)
2.	V. K. Mugoyela	F	Associate Professor	BPharm (UDSM), PhD (Sunderland)
3.	J. Sempombe	M	Senior Lecturer	BSc Edu. (UDSM), MSc Chem (UDSM), PhD (New Mexico)
4.	V. Manyanga	F	Lecturer	BPharm (UDSM), MPharmSc, PhD (KULeuven)
5.	N. Nyakirangani	M	Lecturer	BSc. Chem. (Wiscosin – Whitewarer), PhD (Wisconsin-Milwaukee)
6.	*N. E. Masota	M	Assistant Lecturer	BPharm (MUHAS), MSc (MUHAS)
7.	*I. J. Daniel	M	Tutorial Assistant	BPharm (MUHAS)
8.	*P. Malaba	M	Tutorial Assistant	BPharm (MUHAS)
<b>Department of Pharmaceutics and Pharmacy Practice</b>				
9.	B.A. Maganda	F	Lecturer and Head	BPharm (UDSM), MSc (Bradford) PhD (MUHAS)

10.	G. A. B. Kagashe	F	Associate Professor	BPharm (UDSM) PhD (Galway, Ireland) MSc. PSCM (Mzumbe University)
11.	*D. Pius	M	Assistant Lecturer	BPharm (UDSM), MSc (Ireland)
12.	*M. Eulambius	M	Assistant Lecturer	BPharm (MUHAS) MPharm (MUHAS)
13.	*A. Tindamanyire	F	Assistant Lecturer	BPharm (MUHAS) MPharm (MUHAS)
14.	V. B. Mbuya	M	Assistant Lecturer	BPharm, MSc (JSS College of Pharmacy, Mysuru Karnataka INDIA)
15.	* J. Ayubu	M	Tutorial Assistant	BPharm (MUHAS)
16.	D. T. Myemba	M	Tutorial Assistant	Bpharm (MUHAS)
17.	D. T. Myemba	M	Tutorial Assistant	BPharm (MUHAS)
<b>Department of Pharmaceutical Microbiology</b>				
18.	R. Z. Sangeda	M	Senior Lecturer and Head	BPharm (India), MSc (Jomo Kenyatta Univ.), MPharm Sc, PhD (KU Leuven)
19.	K. D. Mwambete	M	Professor	MSc Pharm (Havana), PhD (Madrid)
20.	D. A. S. Mloka	F	Senior Lecturer	BSc, MSc, (London), PhD (MUHAS)
21.	L. Mwita	F	Lecturer	BSc Biotech (UDSM), PhD (Pretoria)
22.	F. M. Felix	F	Assistant Lecturer	BPharm (MUHAS), MSc (China Pharmaceutical University)
23.	G. Bwire	M	Assistant Lecturer	BSc Hons. (UDSM), MSc (MUHAS)
<b>Department of Pharmacognosy</b>				
24.	S. M. Maregesi	F	Associate Professor and Head	BSc (Hons.) (UDSM), Cert. Pharm Techn, MPharmSc (Ghent), PhD (Antwerp)
25.	O. D. Ngassapa	F	Associate Professor	BPharm (UDSM), PhD (Chicago)
26.	D. K. B. Runyoro	F	Senior Lecturer	BPharm (UDSM) MPhil (Bradford), PhD (MUHAS)
27.	R. Mwakalukwa	M	Assistant Lecturer	BPharm, MPharm (MUHAS)
28.	*G. Sambayi	M	Tutorial Assistant	BPharm (MUHAS)
	M. D. Lugoba	M	Tutorial Assistant	BPharm (MUHAS)
<b>Department of Clinical Pharmacy and Pharmacology</b>				
29.	O. M. S. Minzi	M	Associate Professor and Head	MSc Pharm (Pyatigorsk), MSc (VUB-Vrije, Brussels), PhD (UDSM)
30.	A. R. Kamuhabwa	M	Professor	Bpharm (UDSM), Mpharm Sc, PhD (KU Leuven)

31.	I. Alphonse	M	Assistant Lecturer	Bpharm, MSc (MUHAS)
32.	R. Mutagonda	M	Assistant Lecturer	Bpharm, MSc (MUHAS)
33.	H. J. Mlyuka	M	Assistant Lecturer	Bpharm, Mpharm (MUHAS)
34.	*W. Mikomangwa	M	Tutorial Assistant	Bpharm (MUHAS)
35.	*M. Kilonzi	M	Tutorial Assistant	Bpharm (MUHAS)
36.	*W. A. Kibanga	F	Tutorial Assistant	Bpharm (MUHAS)

\*On study leave

\*\*\*On leave without pay

## 9.4 SCHOOL OF NURSING

S/N	Name	Sex	Academic rank	Qualifications
<b>Department of Clinical Nursing</b>				
1.	D. A. Mkoka	M	Lecturer and Head	BSc. N (UDSM), MSc (MUHAS), PhD (MUHAS)
2.	L. T. Mselle	F	Senior Lecturer	RN, RM, Dipl. Ned (Dar), ADNE, BA Sociology (UDSM), Mphil HP (Bergen), PhD (MUHAS)
3.	M. K. Iseselo	M	Assistant Lecturer	BSc. N (UDSM), MSc (MUHAS)
4.	J. S. Ambikile	M	Assistant Lecturer	BSc. N (UDSM), MSc (MUHAS)
5.	F. B. Ramadhani	F	Assistant Lecturer	BSc. N (UDSM), MSc (MUHAS)
6.	M. Ndile	M	Assistant Lecturer	BSc. N (UDSM), MSc (MUHAS)
7.	S. E. Buluba	F	Tutorial Assistant	BSc. N (MUHAS)
8.	P. M. Temba	M	Tutorial Assistant	BSc. N (MUHAS)
9.	N. Michael	M	Tutorial Assistant	BS. N (MUHAS)
<b>Department of Community Health Nursing</b>				
10.	B. E. Mwilike	F	Lecturer and Head	BSc. N (MUHAS), MSc MW&WH (Makerere), PhD. (SLIU-Tokyo),
13.	S. Leshabari	F	Senior Lecturer	RN/M, ADNE (Dar), BA Sociology (UDSM), MPH (Boston), PhD (Bergen)
14.	S. Mushy	F	Assistant Lecturer	BSc. N (MUHAS), MSc. MW&WH (Makerere)
15.	A. F. Masae	F	Assistant Lecturer	BSc. N (MUHAS), MSc MW&WH (Makerere)
	G. G. Lukumay	F	Tutorial Assistant	BSc. N (MUHAS)
16.	D. L. Mwakawanga	F	Assistant Lecturer	BSc. MW (MUHAS), MSc MW&WH (MUHAS)
17.	V. Chikwala	M	Tutorial Assistant	BSc. MW (MUHAS)
18.	A. A. Lyimo	M	Tutorial Assistant	BSc. MW (MUHAS)



