

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



## **COMPETENCY BASED PROGRAMMES UNDERGRADUATE PROSPECTUS 2021/2022 – 2022/2023**



*The 12<sup>th</sup> MUHAS Graduation ceremony: December 1, 2018 at MUHAS Graduation Square.*



*Royal, happy and proud MUHAS academic staff from various Schools ready for the 12<sup>th</sup> MUHAS Graduation ceremony, December 1, 2018.*

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## VICE CHANCELLOR'S STATEMENT

I am delighted to introduce the undergraduate education prospectus for the academic period 2021/2022 – 2022/2023. This prospectus provides a synopsis of diverse undergraduate academic programmes for Health and Allied Sciences offered by the different academic units of the University as well as key information that is intended to guide prospective and registered

students of MUHAS for competency-based education. Your attention is drawn to the strong emphasis given to competence building and training in professionalism in each programme of study. The overarching goal is to train highly competent graduates equipped with the requisite competencies and professional attributes for ethical conduct and practice in health care delivery at national, regional or global levels.

Since its establishment as a higher learning institution more than 50 years ago the growth and development of this institution has been quite remarkable. It is regarded as a premier Institution in health sciences mainly because of its demand-driven health-related competency-based programmes and good track record of the graduates. This prospectus outlines each undergraduate programme and explains the criteria for student eligibility, examination rules and regulations and other special academic requirements for the competency-based education.

MUHAS currently offers 15 diploma programmes, 1 advanced Diploma programme and 16 undergraduate programs to over 3,000 students who get unique opportunity to study at our institution. In this prospectus we introduce additional two new programmes. These include Bachelor of Biomedical Engineering that is co-hosted by the School of Medicine at MUHAS and Mbeya University of Science and Technology; and the re-introduced Bachelor of Science Midwifery in the School of Nursing. A total of 426 highly trained and experienced faculty in five Schools and two institutes administer the various academic programmes shown in this prospectus. MUHAS also prides itself in twelve directorates, which carry out various functions and coordinate activities aimed at enabling MUHAS to implement its core functions of teaching, research and public service.





The University library is a leading medical and health sciences library in the country. Currently it has 75,315 book copies on a variety of health-related disciplines. MUHAS ICT Network allows users to access a variety of online reputable journals. The library is solar powered and has a 24-hour reading room, discussion and computer rooms.

The strategic location of the Muhimbili campus at MUHAS, about one kilometer from the Dar es Salaam City Centre, the commercial capital of Tanzania, offers an intellectually stimulating environment coupled with rich cultural, social, and sporting life. Proximity to other highly reputable public and private higher learning institutions also provides multiple opportunities for peer interaction, which is both academically and socially beneficial to student`s life.

MUHAS continues with its plans to develop a new campus in a 3800 acres land at Mloganzila, Kibamba, about 25 km from Dar es Salaam city. The construction of the multipurpose building for the Centre of Excellence in Cardiovascular Sciences is at final stages of completion. This facility will provide the much-needed space and facilities to support training and research in cardiovascular sciences. Construction of other academic and support facilities including lecture theaters, cafeteria, students` hostels, laboratories and library is ongoing. These and other planned facilities will provide additional teaching and research infrastructure and therefore support effective teaching and learning at MUHAS.

The Vision of MUHAS is *“A premier University excelling in education of professionals for health, innovative research, consultancy and health care services in Tanzania and beyond”*.

It is my hope that you will find this prospectus resourceful and use it to guide you and plan your activities while at MUHAS. It is my pleasure to welcome you to this University and encourage prospective candidates to make the necessary preparations that will enable them to make the right choice and join MUHAS in future.

**Prof. A. B. Pembe**  
**Vice Chancellor**

**Muhimbili University of Health and Allied Sciences**  
**July 2019**

## SENIOR OFFICERS OF THE UNIVERSITY

### ***Chancellor Muhimbili University of Health and Allied Sciences***

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

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

Hon. Dr. Harrison G. Mwakyembe, Diploma (TSJ), LL.B (Hons) (UDSM), LL.M (UDSM), LL.M (Magister Legum) (Hamburg), PhD (Hamburg), PG Dip. (University of Turin)

### ***Vice Chancellor Muhimbili University of Health and Allied Sciences***

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### ***Deputy Vice Chancellor - Planning, Finance and Administration***

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## DEANS OF SCHOOLS

### ***School of Medicine***

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### ***School of Dentistry***

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*This prospectus is published to guide undergraduate students in the University during the academic year 2021/2022 – 2022/2023. 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). MUCHS was established through an Act No 9 of 1991, by upgrading the then Faculty of Medicine. The Faculty of Medicine started as the Dar es Salaam School of Medicine, established in 1963 by the Ministry of Health with the primary aim of training Clinical Officers. In 1968, the School was upgraded to a Faculty of Medicine of the Dar es Salaam University College of the University of East Africa and in 1970 Faculty of Medicine of the University of Dar es Salaam. In 1976 the Faculty of Medicine, academically belonging to the University of Dar es Salaam was administratively incorporated into Muhimbili Hospital to form the Muhimbili Medical Centre (MMC).

The Faculty of Medicine was then upgraded to a constituent College of the University of Dar es Salaam in 1991, with the aim of nurturing it to a full-fledged University. By an Act of Parliament MMC was disestablished in 2000 to create two closely linked but autonomous public institutions; namely MUCHS and the Muhimbili National Hospital (MNH). The Parliament Act No 9 of 1991 that established MUCHS was repealed in 2005. Subsequently, in 2007, MUHAS was established in line with the Universities Act No 7 of 2005.

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 objects, the nurturing of the intellectual, aesthetic, social and moral growth of the students.

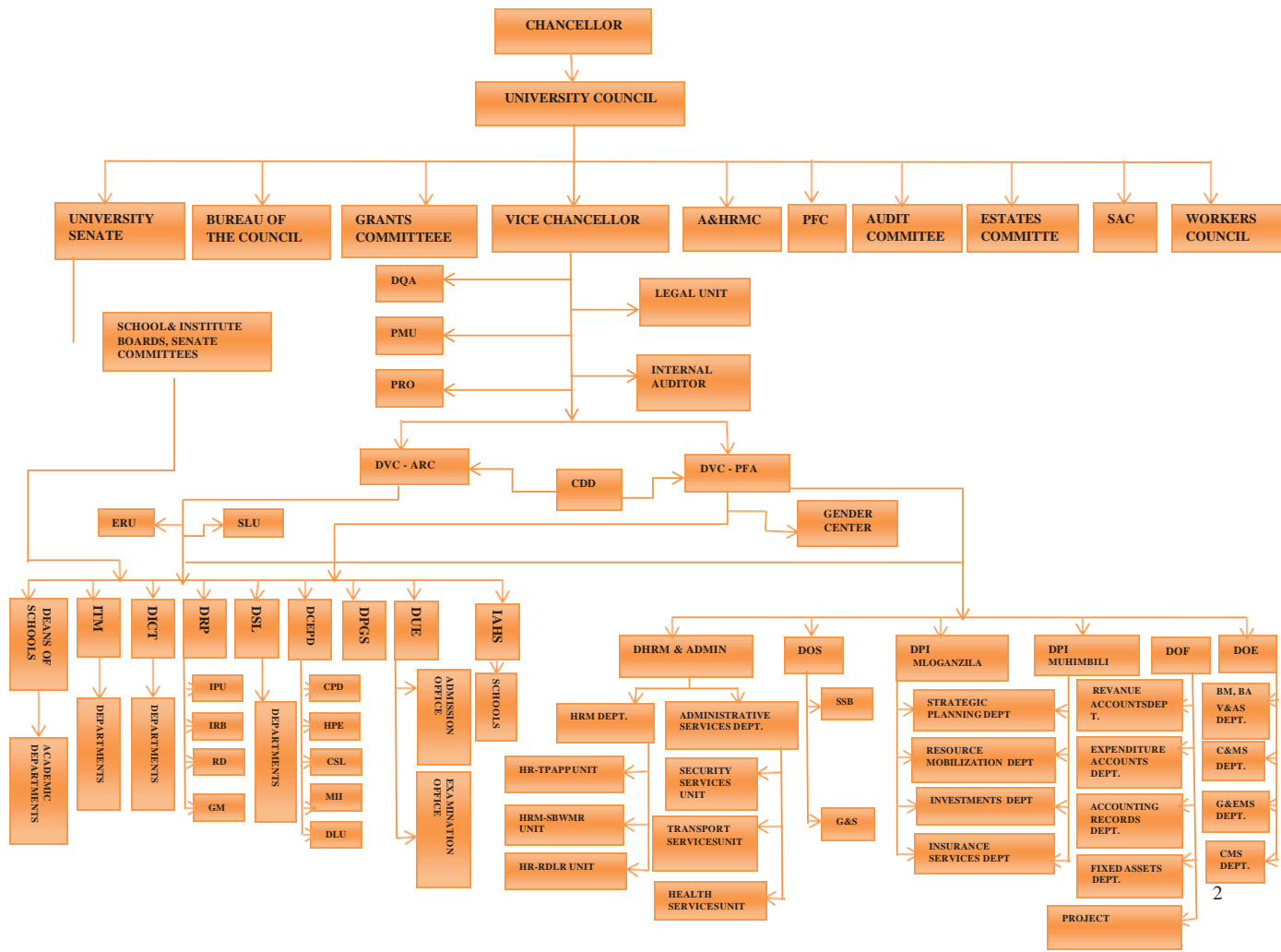
The University has two campuses; Muhimbili Campus and Mloganzila Campus. Muhimbili Campus is situated in Ilala Municipality, in Upanga, 9 United Nations Road. Mloganzila Campus is still new and in the process of development. It occupies 3,800 acres and is located 3 km off Dar es Salaam-Morogoro highway, 25 km from Dar es Salaam City Center. MUHAS has other facilities including, the Bagamoyo Teaching Unit at Bagamoyo and Kihonda, 8 km from Morogoro Municipality along Morogoro-Dodoma road. The two facilities are used for fieldwork during Community rotations and other research activities.