19.	H. Lilenga	M	Tutorial Assistant	BSc. MW (MUHAS)
<b>Department of Nursing Management</b>				
20	B. M. Morris	M	Assistant Lecturer and Head	BSc. N (MUHAS), MBE (PENN)
21.	E. A. M. Tarimo	F	Senior Lecturer	BSc. N (UDSM), Mphil (Bergen), PhD (Karolinska)
22.	R. H. Kiangi	M	Assistant Lecturer	BSc. N (UDSM), MSc (SUA)
23.	A. Kibwanda	M	Tutorial Assistant	BSc. N (MUHAS)
24.	N. E. Mawi	F	Tutorial Assistant	BSc. N (MUHAS)
25.	E. E. Summary	M	Tutorial Assistant	BSc. N (MUHAS)

## 9.5 SCHOOL OF PUBLIC HEALTH AND SOCIAL SCIENCES

S/N	Name	Sex	Academic rank	Qualifications
<b>Department of Behavioral Sciences</b>				
1.	M. Ezekiel	M	Lecturer and Head	BA, MA (UDSM), PhD (Oslo)
2.	P. G. M. Mujinja	M	Associate Professor	BA (UDSM), MPH, CIH, MA (Econ) (Boston), PhD (Heidelberg)
3.	D. C. V. Kakoko	M	Senior Lecturer	Bed, MA (UDSM), PhD (Bergen)
4.	S. R. Kamazima	M	Associate Professor	Bed, MA (UDSM), PhD (Minnesota)
5.	I. H. Mosha	F	Lecturer	BA, MA (UDSM), PhD (Radboud University Nijmegen)
6.	P. D. Nahato	F	Lecturer	BA (UDSM), Mphil (Oslo), PhD (UDSM)
7.	H. Saronga	F	Lecturer	BA, MA (UDSM), PhD (Heidelberg)
8.	E. Metta	F	Lecturer	BA, MA, (UDSM), PhD (Groningen)
9.	W. Onesmo	F	Assistant Lecturer	BA (UDSM), MSc (MUHAS)
10.	B. Stanslaus	F	Tutorial Assistant	BA (Institute of Social Work, DSM)
11.	B. S. Rhobi	F	Tutorial Assistant	BA (Institute of Social Work, DSM)
<b>Department of Community Health</b>				
12.	D. O. Simba	M	Associate Professor and Head	MD, MMed (UDSM), PhD (Karolinska)
13.	A. T. Kessy	F	Senior Lecturer	MD, MMed (UDSM)
14.	G. I. Msamanga	M	Professor	MD, DPH. (UDSM), M.Sc., ScD (Harvard)
15.	D. P. Urassa	M	Professor	MD (UDSM), MTH (Queensland), MPH (Rome), PhD (Uppsala)
16.	B. F. Sunguya	M	Senior Lecturer	MD (UDSM), Msc, PhD (Tokyo).
17.	N. J. Saronga	F	Assistant Lecturer	BSc HEHN(SUA), MSc. Nutrition (Wageningen)
18.	H. Mruma	M	Assistant Lecturer	MD, MPH (MUHAS)
19.	M. Amour	F	Assistant Lecturer	MD (MUHAS), MPH (Dartmouth)
20	S. B. MohaMMed	F	Assistant Lecturer	BSc (SUA), MSc (SUA)



21	S. M. Bakar	F	Assistant Lecturer	BSc (SUA), MSc (Michigan State University)
<b>Department of Environmental and Occupational Health Sciences</b>				
22.	J. S. Mlimbila	F	Lecturer and Head	BSc (SUA), MSc (Wageningen) PhD (UDSM)
23.	S. H. D. Mamuya	M	Senior Lecturer	BSc (Eng) (UDSM), Dipl. (San. Eng) (Delf), Mphil (Bergen), PhD (Bergen)
24.	E. Mrema	M	Senior Lecturer	BSc, MSc (UDSM), PhD (Milano)
25.	G. H. Sakwari	F	Lecturer	BSc EHS (UDSM), MSc. (Bergen), PhD (Bergen)
26.	S. S. Kishinhi	M	Lecturer	BSc. (SUA), MSc. EncSc (Jackson State), PhD (Jackson State)
27.	*H. H. Mwanga	M	Lecturer	MD (UDSM), MMED (Cape Town), FCPHM (SA) Occ Med (Cape Town)
28.	* D. L. R. Rweyemamu	M	Assistant Lecturer	BSc. EE. (UDSM), MSc. (UDSM)
29.	H. L. Mohamed	M	Lecturer	BSc EHS, MSc (UDSM), PhD (ARU)
30.	H. Kaijage	M	Assistant Lecturer	BSc EHS (UDSM), MSc (UDSM)
31.	*L. P. Mwelange	M	Assistant Lecturer	BSc (MUHAS), MSC Candidate (MUHAS)
32.	J. S. Bachwenkizi	M	Assistant Lecturer	BSc (ARDHI Univ), MSc (IHE DELFT, The Nertherlands)
33.	S. S. Kabelwa	F	Assistant Lecturer	BSc (ARDHI Univ), MSc (MUHAS)
34.	*S. S. Salehe	M	Assistant Lecturer	BSc EHS (MUHAS), MPH (UK)
35.	W. John	F	Assistant Lecturer	BSc (SUA), MSc (MUHAS)
36.	M. E. Shao	F	Assistant Lecturer	BSc (ARU), MSc (UDSM)
37.	*W. N. Mwakalasya	M	Tutorial Assistant	BSc (MUHAS)
38.	W. J. Axweso	F	Assistant Lecturer	BSc (SUA), MSc (MUHAS)
<b>Department of Development Studies</b>				
39.	G. M. Frumence	M	Senior Lecturer and Head	BA, MA (UDSM), PhD (Umea).
40.	T. M. Nyamhanga	M	Senior Lecturer	BSc (N), MA (UDSM), PhD (MUHAS)
41.	**A. Semakafu	F	Senior Lecturer	BA, MA (UDSM), PhD (UDSM)
42.	A. A. Mlaki	M	Lecturer	BSc, MA (UDSM), PhD (Aarhus)
43.	G. R. Mahiti	F	Lecturer	BSc, MA(SUA), PhD (MUHAS)
44.	G. Ruhago	M	Lecturer	Bsc.EHS, MA (MUHAS), PhD (Bergen)
45.	M. M. Tungu	M	Assistant Lecturer	BA, MA (UDSM)
46.	N. S. Sirili	M	Lecturer	MD, MSc (MUHAS), PhD (Umea)
47.	L. S. Paulo	F	Tutorial Assistant	MD (MUHAS), MSc(London)
48.	F. A. Ngowi	M	Assistant Lecturer	BA, MA (UDSM)
49.	J. F. Mlay	M	Assistant Lecturer	BA, MA (UDSM)

50.	A. Kagaigai	F	Assistant Lecturer	BA, MA (UDSM)
51.	T. Ruwaichi	M	Tutorial Assistant	Ba (Ardhi University)
52.	P. Luoga		Tutorial Assistant	BHSM (Mzumbe)
<b>Department of Epidemiology and Biostatistics</b>				
53.	C. S. Moshiro	F	Senior Lecturer and Head	BSc (UDSM), MSc (London), PhD (Bergen)
54.	G. Kwesigabo	M	Associate Professor	MD (UDSM), MSc (London), Med (Manchester), PhD (Umea)
55.	M. R. Kazaura	M	Associate Professor	BA (UDSM), MSc (London), PhD (Bergen)
56.	R. M. Mpembeni	F	Associate Professor	BSc (UDSM), MSc (London), PhD (MUHAS)
57.	*M. M. Mizinduko	M	Assistant Lecturer	MD (MUHAS), MPH (BOSTON)
58.	*D. T. Faini	F	Tutorial Assistant	MD (MUHAS)
59.	*T. A. Ottaru	F	Tutorial Assistant	MD (MUHAS)
60.	*H.A. Paulo	M	Tutorial Assistant	BSc (UDOM)
61.	J. V. Mbishi	F	Tutorial Assistant	BSc (Mzumbe)
62.	E. A. Mboya	M	Research Fellow Trainee	MD (MUHAS)
<b>Department of Parasitology and Medical Entomology</b>				
63.	M. L. Mubi	F	Lecturer and Head	BSc, MSc TDC (UDSM), PhD (Karolinska)
64.	D. S. Tarimo	M	Associate Professor	MD, MSc TDC (UDSM), PhD (Denmark)
65.	D. B. Gasarasi	F	Senior Lecturer	Dipl.Ed, BSc (UDSM), M SPH, ScD (Tulane)
66.	B. Ngasala	M	Senior Lecturer	MD (UDSM), PhD (Karolinska)
67.	T. D. Makene	F	Tutorial Assistant	BSc (UDSM)
68.	*L. E. Edward	M	Tutorial Assistnat	MD (MUHAS)
69.	*D. D. Mutemi	F	Assistant Lecturer	BSc (UDSM), MSc PE (MUHAS)
70.	*V. Mushi	F	Tutorial Assistant	BSc (UDSM), MSC TDC (MUHAS)
<b>Department of Bioethics and Health Professionalism</b>				
71.	*R. S. Joseph	F	Lecturer and Head	MD (UDSM), MMED (Paed) (MUHAS), MBE (Upenn)
72.	J. E. Shayo	F	Assistant Lecturer	BSc.N (UDSM), MA-HPM (MUHAS), MBE (Upenn)
73.	*G. K. Pancras	M	Assistant Lecturer	MBB(UDSM), MBE (MUHAS)
74.	R. M. Athanas	M	Assistant Lecturer	Dip -PHIL(Nairobi), BA-THEO (JUCO), MBE (MUHAS)
75.	*R. E. Rabacchi	F	Tutorial Assistant	LLB (Mzumbe), Pg. Dip (Legal Practice) (Law School of Tanzania)

\*On study leave

\*\* On leave of absence

\*\*\* On leave without pay

## 9.6 INSTITUTE OF TRADITIONAL MEDICINE

S/N	Name	Sex	Academic rank	Qualifications
<b>Department of Biological and Pre-clinical Studies</b>				
1.	R. S. O. Nondo	M	Research Fellow and Head	BPharm (UDSM), MSc Pharmacology (France), PhD (MUHAS)
2.	M. J. Moshi	M	Associate Research Professor	B. Pharm (UDSM), PhD (Strathclyde, Glasgow)
3.	P. J. Masimba	M	Senior Research Fellow	BVM, MSc (SUA), PhD (Basel)
4.	*J. T. Mollel	M	Assistant Lecturer	BSc (SUA), MSc (MUHAS)
5.	B. C. Mwitwa	M	Assistant Lecturer	BSc (SUA), MSc (MUHAS)
6.	M. J. Shayo	F	Research Fellow Trainee	BSc, MSc (SUA)
7.	C. Mwinuka	M	Research Fellow Trainee	MD (MUHAS)
<b>Department of Natural Products Development and Formulation</b>				
7.	F. K. Machumi	M	Research Fellow and Head	BSc. Educ (UDSM), MSc Chem (Botswana); PhD (UoNBI)
8.	*B. S. Ndiege	M	Assistant Research Trainee	BSc Chem (UDSM), MSc Trad Med Development (MUHAS)
9.	*M. N. Mbunde	M	Assistant Lecturer	BSc, MSc (SUA)
10.	I. A. Almas	M	Assistant Research Fellow	BSc Ed (UDSM), MSc Trad Med Dev (MUHAS)
11.	D. L. Credo	M	Assistant Lecturer	BSc (UDSM), MSc Trad Med Dev (MUHAS)
12.	*M. Q. Xwatsal	M	Assistant Research Fellow	Dipl Ed (MTC), BSc Ed (OUT), MSc Chem (OUT)
<b>Department of Medical Botany Plant Breeding and Agronomy</b>				
13.	P. J. Masimba	M	Senior Research Fellow and Head	BVM, MSc (SUA), PhD (Basel)
14.	J. N. Otieno	M	Senior Research Fellow	BSc, MSc (SUA), PhD (UDSM)
15.	*S. A. Abihudi	F	Assistant Lecturer	BSc (Makerere) MSc (MUHAS)
16.	M.T. Mwakilasa	F	Research Fellow Trainee	BA Sociology (UDSM), MSc Marketing (MUDCo)
17.	A. Mwijage	M	Assistant Research Fellow	BSc, MSc Sociology & Anthropology (UDSM)
18.	S. Hilonga	M	Research Fellow Trainee	BSc Botanical Sci (UDSM)