MUHAS has 104 programmes in biomedical, clinical and allied health sciences. These programmes are taught in the five Schools and one Institute; 6 are diploma programmes (with regular and evening programmes), 1 Advanced Diploma, and 16 Undergraduate Degree programmes. Postgraduate programmes include 81 Master and PhD degree programmes as well as postdoctoral fellowships. Three Diploma programmes namely, Diploma in Nursing, Diploma in Pharmaceutical Sciences and Diploma in Medical laboratory Sciences are phasing out. This prospectus provides guidance to all diploma and undergraduate students. A separate prospectus is available for postgraduate studies. An abbreviated description of the programmes is presented in the prospectus under the respective academic units and detailed in the individual curricula available in the Schools and Institutes. The office of 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, financial and administrative matters. The Directorates of Information Communication and Technology (ICT) and Library Services provide crosscutting support to all University units in information management.



## 1.1.2 MUHAS ORGANISATION STRUCTURE



## **1.2 LIST OF UNDERGRADUATE ACADEMIC PROGRAMMES OFFERED AT MUHAS**

### **1.2.1 SCHOOL OF MEDICINE**

- (i) MH011: Doctor of Medicine (MD)
- (ii) MH008: Bachelor of Science in Diagnostic and Therapeutic Radiography (BSc RAD)
- (iii) MH013: Bachelor of Medical Laboratory Sciences (BMLS)
- (iv) MH014: Bachelor of Biomedical Engineering (BBME)
- (v) MH016: Bachelor of Science in Physiotherapy (BSc Physiotherapy)

### **1.2.2 SCHOOL OF DENTISTRY**

- (i) MH010: Doctor of Dental Surgery (DDS)

### **1.2.3 SCHOOL OF PHARMACY**

- (i) MH001: Bachelor of Pharmacy (B.Pharm)

### **1.2.4 SCHOOL OF NURSING**

- (i) MH009: Bachelor of Science in Nursing (BScN)
- (ii) MH012: Bachelor of Science in Midwifery (BScM)
- (iii) MH015: Bachelor of Science in Nurse Anesthesia (BScNA)

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

MH007: Bachelor of Science in Environmental Health (BSc. Env. Health)

### **1.2.6 INSTITUTE OF ALLIED HEALTHSCIENCES**

#### **Diploma Programmes**

- (i) Diploma in Environmental Health Sciences (DEHS)
- (ii) Diploma in Diagnostic Radiography (DDR)
- (iii) Diploma in Orthopaedic Technology (DOT)

#### **Advanced Diploma Programmes**

- (i) Advanced Diploma in Dermatovenereology (ADDV)





*A group photograph during the 3<sup>rd</sup> MUHAS Convocation Symposium that took place on 29<sup>th</sup> November 2018 at MUHAS.*

## 1.2.9 APPLICATION PROCEDURES

### 1.2.9.1 UNDERGRADUATE PROGRAMMES

(i) **Applicants with A- Level Qualifications (Direct Entry scheme):**  
Applicants with A- Level qualifications (direct entry scheme) and applicants who hold foreign A – Level Certificates should apply for the degree courses through the Muhimbili University of Health and Allied Sciences (MUHAS) online Application Portal available on the website [www.muhas.ac.tz](http://www.muhas.ac.tz).

(ii) **Applicants with Equivalent Qualifications:**

Applicants under equivalent qualifications should also apply through the Muhimbili University of Health and Allied Sciences (MUHAS) online Application Portal through the website [www.muhas.ac.tz](http://www.muhas.ac.tz). However, before application they must first contact NECTA (applicants with foreign certificates) or NACTE (applicants with diploma certificates) to verify their certificates before initiating the application process on the MUHAS website.

## 1.3 ENTRY REQUIREMENTS FOR UNDERGRADUATE PROGRAMMES

The minimum entry requirement into this University for undergraduate

programmes is three principal passes in Biology, Chemistry and Physics as described below for each of the programmes offered.

### **1.3.1. School of Medicine**

#### **1.3.1.1. Doctor of Medicine (MD)- MH011**

##### **1.3.1.2. Admission/ Entry Requirements**

###### ***Direct Entry***

Three principal passes in Physics, Chemistry and Biology with a minimum of 6 points: a minimum of D grade in Chemistry, Biology and Physics.

###### ***Equivalent Qualifications***

Diploma in Clinical Medicine with an average of “B” or a minimum GPA of 3.0. In addition, an applicant must have a minimum of “D” grade in any five (5) non religious subjects at O-Level.

#### **1.3.1.3. Bachelor of Medical Laboratory Sciences (BMLS)**

##### **1.3.1.4. Admission/ Entry Requirements for BMLS Programme**

###### ***Direct Entry***

Three principal passes at D grade or higher in Chemistry, Biology, and Physics, with preference to applicants with C grade or above in Chemistry or Biology in that order OR Candidates with E in physics/mathematics at “A” level provided they have a C grade or above in Chemistry and/or Biology.

###### ***Equivalent Qualifications***

Five passes in CSEE as above , and holders of appropriate Diploma and or Advanced Diploma in Health Laboratory Sciences with an overall “B” grade and GPA above 3.5 with Credit passes in Physics, Chemistry or Biology at “O” as added advantage

#### **1.3.1.5. Bachelor of Science in Diagnostic and Therapeutic Radiography (BSc RAD)- MH008**

##### **1.3.1.6. Admission/ Entry Requirements**

###### ***Direct Entry***

Three principal passes in Physics, Chemistry and Biology with minimum of 6 points. A minimum of C grade in Chemistry and D grade in Biology and at least E grade in Physics.

###### ***Equivalent Qualifications***



Diploma in Radiology with an average of “B” or a minimum GPA of 3.0. In addition, an applicant must have a minimum of “D” grade in any five (5) non religious subjects at O-Level.

### **1.3.1.7. Bachelor of Biomedical Engineering (BBME) - MH014**

#### **1.3.1.8. Admission/ Entry Requirements**

##### ***Direct Entry***

Three principal passes in Physics, Chemistry and Advanced Mathematics with a minimum of 8 points: a minimum of C grade in Advanced Mathematics and Physics and a minimum of D grade in Chemistry. In addition, an applicant must have a minimum of C grade in Biology at O-Level.