\* On study leave

## 9.7 THE UNIVERSITY LIBRARY

S/N	Name	Sex	Academic rank	Qualifications
1.	M. A. Ruzegea	F	Librarian and Director	BEd (UDSM), MA Information Studies (UDSM), PhD (IIUM, Kuala Lumpur Malasia)
2.	R. Chande-Mallya	F	Librarian and Head, Readers' Section	BEd (UDSM), MA Information Studies (UDSM), PhD Information Studies (UDSM)
3	S. E. Msonde	M	Librarian	Dipl. In Education (Klerruu), BSc. Agric Gen (SUA), MA Information Studies (UDSM), PhD Information Tech. in Education (Hong Kong)
4.	R.T. Mushi	F	Assistant Librarian and Head, Periodic and e-Resources	BA Information Science (Zululand), MSc. Information Studies (KwaZulu-Natal), PhD Information System & Tech. (KwaZulu-Natal)
5.	C. W. Marwa	M	Assistant Librarian	BSc. Computer science (St. Joseph Institute), MA Information Studies (UDSM).
6.	B. E. Sengo	M	Assistant Librarian Trainee	BSc. Informatics, SUA
7.	D. M. Sabas	M	Assistant Library and Head, ICT Section	Bed. Education Psychology, MA Information Studies (UDSM)
8.	V. C. Mwalyego	M	Assistant Librarian	BSc. Library Information Science (Makerere), MA Information Technology (Pretoria)
9.	L. L. Kanyuma	M	Assistant Librarian	BA Information Studies (UDSM), MA Library Information System (Tumaini)
9.	R. Adam	F	Assistant Librarian Trainee	BA Library and Information Studies (UDSM)
10	B. Oregenes	M	Assistant Librarian Trainee	BA Library and Information Management (Mzumbe)
11	S. Kassim	F	Assistant Librarian Trainee	BSc Library Information Management (Mzumbe)

\*\* Leave of Absence

## 9.8 DIRECTORATE OF ICT

S/N	Name	Sex	Academic rank	Qualifications
1.	F. Sukums	M	Lecturer	BSc Comp Sci (UDSM), MSc Comp Sci (UDSM), PhD (Heidelberg)
2.	J. Mbuke	F	Assistant Lecturer	BSc. IT (IFM), M. Eng in Computer Applied Technology (HUST, China)

## 9.9 HONORARY LECTURERS AND ADJUNCT/VISITING PROFESSORS

SCHOOL OF MEDICINE				
S/N	Name	Sex	Academic Rank	Qualifications
<b>Department of Anaesthesiology</b>				
<b>Adjunct/Honorary Lecturers</b>				
1.	M. Ulisubisya	M	Lecturer	MD, MMed (UDSM), FCTA (India) MBA (Mzumbe)
2.	R. Boniface	M	Lecturer	MD, MMed (UDSM) MSc (SA)
3.	A. Ross	F	Lecturer	MD (Cuba) MMed (UDSM)
4.	S. Laxman	M	Lecturer	MD (MUCHS) MMed (MUHAS)
5.	A. Ulimali	M	Lecturer	MD(MUCHS) MMed(MUHAS)
<b>Department of Emergency Medicine</b>				
<b>Adjunct/Honorary Lecturers</b>				
6.	J. Mfinanaga	M	Honorary Lecturer	MD, MMed (MUHAS)
7.	I. B. Kulola	F	Honorary Lecturer	MD, MMed (MUHAS)
8.	U. George	F	Honorary Lecturer	MD, MMed (MUHAS)
9.	R. Tarimo	M	Honorary Lecturer	MD, MMed (MUHAS)
10.	M. M. Biita	M	Honorary Lecturer	MD, MMed (MUHAS)
11.	C. Shari	F	Honorary Lecturer	MD, MMed (MUHAS)
12.	K. Bernard	M	Honorary Lecturer	MD, MMed (MUHAS)
13.	E. Noste	F	Honorary Lecturer	MD (UC-Davis), ABEM (USA)
14.	E. Sangey	M	Honorary Lecturer	MD, MMed (MUHAS)
15.	W. Kaihula	F	Honorary Lecturer	MD, MMed (MUHAS)
16.	P. Shao	M	Honorary Lecturer	MD, MMed (MUHAS)
17.	T. A. Reynolds	F	Adjunct Professor	MD, MSc (UCSF), PhD (Columbia), FACEP (USA)
18.	M. S. Runyon	M	Adjunct Professor	MD (Florida), MPH (UNC), FACEP (USA)
19.	B. L. Murray	F	Adjunct Assistant Professor	MD (Harvard), PEM (Boston, U.S.A)
<b>Department of Haematology and Blood Transfusion</b>				
<b>Adjunct/Honorary Lecturers</b>				
20.	M. Ally	F	Honorary lecturer	MD, MMed (MUHAS)
21.	L. Luzzato	M	Adjunct Professor	MD (Italy), FRCP (USA), FRC-Path (USA)
22.	B. Kleczka	F	Honorary lecturer	MD (Berlin)
23.	A.H. Schuh	F	Adjunct Professor	MD, PhD (Oxford), MRCP (UK), FRCPath (UK)
24.	G. Moshi	F	Adjunct Professor	MD (Australasia), FRCPA (Australasia)
25.	J. Kent	F	Honorary	BA(Oxford), MBA(Oxford) PhD