##### ***Equivalent Qualifications***

Diploma or Advanced Diploma in Biomedical, Electrical, Electronics and Telecommunication, Mechatronics, Mechanical Engineering or Computer Science with an average of “B+” or a minimum GPA of 3.5. In addition, an applicant must have a minimum of “D” grade in any five (5) non religious subjects at O-Level.

### **1.3.1.9. Bachelor of Science in Physiotherapy (BSc Physiotherapy)**

#### **1.3.1.10. Admission/ Entry Requirements**

##### ***Direct Entry***

Principal pass at “C” grade or Higher in Physics, Chemistry and Biology at “A” level

##### ***Equivalent Qualifications***

Holder of Diploma in physiotherapy, Nursing, Clinical Medicine, Occupational Therapy or equivalent and with GPA of 3.5 or B grade AND three credits in Physics, Chemistry and Biology at “O” level.

### **1.1.1. School of Dentistry**

#### **1.1.1.1. Doctor of Dental Surgery (DDS)- MH010**

#### **1.1.1.2. Admission / Entry Requirements**

##### ***Direct Entry***

Three principal passes in Physics, Chemistry and Biology with a minimum of 6 points: a minimum of D grade in Chemistry, Biology and Physics..

##### ***Equivalent Qualifications***

Diploma in Dental Health Sciences with an average of “B” or a minimum GPA of 3.0. In addition, an applicant must have a minimum of “D” grade in any five (5) non religious subjects at O-Level.

### **1.1.2. School of Pharmacy**

#### **1.1.2.1. Bachelor of Pharmacy (BPharm)-MH001**

#### **1.1.2.2. Admission/ Entry**

#### **Requirements**

##### ***Direct Entry***

Three principal passes in Physics, Chemistry and Biology with a minimum of 6 points. A minimum of D grade in Chemistry, Biology and Physics.

##### ***Equivalent Qualifications***

Diploma in Pharmaceutical Sciences with an average of “B” or a minimum GPA of 3.0. In addition, an applicant must have a minimum of “D” grade in any five (5) non religious subjects at O-Level.

### **1.1.3. School of Nursing**

#### **1.1.3.1. Bachelor of Science in Nursing (BSc N)-MH009**

#### **1.1.3.2. Admission/Entry Requirements**

##### ***Direct Entry***

Three principal passes in Chemistry, Biology and either Physics or Advanced Mathematics or Nutrition with a minimum of 6 points: A minimum of C grade in Chemistry and D grade in Biology and at least E grade in Physics or Advanced Mathematics or Nutrition.

##### ***Equivalent Qualifications***

Diploma in Nursing with an average of “B” or a minimum GPA of 3.0. In addition, an applicant must have a minimum of “D” grade in any five (5) non religious subjects at O-Level.

### **1.1.3.3. Bachelor of Science in Midwifery (BSc.M) - MH012**

#### **1.1.3.4. Admission/Entry Requirements**

##### **Entry Category: Strictly Equivalent**

Diploma or Advanced Diploma in Nursing and Midwifery with an average of “B” or a minimum GPA of 3.0. In addition, an applicant must have a minimum of “D” grade in any five (5) non religious subjects at O-Level.

### **1.1.3.5. Bachelor of Science in Nurse Anaesthesia (BSc.NA) - MH015**

#### **1.1.3.6. Admission/Entry Requirements**

##### **Entry Category: Strictly Equivalent qualification**

Diploma in Nursing or Advanced Diploma in Nursing Education with an average of “B” or a minimum GPA of 3.0. In addition, an applicant must have a minimum of “D” grade in any five (5) non religious subjects at O-Level.

## **1.1.4. School of Public Health and Social Sciences**

### **1.1.4.1. Bachelor of Science in Environmental Health (BSc.**

#### **EHS) - MH007**

#### **1.1.4.2. Entry Qualifications**

##### ***Direct Entry***

Three principal passes in Chemistry, Biology and either Physics or Mathematics or Nutrition or Geography or Agriculture with a minimum of 6 points. A minimum of C grade in Chemistry and D grade in Biology and at least E grade in Physics or Advanced Mathematics or Nutrition or Geography or Agriculture.

##### ***Equivalent Qualifications***

Diploma in Environmental Sciences with an average of “B” or a minimum GPA of 3.0. In addition, an applicant must have a minimum of “D” grade in any five (5) non religious subjects at O-Level.

## **Holders of Foreign Certificates**

All applicants holding foreign qualifications must have their qualifications validated and equated by the respective regulatory bodies before submitting their applications for admissions as follows:

- (i) The National Examination Council of Tanzania in respect of Certificates of Secondary Education and Teacher education
- (ii) The National Council for Technical Education in respect of NTA Level 6 qualification.

## **14 ADMISSION REGULATIONS**

- (i) Successful applicants will be registered only after they have paid the requisite University fees and provided evidence of having a reliable sponsor.
- (ii) Applicants who are employed must show evidence of release from their employers before they are allowed to register and must sign agreement with the University barring such applicants from engaging in any employment during the period of study
- (iii) All students will have to join or show evidence that they are members of National Health Insurance Fund or other similar fund at the time of registration.
- (iv) Fees paid will not be refunded, except under exceptional circumstances as determined by the University Management.
- (v) All admitted students are expected to conform entirely to University regulations.
- (vi) All new students are required to report for the orientation programme that normally takes place during the week preceding the beginning of the new academic year.
- (vii) The deadline for registration of first year students will be four weeks, from the first day of the orientation week, while for continuing students it will be the Friday of the second week after the beginning of the semester. A student failing to register on time shall cease to be a bonafide student of MUHAS.
- (viii) Except in exceptional circumstances, no student will be allowed to change the study programme later than the Friday of the second week after the beginning of the first semester. Changing from one MUHAS academic programme to another; or transfer from one institution to which the candidate has been allocated by TCU to MUHAS, will only be allowed where the student meets the required admission criteria for the academic programme for which transfer is being sought, and a vacancy exists in that programme. Following transfer, TCU shall be immediately notified of the same.
- (ix) Students entering this University by transfer of credits, cannot transfer credits obtained elsewhere unless the programmes from the other University are in the Credit Accumulation and Transfer System (CATS). Such transfers should conform to the TCU principles of credit transfer as outlined in the current TCU University Qualifications Framework.
- (x) A student who intends to transfer credits for purposes of graduation at MUHAS shall be required to spend a minimum of two thirds of

the duration of the programme of study at this University.

- (xi) Where degrees are classified, the maximum transferable load is one academic year.
- (xii) Undersgraduate students who freeze studies will be allowed to be away from University studies for a maximum of **four semesters** if they are to be re-admitted to the same year of studies where they left off.
- (xiii) Students discontinued from studies on academic grounds from this or any other university shall only be eligible for re-admission or admission, respectively to this University for the same or any other programmes at least three years after discontinuation from studies.
- (xiv) Students discontinued from studies on professional misconduct or disciplinary grounds or due to examination irregularity shall not be re-admitted to this University.
- (xv) Except under exceptional circumstances, no change of names by students will be entertained during the course of study at the University and they will only be allowed to use names appearing on their O- and A-level certificates.
- (xvi) No student will be allowed to postpone or freeze studies after effective commencement of an academic year except under very special circumstances. Permission to postpone or freeze studies will be considered after producing satisfactory evidence of the reasons for postponement or freezing and written approval from the sponsor and Senate. Special circumstances shall include:
  - (a) Sickness.
  - (b) Family/Social problems (each case to be considered on its own merit)
  - (c) Severe sponsorship problem or employer withdrawal of permission
- (xvii) Continuing students who have not signed the Higher Education Student Loans' Board (HESLB) Pay Sheets shall not be allowed to register for any semester. Any further disbursement of funds from HESLB will be stopped. No student (HESLB or other-sponsors supported) will be allowed to register for any semester without paying minimum fees for registration to take effect.

#### **145 Admission of Short-Term Students to Undergraduate Degree Courses**

- (i) A short-term student is one, whose studentship at the University is one academic year and who is not registered for the certificate, diploma or degree course of the University.
- (ii) Applications will only be considered from those candidates who

- possess the University entrance qualifications or equivalent (B average) or higher qualifications for admission to the undergraduate degree course: -
- (a) The application must be submitted through the applicant's University/ College, to reach DVC-ARC at least two months before the beginning of the semester in which admission is being sought.
  - (b) The applicant's University/College should, if it supports the application, send a letter of recommendation to this University.
- (iii) Short-term students are required to register as students of the University for one full academic year to any year of study as long as they meet the prerequisites. As registered students, all regulations governing full time students will apply to them unless otherwise stated.
  - (iv) Non-Tanzanian students are expected to conform to all immigration formalities in force in their countries before they depart for Tanzania. They must also obtain a Resident Permit from the nearest Tanzanian Embassy or High Commission before they arrive.
  - (v) Registration for all students, including short-term students, is in September/October of each year unless otherwise specified.
  - (vi) At the end of the academic year, they have to sit for University examinations. They may also sit for supplementary examinations in the courses they failed.
  - (vii) A short-term student may be discontinued on the following grounds: serious breach of University (including Examination) regulations, abscondment, and/or irregular attendance in classes.
  - (viii) Short-term students may transfer to a degree programme provided their performance is satisfactory and to be awarded a degree of this University must have done most of the work at least 2/3 of the requirements at the University.
  - (ix) Short-term students may be allowed to change status of registration from audit to credit course by permission from Senate and subject to meeting other requirements or prerequisites.
  - (x) Short-term students under special programmes will pay fees as prescribed in the terms governing the respective programmes while fees for other categories of short-term students will be paid proportionately as for regular students. Non- Tanzanian students will pay the fees in US\$.

### **courses**

- (i) An occasional student is one whose studentship is less than one academic year.
- (ii) The entrance qualifications are the same as for admission to undergraduate degree course or equivalent: -
  - (a) The application must be submitted through the applicant's University/ College, to reach DVC-ARC at least six months before the beginning of the semester in which admission is being sought.
  - (b) The applications must be submitted through the applicant's University/College, which should, if it supports the application, send a letter of recommendation to this University.
- (iii) Non-Tanzanian students are expected to conform to all immigration formalities in force in their countries before they depart for Tanzania. They must also obtain Resident Permit from the nearest Tanzania Embassy or High Commission before they arrive.
- (iv) Admission is on a semester basis to any year of study.
- (v) Occasional students will neither sit for examinations nor get transcripts or grades except in special circumstances as may be approved by Senate or where regulations allow a special programme could be set up which is recognized by the University.
- (vi) An occasional student will be discontinued on the following grounds:
  - (a) Any serious breach of University regulations.
  - (b) Abscondment.
  - (c) Irregular attendance.
- (vii) Occasional students may be allowed to audit courses by permission of the Senate.
- (viii) Occasional students under special programmes will pay fees as prescribed in the terms governing the respective programmes while fees for other categories of occasional students will be paid proportionately as for regular students. Non-Tanzanian students will pay the fees in US\$.



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**

## 15 GENERAL UNIVERSITY EXAMINATION REGULATIONS

### 15.1 Regulation 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. Payment of the required University fees is mandatory for the student to be registered and shall be made within the first two weeks after commencement of each Semester for both incoming first year and continuing students.
- (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.

### 15.2 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 programs 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, altruism and compliance to the approved University dress code.

**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 grossly 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 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.

### **153 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 1.5.3 (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.

- (v) Candidates who fail to sign the HESLB Pay Sheets shall not be allowed to sit for University Examinations.

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

#### **154 Absence from Examinations**

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

#### **155 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 1.5.5 (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 1.5.11 (I)-(iii) at the end of each Semester.
- (iii) External Examiners shall be entitled to such honoraria, as the Council shall prescribe.

#### **156 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.

#### **157 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 Undergraduate Education Committee or 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.

## **158 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 1.5.8 (iii) shall form part of and be as binding as these Regulations.

## **159 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 Undergraduate Education Committee or 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 shall be 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 direct the respective department to discuss the report and provide reactions to the comments made.

### **15.10 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 Undergraduate Education Committee or 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. All students are not allowed to enter the examination rooms with cell phones or any digital instruments except where such materials are allowed for digital/online examinations, in which case the examiners/invigilators will enable conditions that prevent cheating.
- (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 1.5.19 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.

### **15.11 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 Dean of the relevant School or Director of an Academic Institute soon after the School or Institute Board 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 Undergraduate Education Committee or the Senate Higher Degrees Committee as the case may be, the Senate Committee shall make recommendations on the results and submit them to Senate for approval and allowing publication in SARIS.
- (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.

### **15.12 Progress from Year to Year**

- (i) Candidates who are full time undergraduate students are required to have attained a minimum GPA of 1.6 before proceeding to the following year of study.
- (ii) A candidate who passes the examination with a C grade or higher will be declared to have passed the examination.
- (iii) A candidate will be considered to have passed a course after passing all modules/rotations of the respective course.
- (iv) A candidate who scores a GPA of 1.6 or higher, but fails in upto 2 courses at the end of a semester or audit year shall be required to supplement in the failed Courses/modules.
- (v) A candidate who fails in three or more courses during semesters one (1) to two (2) for four to six (4-6) semester programmes shall be discontinued from studies regardless of GPA.
- (vi) A candidate who fails in three or more courses during Semesters one (1) to four (4) for eight to ten (8-10) semester programmes shall be discontinued from studies regardless of GPA.
- (vii) For programmes with three or more Courses in an audit year, a candidate who fails all courses in the audit year shall be discontinued from the studies irrespective of the GPA.
- (viii) Candidate shall be allowed to sit for a second supplementary examination in failed course(s) if he or she has attained a GPA of 1.8 or above.
- (ix) For all undergraduate programmes with a total of six (6) semesters or more, no candidate shall be allowed to progress to semester 5 unless and until he/she has passed all course modules in semesters 1 to 4 of the programme.
- (x) 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 Undergraduate Education Committee as the case may be.
- (xi) To qualify for a degree award, the cumulative total minimum number of programme credits shall be a sum of the minimum number of course credits required per academic year for each degree programme that is: -
  - (a) Undergraduate degree programme shall have a minimum of 258 total credits.
  - (b) An undergraduate degree programme may have more than the minimum credits stated in 1.5.12 (xi) (a) depending on its duration.

### 15.13 Classification of Undergraduate Degrees of MUHAS

- (i) The letter grades will be assigned grade points (GP) in accordance with the raw marks attained. For students who first registered into their programs before 29<sup>th</sup> April, 2021 will be as follows: -

Letter grade	A	B+	B	C	D	E
GP range	5.0 – 4.4	4.3 – 3.5	3.4 – 2.7	2.6 – 2.0	1.9 – 1.5	1.4 – 0.0
% Score	100 – 70%	69 – 65%	64 – 56%	55 – 50 %	49 – 40%	39 – 0%
GP equation	$Y=0.02x+3$	$Y=0.2x-9.5$	$Y=0.0875x-2.2$	$Y=0.1x-3$	$Y=0.044x-0.28$	$Y=0.0359x$

- (ii) For students who first registered into their programs on or after 29<sup>th</sup> April, 2021 the grade points (GP) will be as follows:

Letter grade	A	B+	B	C	D	E
GP range	5.0 – 4.4	4.3 – 3.5	3.4 – 2.7	2.6 – 2.0	1.9 – 1.5	1.4 – 0.0
% Score	100 – 75%	74 – 70%	69 – 60%	59 – 50 %	49 – 40%	39 – 0%
GP equation	$Y=0.024x+2.6$	$Y=0.2x-10.5$	$Y=0.08x-2.1$	$Y=0.07x-1.5$	$Y=0.04x-0.1$	$Y=(1/28)x$

- (iii) Approved courses given for each degree shall be appropriately weighted in terms of credits.
- (iv) To get the Score for each course, the grade points are multiplied by the number of credits of the course as in 1.5.13 (i)&(ii).
- (v) The total score for the degree shall be the total score for all countable courses taken by the candidate for the degree, computed as in 1.5.13 (i)&(ii)
- (vi) The average score (GPA) shall be computed by dividing the total score in 1.5.13 (iv) by the total weight obtained as in 1.5.13 (iii).
- (vii) Except for MD, DDS, BScN, BSc Midwifery and BScN Management degrees which are not classified, the final degree classification for other degrees shall be as follows:-

Class	First Class	Second Class – Upper Division	Second Class – Lower Division	Pass
Letter Grade	A	B+	B	C
GPA Range	5.0 – 4.4	4.3 – 3.5	3.4 – 2.7	2.6 – 2.0

### 15.14 Classification of Diplomas

- (i) No diploma of the University shall be classified except with the special permission of Senate and upon recommendations of the Board of a relevant School or Academic Institute.