			Lecturer	(Edinburgh)
26.	M. Lyimo	F	Honorary Lecturer	MD, MMed (MUHAS), PhD (Dartmouth)
27.	E. Kimambo	F	Honorary Lecturer	MD, MMed (MUHAS)
28.	V. Tubman	F	Honorary Lecturer	MD(Pennsylvania) MSc (Harvard)
<b>Department of Internal Medicine</b>				
<b>Adjunct/Honorary Lecturers</b>				
29.	*R. Mutagaywa	M	Adjunct Lecturer	MD (UDSM), MMed, MSc (MUHAS)
30.	J. Rugemalila	F	Adjunct Lecturer	MD (KCMC), MMed, MSc (KCMC)
31.	J. Mngumi	M	Adjunct Lecturer	MD (MUHAS), MMed, MSc (MUHAS)
32.	H. Kimambo	F	Adjunct Lecturer	MD (MUHAS), MMed (MUHAS)
33.	W. Bernard	M	Adjunct Lecturer	MD (MUHAS), MMed (MUHAS)
34.	K. Khuzeima	M	Adjunct Lecturer	MD (MUHAS), MMed, MSc (MUHAS)
35.	M. Kilima	F	Adjunct Lecturer	MD (Algeria), MMed (MUHAS)
36.	J. Didi	F	Adjunct Lecturer	MD (MUHAS), MMed (MUHAS)
37.	J. Chin	M	Professor	MD (Yale), PhD (New Haven), MPH (Berkeley)
<b>Department of Microbiology and Immunology</b>				
<b>Adjunct/Honorary Lecturers</b>				
38.	T. Ueno M		Visiting Professor	BSc , MSc. PhD (Japan)
39.	S. E Rugarabamu	F	Honorary Lecturer	DDS, MSc (MUHAS)
40.	J. K. Kabanangi F		Honorary Lecturer	BSc (Manitoba,Canada) MSc (MUHAS)
<b>Department of Obstetrics and Gynaecology</b>				
<b>Adjunct/Honorary Lecturers</b>				
41.	S. Mohamed	F	Honorary Lecturer	MD (UDSM), MMed (MUHAS)
42.	M M Ngarina	F	Honorary Lecturer	MD, MMed (UDSM), PhD
<b>Department of Otorhinolaryngology</b>				
<b>Adjunct/Honorary Lecturers</b>				
43.	J. Kimario	M	Honorary Lecturer	MD (UDSM), MMed (KCMC)
44.	H. Swai	M	Honorary Lecturer	MD (MUHAS), MMed (MUHAS)
<b>Department of Paediatrics and Child Health</b>				
<b>Adjunct/Honorary Lecturers</b>				
47.	N. G. Majani	F	Honorary Lecturer	MD, MMed (WBUCHS), FCP (Israel)
48.	H. K. Mariki	F	Honorary Lecturer	MD, MMed
49.	S. J. Swanson	M	Honorary Lecturer	BSc (Child Psychol), MD (Harvard), Post Doc
50.	M. F. Mkony	F	Honorary Lecturer	MD, MMed
51.	E. S. Majaliwa	F	Honorary Lecturer	MD, MMed
52.	Z. A. Helga	F	Honorary Lecturer	MD, MMed, MSc Int. Health, MSc Sub Specialization (Neonatology and Paed. Cardiology) (German)
<b>Department of Psychiatry and Mental Health</b>				

55.	J. Mbawambo	F	Honorary Lecturer	MD (UDSM), Dip. Psych (Manchester)
56.	F. Masao	M	Honorary Lecturer	MD (UDSM), MMed (MUHAS)
57.	L. Kajula	F	Honorary Lecturer	BA (Hons) (India), MPhil (Norway), PhD (Maastricht)
58.	S. Kuganda	M	Honorary Lecturer	MD (UDSM), MMed (Makerere)
59.	P. Kaduri	F	Honorary Lecturer	MD (UDSM), MMed (MUHAS), MSc CH (Toronto)
60.	S. C. Yohani	F	Honorary Lecturer	BA, Med (Cous. Psych), PhD
61.	P. Luzatto	F	Honorary Lecturer	Laurea in Phil (Italy), M.A. Edu (NY), PhD (Nigeria), Dip. Art Therapy (UK)
62.	F. C. Ngakongwa	F	Honorary Lecturer	MD (UDSM), MMed (Stellenbosch), FC Psych (SA)
63.	F L. Benedict	M	Honorary Lecturer	MD (MUHAS), MMed (MUHAS)
64.	L. R. Mgopa	F	Honorary Lecturer	MD (MUHAS), MMed (MUHAS)
65.	E. E. Mdeme	M	Honorary Lecturer	MD (UDSM), MMed (MUHAS)
66.	I. Mwombeki	M	Honorary Lecturer	MD (MUHAS), MMed (MUHAS)
67.	G. P. Simbee	F	Honorary Lecturer	MD (MUHAS), MMed (MUHAS)
68.	O. Ubuguyu	M	Honorary Lecturer	MD (UDSM), MMed (MUHAS)
69.	J. P. Swai	M	Honorary Lecturer	Dip. Clin Med (Hai), BA Counselling (Iringa), MSc.CP (MUHAS)
70.	J. Raymond	F	Honorary Lecturer	MD (MUHAS), MMed (MUHAS)
71.	I. Haruna	M	Honorary Lecturer	MD (UDSM), MMed (MUHAS)
<b>Department of Radiology and Imaging</b>				
<b>Adjunct/Honorary Lecturers</b>				
72.	R. Iramu		Honorary Lecturer	MD, MMed (MUHAS)
73.	F. Minja		Honorary Lecturer	MD, Neuroradiology Fellow
74.	F. Lyimo		Honorary Lecturer	MD/MMed (MUHAS)
75.	H. Makungu		Honorary Lecturer	MD, MMed (MUHAS)
76.	M. Mango		Honorary Lecturer	MD(UDSM), MMed (Nairobi)
77.	I. Mhalu		Honorary Lecturer	MD, MMed(MUHAS)
<b>Department of Surgery</b>				
<b>Adjunct/Honorary Lecturers</b>				
78.	R. Nyamsogoro	M	Honorary Lecturer	MD, MMed
79.	E. Wayi	M	Honorary Lecturer	MD, MMed, Fellowship in Plastic Surgery
80.	J. Rwanyuma	M	Honorary	MD, MMed, Fellowship in Plastic

			Lecturer	Surgery
81.	G. Mchele	M	Honorary Lecturer	MD, MMed, MSc
82.	K. Kitembo	M	Honorary Lecturer	MD, MMed, MSc
83.	Y. Ringo	M	Honorary Lecturer	MD, MMed, MSc
84.	J. Giraf	F	Honorary Lecturer	MD, MMed
85.	G. Mtaturu	M	Honorary Lecturer	MD, MMed, MSc
86.	N. Kimu	M	Honorary Lecturer	MD, MMed, MSc
87.	V. Sensa	M	Honorary Lecturer	MD, MMed
88.	S. Kaali	M	Honorary Lecturer	MD, MMed, MSc
89.	P. Ngiloi	F	Honorary Lecturer	MD, MMed, Fellowship in Plastic Surgery
90.	M. Makia	F	Honorary Lecturer	MD, MMed
91.	D. Mahenda	M	Honorary Lecturer	MD, MMed
92.	M. Sultan	M	Honorary Lecturer	MD, MMed
93.	A. Swallow	M	Honorary Lecturer	MD, MMed
94.	M. D. Mchembe	M	Honorary Lecturer	MD, MMed
95.	E. Mkongo	M	Honorary Lecturer	MD, MMed, MSc
<b>SCHOOL OF MEDICINE</b>				
<b>Part-Time Lecturer</b>				
1.	F. Mugusi	M	Professor	MD, MMed (UDSM)
2.	H. A. Mwakyoma	M	Senior Lecturer	MD, MSc, MMed (UDSM)
3.	J. N. Kitinya	M	Professor	MBChB (Makerere), MMed (UDSM), Cert. Microscopy, DMed Sci (Kyushu), FCPATH (ECSA)
4.	R. I. Mhina	M	Senior Lecturer	MD, MMed, MSc (UDSM)
5.	H. N. Mgaya	M	Professor	MB ChB (EA), MMed (UDSM)
6.	N. H. Moshi	M	Professor	MD, MMed, MSc (UDSM)
7.	W. B. P. Matuja	M	Professor	MB ChB (Makerere), MRC (Psych) (UK)
8.	T. K. Kazimoto	F	Senior Lecturer	MD, MMed (UDSM)
9.	E. M. Munubhi	M	Senior Lecturer	MD, MMed (UDSM)
10.	A. W. Massawe	M	Senior Lecturer	MD, MMed (UDSM)
11.	E. F. Lyamuya	M	Professor	MD, MMed (UDSM), PhD (Karolinska)
12.	E. E. Maro	M	Associate Professor	MD, MMed (UDSM)
13.	C. M. A. Yongolo	M	Associate Professor	MD, MMed (UDSM), MSc (Tumaini)
14.	M. M. Aboud	M	Associate Professor	MD, MMed (UDSM), MMed Res. (Brussels), MSc (Tumaini)