- (ii) Where the Senate grants special permission for classification of a diploma, the provisions of regulation 1.5.13 shall apply subject to such necessary modifications, variations and conditions as the Senate may impose or prescribe.

### **15.15 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, diploma or other award, as the case may be, 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, diploma or other award be conferred upon or granted to such successful candidate.
- (ii) The Senate may confer degrees and grant diplomas 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.

### **15.16 Aegrotat Degrees**

Candidates who have completed their course of study but have been absent, through illness, from part of the final examination for a first 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 undergraduate degree are not permitted to re- enter for the same examination, but may apply for permission to

proceed to a second or higher degree on complying with the regulations for registration for such a degree.

### **15.17 Post-humous 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 of undergraduate degrees and Diplomas 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**

An undergraduate 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 Undergraduate Education 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 a 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.

### **15.18 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 degree, diploma or other award.

- (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/= for 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 with a blue background (shirt or blouse should not be white) 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 transcript or statement of results shall be issued to discontinued students on academic, abscondment, disciplinary or any other reasons that lead to student expulsion from the University.

### **15.19 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 sworn in 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.

## **1520 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.
- (ii) Any student or candidate aggrieved by a decision of the Senate Undergraduate Education Committee in terms of the provisions of regulation 1.5.10 (viii) may appeal to the Senate for reversal or moderation of the decision of the Committee.
- (iii) Any appeals made under regulation 1.5.20 (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 Undergraduate Studies 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 1.5.20 (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.

### **1521 Appeal Fee**

- (i) All appeals shall be accompanied by non-refundable appeal fee of ten thousand shillings (TZS 10,000) for Tanzanian students or twenty dollars (USD 20.00) Bankers Cheque or other wire transfers 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.

### **1522 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.

## 1.6 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. Candidate's attention is specifically drawn to

General University Examination Regulation No. 1.5.10 (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 unless circumstances as stipulated under Section 1.5.10 (ii) of Examination Regulations apply.

## 1.7 NOTES TO INVIGILATORS

### Procedure in the Examination Room for non digital written Examination

#### ***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.

### **1.7.2 Procedures in the Examination Room for digital written Examination**

For digital (online) examinations, instructions and conditions will be provided by the examiners/invigilators during when such examination will be done.

### **1.7.3 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.

## **1.8 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 or wire transferred after obtaining a unique control number that will be generated during the registration process and all payments must be



receipted. The payer should then submit payment remittance advice to the Director of Finance for receipting. No personal cheques will be accepted. 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.

## 1.9 STUDENT ADMINISTRATION AT MUHAS

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.



*Members of MUHASO leadership in a Group photo with MUHAS Management during New MUHASO Leaders Induction Workshop organized by the Office of Dean of Studentson 15<sup>th</sup> July 2019*

## 1.10 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 about 50,000 volumes of books and about 200 titles of periodicals. The library is currently subscribing to 30 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, Community Development, Gender Elderly and Children (MoHCDGEC).

The Library coordinates an Information Literacy Programme, which is integrated into the postgraduate course syllabus. The programme consists of 10 hours of Research Methodology course. Library academic staff forms the core of the teaching staff in this course.



*The Directorate of Library Services offers training on use of e-resources in improvement teaching, learning, resercah and consultancy*



*In the Library: Students searching for appropriate reference material from various catalogues.*

## **The 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

**1.11 UNIVERSITY ICT SERVICES**

Since 1998 the University has been providing ICT services to Academic Staff, Students, Researchers and Administrative Staff. These services include e-mail services and Internet services. The University has therefore invested in a powerful fiber optic network connecting all buildings thus providing high-speed data transmission (100Mbps/1Gbps). The communication gateway to the outside world is through a VSAT link currently operating at a bandwidth of 1Mbps/ 512 kbps (down/ up) upgradeable to 2/1 Mbps (down/up) and beyond as the financial situation improves. The Server Room is equipped with eight servers and eight routers. The servers provide e-mail access, Internet surfing, on-line learning as well as digital library services. The routers function to separate information traffic to different buildings and reduce data jams. Two-5KVA uninterruptible power supply units protect these expensive instruments, a solar power back up system and inverters.

Nine lecture halls are fitted with permanently fixed multimedia projectors and desktop computers to provide lecturers with reliable teaching aids. Plans for the future intend to have such facilities in all teaching rooms. The operating theatre at the Muhimbili National Hospital has been fitted with a closed-circuit TV to enable students follow up operations without having to be physically inside the theatres. This will greatly alleviate the congestion caused by the increased student intake. The University has recently acquired video conferencing facilities that will make it possible for lecturers to deliver telemedicine services to doctors in remote areas. The University recently received a donation of 50 computers from Kyoto computers Gakuin in Japan that greatly improved computer access by replacing defective PCs used by students and staff.

To ensure proper usage of ICT facilities especially Wireless internet services, student must sign agreements/contracts with DICT to deter the misuse of ICT facilities, which include inviting guest, friends and others to use wireless in campus, to use computers for huge downloads of songs, movies and illicit materials.



*Students searching information in the Computer Lab at MUHAS*



## 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 programs 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:

1. 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.
2. 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.
3. 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.

4. 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:***

1. To provide undergraduate education in Medicine, Medical Laboratory Sciences and Radiation therapy technology for degree and non-degree programs.
2. To provide post-graduate education in different specialties and superspecialties of medicine
3. To support teaching of students/trainees from other Schools/Institutes at MUHAS as well as for stakeholders that are external to the University.
4. To prepare and publish, in its own right, medical educational materials in various fields of the clinical, diagnostic and biomedical sciences.
5. To conduct in its own right medical research and disseminate findings.
6. To carry out contracted medical research on behalf of third-party clients
7. To carry out scientific educational, professional and technical consultancy services on behalf of third-party clients.
8. To engage in cost containment and income generating ventures related to its outputs.
9. 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. 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) 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, 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 2011/12 academic year, 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 UNDERGRADUATE PROGRAMMES**

### **2.2.1 Doctor of Medicine (MD) Degree Programme- MH011**

Doctor of Medicine is a ten-semester (five years) competency based programme, leading to the MD degree of this University followed by a year's internship at an approved hospital. The first four semesters are largely devoted to basic sciences and introduction to clinical medicine, but also fieldwork and community training. The next six semesters are largely practical and consist of junior and senior clerkships as well as community health training: The ten semesters are described below:

### 2.2.1.1 MD 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: 65.8 Credits</b>									
<b>AN 100</b>	Gross Anatomy and Histology	CORE	109	24	44	24	100	301	30.1
<b>BC 100</b>	Biochemistry and Molecular Biology	CORE	80	10	5	5	100	200	20.1
<b>IT 100</b>	ICT & Communication skills	CORE	30	5	5	5	35	80	8.0
<b>PF 110</b>	Professionalism & Ethics in Health and Research	CORE	10	10	10	20	27	77	7.7
<b>Semester 2: 65.8 Credits</b>									
<b>AN 110</b>	Dissectional Anatomy and Embryology	CORE	39	10	20	30	145	244	24.4
<b>BS 100</b>	Behavioural science	CORE	100	25	-	-	-	125	12.5
<b>EO 100</b>	Community Health organization	CORE	23.6	23.6	5.9	5.9	-	59	5.9
<b>PH 100</b>	Physiology	CORE	170	-	10	10	40	230	23.0
<b>Semester 3: 65.8 Credits</b>									
<b>MI 201</b>	Microbiology/Immunology	CORE	94	28	19	19	132	292	29.2
<b>PE 200</b>	Parasitology & Entomology	CORE	60	15	15	30	30	120	12.0
<b>ER 200</b>	Epidemiology Biostatistics & research Methods	CORE	81	5	10	10	10	116	11.6
<b>DS 200</b>	Health Systems and Development	CORE	60	15	15	10	-	100	10.0