SCHOOL OF DENTISTRY				
Part-time Lecturers				
1.	G. J. Mandari	M	Senior Lecturer	DDS (UDSM), MDent (UDSM)
2.	P. T. N. Sarita	M	Lecturer	DDS (UDSM), PhD (Nijmegen)
3.	F. M. Shubi	M	Senior Lecturer	MD (Stomat), MSc, PhD (USSR)
4.	B. M. Kalyanyama	M	Senior Lecturer	DDS (UDSM), MSc, PhD (USSR)
5.	B. S. Lembariti	M	Associate Professor	DMD (Hungary), MSc (UDSM), Cert. in Periodontology (Groningen), PhD (UDSM)
Honorary Lecturers				
1.	A. Mwakatobe	M	Orthodontics, Paedodontics and Community Dentistry	DDS (Voronezh, Russia), MPH (Tokyo), MDS (Nizh- nynovgorod, Russia)
2.	J. W. Nyerere	M	Restorative Dentistry	DDS (Budapest), MDent (UDSM)
3.	C. Kayombo	F	Restorative Dentistry	DDS (MUHAS), MDent (PRC)
4.	P. Shempemba	M	Restorative Dentistry	DDS, MDent (MUHAS)
5.	D. Kilasara	M	Restorative Dentistry	DDS, MDent (MUHAS)
6.	J. Tungaraza	M	Orthodontics Paedodontics and Community Dentistry	DDS, MDent (MUHAS)
7.	V. Vedasto	M	Orthodontics Paedodontics and Community Dentistry	DDS, MDent (MUHAS)
8.	T. H. Mituro	M	Orthodontics Paedodontics and Community Dentistry	DDS, MDent (MUHAS)
SCHOOL OF NURSING				
Honorary Lecturers				
1.	M. A. Moses	M	Clinical Nursing	BScN (KCMUCo), MSc. Critical Care and Trauma (MUHAS).
2.	A. N. Kingu	M	Clinical Nursing	BScN (Aghakan University), MSc. Critical Care and Trauma (MUHAS)
3.	S. E. Kisakeni	M	Clinical Nursing	BScN (MUHAS), MSc. Critical Care and Trauma (MUHAS)
4.	N. P. Marwa	F	Clinical Nursing	BScN (UDSM), MSc. Critical Care and Trauma (MUHAS)
5.	M. W. Obogo	M	Clinical Nursing	BScN (UDSM), MSc. Critical Care and Trauma (MUHAS)
6.	R. A. Mallya	M	Clinical Nursing	BScN (UDSM) MSc. Critical Care and Trauma (MUHAS)

7.	H. M Hajji	M	Clinical Nursing	BScN (MUHAS), MSc. Critical Care and Trauma (MUHAS)
8.	T. E. Mwansisya	M	Clinical Nursing and Nursing Management	BScN (UDSM), MSc. Nursing Mental Health (MUHAS), MBA (UDSM), PhD- Psychiatry Neuroimaging (Archieves of Central South University, CHINA).
<b>SCHOOL OF PHARMACY</b>				
<b>Part-time Lecturers</b>				
1.	R. S. Malele	M	Associate Professor	BPharm (UDSM), PhD (Bradford)
2.	W. M. Kalala	M	Lecturer	BPharm (UDSM), Pharm Dipl. (Manchester), MSc (KULEuven), PhD (MUHAS)
3.	M. Justin-Temu	F	Professor	BPharm (UDSM), MSc, PhD (KULEuven)
4.	C. Nshimo	M	Associate Professor	MSc Pharmacy (Romania), MSc Pharm. Sci. (Wales), PhD (Chicago)
<b>Adjunct/Honorary Lecturers</b>				
6.	D.C. Buma	M	Pharmaceutics	BPharm (UDSM), MPharm (MUHAS)
7.	A. B. Mtenga	F	Pharmaceutics	BPharm (Chennai), MSc Med Micr (London), PhD (GNU S. Korea).
8.	D. H. Shewiyo	M	Pharmaceutics	BPharm (UDSM), MPharm Sci (Ghent), PhD (Brussels)
9.	A. Nkayamba	M	Clinical Pharmacy and Pharmacology	MD MUHAS. MSc Public Health (MUHAS)
10.	J. Lixia	M	Clinical Pharmacy and Pharmacology	MD (WMU), PhD (PUMC)
11.	A. Mususa	F	Clinical Pharmacy and Pharmacology	BPharm (UDSM), MSc Public Health (MUHAS)
12.	O. Mpanju	M	Pharmaceutics	BPharm (UDSM), PhD (Brussels)
<b>SCHOOL OF PUBLIC HEALTH AND SOCIAL SCIENCES</b>				
<b>Part-time Lecturers</b>				
1.	J. Z. J. Killewo	M	Professor	MB ChB (EA), DPH (UDSM), MSc (London), PhD (Umea)
2.	K. S. Mnyika	M	Associate Professor	MD, MSc (UDSM), PhD (Bergen)
3.	I. A. J. Semali	M	Senior Lecturer	MD, DPH (UDSM), MSc (London), PhD (Basel)
4.	M. T. Leshabari	M	Professor	BSc, MA (UDSM), Dr. Sc. (John Hopkins)
5.	A.D. Kiwara	M	Associate Professor	MD, MA (UDSM) MA (CompSOc), PhD (Connectcut)

6.	L. M. B. Rongo	M	Senior Lecturer	BSc (Eng) (UDSM), Dipl. in San. Eng. (Delft), PhD (Nijmegen)
7.	A. V. F. Ngowi	F	Senior Lecturer	BSc (UDSM), MSc (OHS) (UK), PhD (Tampere Finland)
8.	M. A. Mwangi	M	Senior Lecturer	BA (Ed.), MA, PhD (UDSM)
<b>Adjunct/honorary/Visiting staff</b>				
1.	Michael J Sullivan	M	Adjunct Professor	BSc (University of California), MSc (University of Michigan), PhD (University of Michigan), CIH, REHS Calif/USA)
2.	E. J. Mmbaga	M	Adjunct Professor	MD (UDSM), MPhil (Oslo), PhD (Oslo), Post Doc (Harvard)
3.	G. H. Leyna	F	Adjunct Lecturer	MD (UDSM), MPhil (Oslo), PhD (Oslo), Post Doc (Harvard)
4.	M. Sichali	F	Honorary Lecturer	BSc. (Copperbelt University), MSc. (University of Leuven)
5.	W. Odek	M	Honorary Lecturer	BEd, MSc (London), PhD (Aberdeen)
6.	J. R. Mwanga	M	Honorary Lecturer	BA (UDSM), MSc (London), PhD (Denmark)
7.	S. Mfinanga	M	Honorary Lecturer	MD (UDSM), PhD (Bergen)
8.	F. Mhimbira	M	Honorary Lecturer	MD (UDSM), MSc (Melbourne), PhD (Basel)
9.	J. Mghamba	F	Honorary Lecturer	MD (UDSM), MSc (JKUA), MSc (Witwatersrand)
10.	G. PrayGod	M	Honorary Lecturer	MD (UDSM), MSc (Witwatersrand), PhD (Copenhagen)
11.	R. Kishimba	M	Honorary Lecturer	MD (MUHAS), MSc (MUHAS)
12.	J. Francis	M	Honorary Lecturer	MD (UDSM), MSc (Harvard), PhD (London)
13.	R. Mwaiswelo	M	Honorary Lecturer	DDS (MUHAS), MSc TDC (MUHAS), PhD (Karolinska)
14.	B. Emidi	F	Honorary Lecturer	BSc (KCMUCo), MSc (UDSM), PhD (UDSM)
15.	V. Nyasembe	M	Honorary Lecturer	BSc (Egerton), PhD (Pretoria)
16.	R. D. R. Dinglasan	M	Honorary Lecturer	BA (Virginia), MPH (Yale), MPhil (Yale), PhD (Maryland)
17.	C. Mweya	M	Honorary Lecturer	BSc (UDSM), MSc (KCMUCo), PhD (SUA)
18.	S. Khamadi	M	Honorary Lecturer	BSc (JKU), MSc (Nairobi), MPH (Liverpool), MBA (Cumbria), PhD (Jomo Kenyatta)
19.	S. Kinunghi	M	Honorary Lecturer	BVM (SUA), MSc (Free University of Berlin/Addis

				Ababa), PhD (Copenhagen)
20.	H. Mazigo	M	Honorary Lecturer	BVM (SUA), MSc (Jomo Kenyatta), MPH (CUHAS), PhD (Makerere/Cambridge)
21.	L. B. Mlunde	F	Honorary Lecturer	MD (MUHAS), MSc, PhD (Tokyo)
22.	M. A. Mohamed	M	Honorary Lecturer	MD, MPH (UDSM), MSc (JKUAT)
<b>Visiting Lecturers</b>				
1.	Lisa Purvis	F	Bioethics (Visiting Lecturer)	MBA (North Carolina), MPH (John Hopkins),
2.	J. F. Merz	M	Bioethics (Visiting Professor)	BS (NY), JD (Pittsburgh), MBA (Florida), PhD (Pitts- burgh)
3.	R. D. Wadell	M	Bioethics (Visiting Professor)	BA (NC), MSc (New England), DSc (Rotterdam)
4.	C. M. Frishko- Ulrich	F	Bioethics (Visiting Professor)	MSc N (Washington DC), PhD (Maryland).
<b>INSTITUTE OF TRADITIONAL MEDICINE</b>				
<b>Part-time Researchers</b>				
1.	R. Mahunnah	M	Associate Research Professor	Dipl. Ed, BSc, MSc, PhD (UDSM)
2.	E. J. Kayombo	M	Research Fellow	Dipl. Ed, BEd, MA (UDSM), PhD (Vienna)

## CHAPTER TEN: ACADEMIC PRIZES

### 10.1 SCHOOL OF MEDICINE

S/N	PRIZE	AWARDING AUTHORITY	DESCRIPTION	AMOUNT (TZS)
1.	MUHAS Prize	MUHAS	Best final year MMed student in Anaesthesiology	100,000
2.	MUHAS Prize	MUHAS	Best final year MMed students in Anatomical Pathology	100,000
3.	MUHAS Prize	MUHAS	Best final year MMed students in Emergency Medicine	100,000
4.	MUHAS Prize	MUHAS	Best final year MMed student in Haematology	100,000
5.	MUHAS Prize	MUHAS	Best final year MMed student in Internal Medicine	100,000
6.	MUHAS Prize	MUHAS	Best final year MMed student in Microbiology and Immunology	100,000
7.	MUHAS Prize	MUHAS	Best final year MMed student in Obstetrics and Gynaecology	100,000
8.	MUHAS Prize	MUHAS	Best final year MMed student in Ophthalmology	100,000