**Semester 4: Credits 65.8**

<b>EO 200</b>	Community Health Practice	CORE	-	9	-	4	107	120	12.0
<b>CP 200</b>	Basic and Clinical Pharmacology	CORE	70	80	17	21	60	248	24.8
<b>MP 200</b>	Pathology	CORE	40	5	-	5	50	100	10.0
<b>PS 200</b>	Psychopathology	CORE	70	30	10	30	-	140	14.0
<b>HB 201</b>	Haematology and Blood Transfusion	CORE	15	8	5	5	17	50	5.0

**Semester 5: 65.8 Credits**

<b>MD 300</b>	Management of Diseases	CORE	297	-	51	108	51	507	50.7
<b>RO 300</b>	Radiology	CORE	80	20	0	26	25	151	15.1

**Semester 6: 65.8 Credits**

<b>PF 300</b>	Professionalism and Ethics in Medical Practice	CORE	12	12	24	24	65	137	13.7	
<b>MD 301</b>	Communicable and Non-communicable Disease Control	CORE		140	70	35	35	70	350	35.0
<b>ME 310</b>	Research Proposal Development	CORE		10	10	5	5	20	50	5.0
<b>OM 300</b>	Occupational Medicine	CORE	24	12	6	4	6	52	5.2	
<b>MT 300</b>	Management and Entrepreneurship	CORE	42	-	10	17	0	69	6.9	

**Semester 7 & 8: 131.6 Credits**

<b>MY 410</b>	Psychiatry	CORE		10	26.32	13.16	13.16	68.96	131.6	13.16
<b>MA 410</b>	Anaesthesiology and Critical care Medicine	CORE		10	26.32	13.16	13.16	68.96	131.6	13.16
<b>OP 410</b>	Ophthalmology	CORE		10	26.32	13.16	13.16	68.96	131.6	13.16

<b>EM 410</b>	Emergency Medicine	CORE	10	26.32	13.16	13.16	68.96	131.6	13.16
<b>MS 410</b>	Surgery	CORE	10	26.32	13.16	13.16	68.96	131.6	13.16
<b>IM 410</b>	Internal Medicine	CORE	10	26.32	13.16	13.16	68.96	131.6	13.16
<b>MG 410</b>	Obstetrics and Gynaecology	CORE	10	26.32	13.16	13.16	68.96	131.6	13.16
<b>MH 410</b>	Paediatrics and Child Health	CORE	10	26.32	13.16	13.16	68.96	131.6	13.16
<b>OL 410</b>	Otorhinolaryngology	CORE	10	26.32	13.16	13.16	68.96	131.6	13.16
<b>OT 410</b>	Orthopaedics, Traumatology and Neurosurgery	CORE	10	26.32	13.16	13.16	68.96	131.6	13.16
<b>Semester 9 &amp; 10: 131.6 Credits</b>									
<b>MS 510</b>	Surgery	CORE	20	48.4	24.2	24.2	125.2	242	24.2
<b>OG 510</b>	Obstetrics and Gynaecology	CORE	20	48.4	24.2	24.2	125.2	242	24.2
<b>MH 510</b>	Paediatrics and Child Health	CORE	20	48.4	24.2	24.2	125.2	242	24.2
<b>IM 510</b>	Internal Medicine	CORE	20	48.4	24.2	24.2	125.2	242	24.2
<b>MC 510</b>	Community health	CORE	20	48.4	24.2	24.2	125.2	242	24.2
<b>ME 510</b>	Research Data analysis and Reporting	CORE	20	21.2	10.6	10.6	43.6	106	10.6



*Medical Students and Teachers in the Operating Theatre*

### **2.2.1.2 Examination Regulations for the MD Programme**

- (i) General University Examination regulations on registration, professional conduct, 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 MD degree is a ten-semester programme and the maximum tenure shall be 14 semesters.
- (iii) Registration of full-time students shall be once at the beginning of each semester.
- (iv) There shall be at least two continuous assessment tests (CA) and regular assessment of competencies for each module/modular

course taught during each semester. The field reports shall also be marked and graded as part of CA where applicable. The CA tests (CAT) and the regular assessment of competencies or Formative Assessment (FA) shall all constitute the CA. The final examination at the end of module/modular course shall constitute the Summative Assessment (SA).

- (v) The CA shall contribute 50% of the final grade in the end of module/modular course university examinations. The CA and SA shall consist of written (essays/short answer questions, MCQs, quizzes, field reports, assignments, presentations and other similar written assessments) and practical/clinical components (global observation and rating of live/recorded performances, procedures and logbooks, OSPE, OSCE and other similar practical assessments) using appropriate assessment tools. For pre-clinical courses, the final grade will constitute 50% of CA and 50% of SA/FE and the pass mark shall be 50%.

For clinical courses the proportional contribution for written and practical/clinical in SA will be 50% each. The final grade will be determined by the sum of 50% SA/FE and 50% CA which must be passed at C grade or higher. In addition the student will have to pass SA clinical at 50% or above as determined by summation of 40% Clinical CA and 60% Clinical SA. Therefore in order to pass a course, both the final grade and the summed practical/clinical CA and SA must be passed separately.

- (vi) A candidate who passes the examination with a C grade or higher will be declared to have passed the examination. A candidate who scores a GPA of 1.6 or higher, but fails in two course(s) or less shall be required to supplement in the failed modules in the course(s) in October, before the start of new Academic year for Semester 1- 4 and when next offered for Semester 5-10.
- (vii) A candidate who obtains a GPA of less than 1.6 shall be discontinued from studies.
- (viii) A candidate who fails three or more courses in any semester or in an audit year during semesters one (1) to four (4) shall be discontinued from studies regardless of GPA.
- (ix) A candidate who fails in a first supplementary examination in basic sciences (Semester 1-2) shall be allowed to carry-over the failed module(s) to the next academic audit year and appear for a second supplementary examination in the failed module(s) of the respective course(s) in October provided the GPA is 1.8 or higher. A candidate who fails the second supplementary in basic sciences shall be discontinued from studies.
- (x) No candidate shall be allowed to progress to semester 5 unless and until he/she has passed all course modules in semesters 1 to 4 of the programme.
- (xi) A candidate who fails the first supplementary examination during semesters 3 and 4 shall be allowed to freeze registration and appear for another supplementary examination when next offered provided she/he has a GPA of

1.8. In this case, the maximum freezing period shall be 2 semesters. A student who fails to clear the failed modules/courses within the two semesters shall be discontinued.

- (xii) A candidate shall not be considered to have passed any clinical course unless and until he/she has passed the clinical components of the examination, [whereby 40% is from CA and 60% from the final examination (SA)] and the combined contribution by written and clinical examinations separately as per regulation (v) above
- (xiii) A candidate who fails junior (semester 5 & 6) or intermediary (semester 7 & 8) clerkship clinical rotation examinations shall be required to do a supplementary rotation when next offered, and pass before progressing to the next year of study.
- (xiv) A candidate who fails senior clerkship clinical rotation (semester 9 & 10) shall be required to do a supplementary rotation after semester 10. For clinical rotations whose duration is six or more weeks, the supplementary rotation shall be half the duration of that rotation. The student who fails first supplementary rotation examination will repeat a full rotation and pass the supplementary examination before he/she can be considered to have completed the semester. For rotations which are less than 6 weeks duration, the period of supplementary rotation will be the full duration. An intermediary or senior clerkship candidate who fails a second supplementary examination shall be allowed to do a supplementary examination when next offered before proceeding to semester 10 or completion of studies provided that the maximum tenure of 14 semesters is not exceeded.
- (xv) A candidate with incomplete course work in any semester will not be allowed to sit for end of module or rotation examination.
- (xvi) A candidate who passes a supplementary examination shall be awarded a “C” grade equivalent to 2.0 grade points.
- (xvii) Progression to semester 9 and 10 is subject to completion of clinical rotations, submission of a satisfactory elective research proposal, completing rotations and passing University examinations for semester 7 and 8.
- (xviii) A satisfactory elective research report from semester 7 and 8 must be submitted at least 8 weeks prior to the final semester 10 rotation examination, failure of which will deem the candidate ineligible to sit for the final examination.
- (xix) No student will be allowed to graduate if he/she has not completed all fieldwork assignments and submitted relevant and satisfactory reports.
- (xx) A student shall be awarded the MD degree after passing all prescribed courses in the MD programme.

### 2.2.1.3 Grading System

Computation of the GPA for the MD programme 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 MD degree shall not be classified: -

Letter grade	A	B+	B	C*	D	E
Grade points	5.0 - 4.4	4.3 - 3.5	3.4 - 2.7	2.6 - 2.0	1.9 - 1.5	1.4 - 0.0
Marks %	100 - 75%	74 - 70%	69 - 60%	59 - 50%	49 - 40%	39 - 0%

\* Pass mark

### 2.2.2 Bachelor of Science in Diagnostic and Therapeutic Radiography (BSc RAD) Degree Programme- MH008

The BSc RAD programme aims at training students in diagnostic and therapeutic radiography technologies. The duration of study will be eight semesters in four years. In the first two semesters students will attend lectures and practical in basic science courses. In the third and fourth semesters students will attend relevant lectures, seminars, practical and rotate in different clinical departments to acquire experience in specific techniques. In the fifth to eighth semester students will do practical rotations in discipline specific courses and research work.

**2.2.2.1 BSc RAD Degree Programme courses**

Course Code	Course name	Core or Elective	Lecture Hrs	Tutorials/ Seminars Hrs	Assignment	Independent study	Practical	Total Hours	Credits
<b>SEMESTER 1: 65.8 Credits</b>									
<b>AN 100</b>	Gross Anatomy and Histology	Core	109	24	44	24	100	301	30.1
<b>BC 100</b>	Biochemistry and Molecular Biology	Core	80	10	5	5	100	200	20.0
<b>IT 100</b>	ICT and Communication skills	Core	30	5	5	5	35	80	8.0
<b>PF 100</b>	Professionalism and ethics in Health and Research	Core	10	10	10	20	27	77	7.7
<b>SEMESTER 2: 65.8 Credits</b>									
<b>PH 100</b>	Physiology	Core	170	-	10	10	40	230	23.0
<b>AP 105</b>	Radiation Physics	Core	60	15	10	20	25	130	13.0
<b>RB 105</b>	Radiobiology	Core	70	10	10	10	60	160	16.0
<b>CI 105</b>	Cross-sectional Imaging anatomy	Core	40	10	10	28	50	138	13.8
<b>SEMESTER 3: 65.8 Credits</b>									
<b>DS 200</b>	Health System and Development	Core	59	15	15	19	-	108	10.8
<b>RE 205</b>	Radiography, Radiotherapy and Nuclear Medicine	Core	50	10	10	10	60	140	14

	equipment								
<b>US 205</b>	General Ultrasound	Core	50	10	10	10	70	150	15
<b>NM 205</b>	Nuclear Medicine	Core	30	30	10	10	20	100	10
<b>RA 205</b>	Chest, Skeletal and Abdominal pelvic Radiography	Core	60	10	10	20	60	160	16
<b>SEMESTER 4: 65.8 Credits</b>									
<b>MP 200</b>	Pathology	Core	40	5	-	5	50	100	10.0
<b>HT 210</b>	Haematology and Blood Transfusion	Core	15	8	5	5	17	50	5
<b>RA 305</b>	Special Radiographic Procedures and Radio-fluoroscopy	Core	40	20	20	14	85	179	17.9
<b>PR 205</b>	Chest, skeletal and Hematopoietic Radiographic Pathology	Core	60	15	10	20	65	170	17.0
<b>FO 205</b>	Fundamentals of Oncology	Core	70	25	15	13	36	159	15.9
<b>SEMESTER 5: 65.8 Credits</b>									
<b>RP 305</b>	Radiotherapy treatment planning	Core	60	10	10	27	80	187	18.7
<b>PR 305</b>	Abdomen, Pelvis and CNS Radiographic Pathology	Core	60	15	10	15	89	189	18.9
<b>US 305</b>	Small Parts Ultrasound and Echocardiography	Core	30	20	15	21	80	166	16.6
<b>ER 200</b>	Epidemiology, Biostatistics &	Core	81	5	10	10	10	116	11.6





## research Methods

**SEMESTER 6: 65.8 Credits**

<b>RD 305</b>	Radiotherapy delivery	Core	50	15	30	74	100	269	26.9
<b>CT 305</b>	CT Imaging techniques and protocols	Core	20	20	20	15	60	135	13.5
<b>MR 305</b>	MR Imaging techniques and protocols	Core	20	20	20	15	60	135	13.5
<b>ME 310</b>	Research Proposal Development		10	10	5	5	20	50	5
<b>ME 300</b>	Management and entrepreneurship	Core	42	0	10	17	0	69	6.9

**SEMESTER 7: 65.8 Credits**

<b>BR 405</b>	Brachytherapy	Core	30	10	10	34	70	154	15.4
<b>OM 405</b>	Oral radiography and mammography	Core	30	15	15	30	60	150	15
<b>RD 305</b>	Radiotherapy Treatment Planning and Nuclear Imaging Practice	Core	-	10	5	12	150	177	17.7
<b>DR 305</b>	Radiography and ultrasound practice	Core	-	10	5	12	150	177	17.7

**SEMESTER 8: 65.8 Credits**

<b>FW 405</b>	Radiography and Radiotherapy Field Work	Core	0	10	20	10	120	160	16
<b>RR 405</b>	Research Data analysis and	Core	0	6	5	14	43	68	6.8

Reporting									
<b>RD 405</b>	Radiotherapy Delivery and Radionuclide therapy practice	Core	0	20	5	10	180	215	21.5
<b>DR 405</b>	Computed Tomography and Magnetic Resonance Imaging Technologies	Core	-	20	5	10	180	215	21.5



*MUHAS Students during Laboratory Practical Session*

### **2.2.2.2 Examination regulations for BSc RAD programme**

- (i) General University Examination regulations on registration, professional conduct, 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 BSc RAD is an eight (8) semester programme with the maximum tenure of 10 semesters.
- (iii) Registration of full time student shall be once at the beginning of each semester.
- (iv) 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).

- (v) The CA shall contribute 50% of the final grade in the end of module/modular course university examinations.
- (vi) The CA shall contribute 50% of the final grade in the end of module/modular course university examinations.

The CA and SA shall consist of written (essays/short answer questions, MCQs, quizzes, field reports, assignments, presentations and other similar written assessments) and practical/clinical components (global observation and rating of live/recorded performances, procedures and logbooks, OSPE, OSCE and other similar practical assessments) using appropriate assessment tools. For pre-clinical courses, the final grade will constitute 50% of CA and 50% of SA/FE and the pass mark shall be 50%.

For clinical courses the proportional contribution for written and practical/clinical in SA will be 50% each. The final grade will be determined by the sum of 50% SA/FE and 50% CA which must be passed at C grade or higher. In addition the student will have to pass SA clinical at 50% or above as determined by summation of 40% Clinical CA and 60% Clinical SA. Therefore in order to pass a course both the final grade and the summed practical/clinical CA and SA must be passed separately.

- (vii) A candidate will be considered to have passed a course after passing all modules/rotations of the respective course.
- (viii) A candidate who passes the examination with a C grade or higher will be declared to have passed the examination.
- (ix) A candidate who scores a GPA of 1.6 or higher, but fails in two course(s) or less shall be required to supplement the failed modules in the course(s) in October, before the start of new academic year for Semester 1 to 4 and when next offered for semester 5 to 8.
- (x) A candidate who obtains a GPA of less than 1.6 shall be discontinued from studies.
- (xi) A candidate who fails three or more courses in any semester or in the audit year during semesters one (1) to four (4), shall be discontinued from studies regardless of GPA.
- (xii) A candidate who fails a first supplementary examination during semester one (1) to two (2) shall be allowed to carry-over the failed module(s) to the next academic year and appear for a second supplementary examination in the failed module(s) of the respective course(s) in October provided the GPA is 1.8 or higher.
- (xiii) A candidate who fails the second supplementary examination in semesters one (1) to four (4) shall be discontinued from studies, except in special circumstances, if recommended by the School of Medicine Board and Senate Undergraduate Committee and approved by the University Senate.