S/N	PRIZE	AWARDING AUTHORITY	DESCRIPTION	AMOUNT (TZS)
9.	MUHAS Prize	MUHAS	Best final year MMed student in Orthopaedics and Traumatology	100,000
10.	MUHAS Prize	MUHAS	Best final year MMed student in Otorhinolaryngology	100,000
11.	MUHAS Prize	MUHAS	Best final year MMed Student in Paediatrics	100,000
12.	MUHAS Prize	MUHAS	Best final year MMed student in Psychiatry	100,000
13.	MUHAS Prize	MUHAS	Best final year MMed student in Surgery	100,000
14.	Hubert Kairuki Prize	Medical Association of Tanzania	Best final year MMed student in Obstetrics and Gynaecology	100,000
15.	MUHAS Prize	MUHAS	Best final year MMed student in Radiology	100,000
16.	MUHAS Prize	MUHAS	Best final year MMed student in Urology	100,000
17.	MUHAS Prize	MUHAS	Best final year student in MMed Clinical Oncology	100,000
18.	Prof. Victor Mwafongo Prize	Prof. Victor Mwafongo	Best final year student in MMed Emergency Medicine	USD 100
19.	Dr. Alurn Andrew Mziray Memorial Prize	Prof. Michael Runyon	Final year MMed Emergency Medicine student with highest standard of clinical practice	100,000
20.	African Federation of Emergency Medicine Price	Africam Federation of Emergency Medicine	Best final year student in Emergency Medicine	USD 200
21.	Dr. Josephine Rweikiza Memorial Prize	Prof. S. Kaaya	Best first year MMed Psychiatry student	100,000
<b>MSc Programme</b>				
22.	MUHAS Prize	MUHAS	Best final Year MSc Student in Anatomy	100,000
23.	MUHAS Prize	MUHAS	Best final Year MSc Student in Biochemistry	100,000
24.	MUHAS Prize	MUHAS	Best final Year MSc Student in Clinical Pharmacology	100,000
25.	MUHAS Prize	MUHAS	Best final Year MSc Student in Clinical Psychology	100,000
26.	Prof. John Hall Prize	Prof. John Hall	Best final Year MSc Clinical Psychology in Research	100,000
27.	MUHAS Prize	MUHAS	Best final Year MSc Student in Microbiology and Immunology	100,000
<b>MScSS Programme</b>				
28.	MUHAS Prize	MUHAS	Best final Year MSc Student in Cardiology	100,000

S/N	PRIZE	AWARDING AUTHORITY	DESCRIPTION	AMOUNT (TZS)
29.	MUHAS Prize	MUHAS	Best final year MSc Student in Gastroenterology and Hepatology	100,000
30.	MUHAS Prize	MUHAS	Best final year MSc Student in Surgical Gastroenterology and Hepatology	100,000
31.	MUHAS Prize	MUHAS	Best final Year MSc Super Specialty Student in Neurology	100,000
32.	MUHAS Prize	MUHAS	Best final Year MSc Student in Neurosurgery	100,000
33.	MUHAS Prize	MUHAS	Best final Year MSc Student in Nephrology	100,000
34	MUHAS Prize	MUHAS	Best final Year MSc Student in Respiratory Medicine	100,000
35.	MUHAS Prize	MUHAS	Best final Year MSc Student in Paediatric Haematology and Oncology	100,000

## 10.2 SCHOOL OF DENTISTRY

S/N	PRIZE	AWARDING AUTHORITY	DESCRIPTION	AMOUNT (TZS)
1.	University Prize	MUHAS	Best final year M.Dent student in Paediatric Dentistry	100,000.00
2.	University Prize	MUHAS	Best final year M.Dent students in Restorative Dentistry	100,000.00
3.	University Prize	MUHAS	Best final year M.Dent student in Community Dentistry	100,000.00
4.	University Prize	MUHAS	Best final year M.Dent student in Oral and Maxillofacial Surgery	100,000.00
5.	Stoelinger Prize	Dr. E. N. Simon	Best final year M.Dent student in Oral and Maxillofacial Surgery	100,000.00
6.	CN Pharmacy Prize	CN Pharmacy	Best final year M.Dent student in Oral and Maxillofacial Surgery	200,000.00

## 10.3 SCHOOL OF PHARMACY

S/N	PRIZE	AWARDING AUTHORITY	DESCRIPTION	AMOUNT (TZS)
1.	University Prize	MUHAS	Best final year MSc student in Pharmaceutical Management	100,000.00
2.	University Prize	MUHAS	Best final year MPharm student in Hospital & Clinical Pharmacy	100,000.00
3.	University Prize	MUHAS	Best final year MPharm Student in Industrial Pharmacy	100,000.00

4.	University Prize	MUHAS	Best final year MPharm student in Medicinal Chemistry	100,000.00
5.	University Prize	MUHAS	Best final year MPharm student in Pharmaceutical Microbiology	100,000.00
6.	University Prize	MUHAS	Best final year MPharm student in Pharmacognosy	100,000.00
7.	University Prize	MUHAS	Best final year MPharm student in Quality Control & Quality Assurance	100,000.00
8.	Action Medeor Prize	Action Medeor	Best final year MPharm student in Quality Assurance & Quality Control	300,000.00

#### 10.4 SCHOOL OF NURSING

S/N	PRIZE	AWARDING AUTHORITY	DESCRIPTION	AMOUNT (TZS)
1.	University Prize	MUHAS	Best Final Year Student in MSc. Nursing Critical Care and Trauma	100,000/=
2.	University Prize	MUHAS	Best Final Year Student in MSc. Nursing Mental Health	100,000/=
3.	Davidson-Hooker Graduate Award	Dr Anne Outwater	Best student in Nursing Research (Master)	150,000 & A Research Book
4	Dr. Thekla W. Kohi Graduate award	Dr. Thekla W. Kohi	Highest GPA in MSc Nursing Mental Health	100,000/=
5	Dr. Thekla W. Kohi Graduate award	Dr. Thekla W. Kohi	Highest GPA in MSc Nursing Critical Care and Trauma	100,000/=

#### 10.5 SCHOOL OF PUBLIC HEALTH AND SOCIAL SCIENCES

S/N	NAME OF PRIZE	AWARDING AUTHORITY	DESCRIPTION	AMOUNT (TZS)
1.	University Prize	MUHAS	Overall Best Final year Student in Master of Public Health	100,000
2.	University Prize	MUHAS	Overall Best Final year Student in MA Health Policy & Management	100,000
3.	University Prize	MUHAS	Overall Best Final year Student in MSc Tropical Disease Control	100,000

4.	University Prize	MUHAS	Overall Best Final year Student in MSc Parasitology and Medical Entomology	100,000
5.	University Prize	MUHAS	Overall Best Final year Student in MSc Applied Epidemiology	100,000
6.	University Prize	MUHAS	Overall Best Final year Student in MSc Epidemiology and Laboratory Management	100,000
7.	University Prize	MUHAS	Overall Best Final year Student in MMed Community Health	100,000
8.	Dean's Prize	Dean, SPHSS	Overall Best Final year student across all Master programmes in the SPHSS	100,000

#### 10.6 INSTITUTE OF TRADITIONAL MEDICINE

S/N	PRIZE	AWARDING AUTHORITY	DESCRIPTION	AMOUNT TZS
1.	University Prize	MUHAS	Best Final Year Student	100,000/=
3.	NIMR Prize	National Institute of Medical Research	Best final year student with highest score in dissertation	150,000/=