- (xiv) No candidate shall be allowed to progress to semester 5 unless and until he/she has passed all course modules in semesters 1 to 4 of the programme.
- (xv) No candidate shall be allowed to proceed to semester 7, before clearing all the modules/courses in the semesters 5 to 6 courses.
- (xvi) A candidate who fails the second supplementary examination in semesters 5 to 8 shall be allowed to supplement the failed courses when next offered provided the maximum tenure of 10 semesters is not exceeded.
- (xvii) A candidate who fails the first supplementary examination in semesters 3 and 4 shall be allowed to freeze registration and appear for second supplementary examination when next offered provided she/he has a GPA of 1.8. In this case, the maximum freezing period shall be 2 semesters. A student who fails to clear the failed modules/courses within the two semesters shall be discontinued
- (xviii) A candidate shall not be considered to have passed any module/ modular course or course unless and until he/she has passed the practical components of the examination, whereby 50% is from FA and 50% from the final assessment.
- (xix) A candidate who passes a supplementary examination at any level shall be awarded a “C” grade equivalent to 2.0 grade points.
- (xx) A student shall be awarded the BSc RAD degree after passing all prescribed courses in the programme.
- (xxi) BSc RAD is a classified degree.

### 2.2.2.3 Grading and Classification of BScRAD Degree Programme

The weighting of modules contributing to the degree classification shall be based on the number of Credits for each module from semester 1 to semester 8 as shown below: -

Letter grade	A	B+	B	C	D	E
Grade points	5.0 - 4.4	4.3 - 3.5	3.4 - 2.7	2.6 - 2.0	1.9 - 1.5	1.4 - 0.0
Marks %	100 - 75%	74 - 70%	69 - 60%	59 - 50%	49 - 40%	39 - 0%

### 2.2.3 Bachelor of Biomedical Engineering (BBME)- MH014

The degree of Bachelor of Biomedical Engineering (BBME) is a professional undergraduate degree programme jointly offered by MUHAS and Mbeya University of Science and Technology (MUST). It envisages producing graduates, who are able to design, develop, configure and maintain medical devices, equipment and fabricating spares and replacements for disposable fittings such as rubber tubing. The graduates of BBME degree programme, are expected to apply biomedical sciences, computer science, mathematical, mechanical, electronics and electrical engineering principles to trouble shoot, assess quality, repair and develop biomedical products.

### 2.2.3.1 BBME Degree Programme courses

Code	Course Name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>Semester 1 (65 credits)</b>								
BME 101	Mathematical Analysis	40	40	20	20	20	140	14
BME102	Introduction to Biomedical Engineering	2.5	20	5	2.5	10	40	4
BME 103	Anatomy	50	10	10	30	20	120	12
BME 104	Basic Physiology	50	20	20	10	20	120	12
BME 105	Biochemistry	40	10	10	20	10	90	9
BME 106	Computer Programing Languages	20	10	10	10	20	70	7
BME107	Computer Application	20	10	20	10	10	70	7
<b>Total</b>							<b>650</b>	<b>65</b>

#### Semester 2 (78 Credits)

Course Code	Course Name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>BME 108</b>	Lin. Alg and Adv Calc, Diff Eqns & Numerical Analysis	40	40	20	20	20	140	14
<b>BME 109</b>	General Physics	30	10	20	10	20	90	9



<b>BME 110</b>	Engineering Materials	20	10	10	5	5	50	5
<b>BME111</b>	Fundamentals of Elect/Mech Engineering	20	30	10	20	10	90	9
<b>BME 112</b>	Engineering Drawing	20	40	10	30	10	110	11
<b>BME 113</b>	Electrical Workshop Technology	5	20	5	30	40	100	10
<b>BME 114</b>	Mechanical Workshop Technology	10	20	10	10	50	100	10
<b>BME 115</b>	Industrial Practical Training I	10	10	10	10	60	100	10
<b>Total</b>							<b>780</b>	<b>78</b>

**Seminar ( Semester 3 (66 Credits Hrs**

<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>
BME 201	Coordinate Geometry	20	20	10	10	10	70	7
BME 202	Signals and Systems	30	20	10	20	20	100	10
BME 203	Applied Physics	30	-	10	10	20	90	9
BME 204	Strength of Materials	20	20	10	10	10	70	7
BME 205	Fundamental of Electronics Engineering	30	20	10	20	20	100	10
BME 206	Computer Aided Engineering	20	10	10	10	30	80	8



Semester 4 (65 Credits)								
Code	Course Name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
BME 209	Technical Communication	20	5	5	10	0	40	4
BME 210	Measurement and Instrumentation	20	10	10	10	10	60	6
BME 211	Fluid Mechanics	20	10	10	20	10	70	7
BME 212	Control Systems Engineering	20	10	10	20	10	70	7
BME 213	Digital Electronics	30	10	10	20	30	100	10
BME 214	Thermodynamics	20	10	10	20	10	70	7
BME 215	Microprocessor	20	10	10	5	5	50	5
BME 216	Embedded System Design	20	10	10	30	20	90	9
BME 217	Industrial Practical Training II	10	10	10	30	40	100	10
Total							650	65
Semester 5 (65 Credits)								



Course Code	Course Name	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignm ent (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>BME 301</b>	Differential Equations and Numerical Analysis	20	20	10	10	10	70	7
BME 302	Digital Signal Processing	30	20	10	20	10	90	9
BME 303	Graphical Programming	30	10	10	10	40	100	10
BME 304	Biomaterials	30	10	10	20	20	90	9
BME 305	Fundamental of Biomedical Instrumentations	20	40	10	10	40	120	12
BME 306	Static and Dynamic of Biological Fluids	30	20	10	30	10	100	10
BME 307	Health Information System	20	10	10	20	20	80	8
<b>Total</b>							<b>650</b>	<b>65</b>

**Semester 6 (64 Credits)**

Code	Course Name	Lecture (Hrs)	Tutorial/ Seminar	Assignm ent (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>BME 308</b>	Professionalism and Ethics	30	10	10	10	10	70	7
BME 309	Ergonometics	30	20	10	10	10	80	8
BME 310	Biomechanics	30	10	10	20	10	80	8
BME 311	Application of Biomedical Instrumentation	20	40	10	10	40	120	12

BME 312	Genetics and Biotechnology	20	10	10	10	10	60	6
BME 313	Law for Engineers	30	10	10	10	-	60	6
BME 407	Theory of Social Development and Critical Issues in Health	30	10	10	10	10	70	7
BME 315	Industrial Practical Training III	10	10	10	30	40	100	10
<b>Total</b>							<b>640</b>	<b>64</b>

### Semester 7 (65 Credits)

Code	Course Name	Lecture (Hrs)	Tutorial/Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
BME 401	Development of Medical devices	30	20	20	10	10	90	9
BME 402	Medical Immunology	30	10	10	20	20	90	9
BME 403	Rehabilitation technology	30	10	10	30	20	100	10
BME 404	Medical Imaging System	20	20	10	10	10	70	7
BME 405	Drugs and Diseases	30	10	10	20	10	80	8
BME 406	Research Project I	20	5	5	20	170	220	22
<b>Total</b>							<b>650</b>	<b>65</b>

### Semester 8 (74 Credits)

Course	Course Name	Lecture (Hrs)	Tutorial/Seminar	Assignment	Independent	Practical (Hrs)	Total	Credits
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Code		Lecture (Hrs)		Tutorial (Hrs)		Practical (Hrs)		Total (Hrs)	
BME 314	Health Systems and Development Trends	30	20	10	10	20	90	9	
BME 408	Microsystem Technology	20	10	10	5	5	50	5	
BME 409	Biomedical Automation and Robotics	30	20	10	20	10	100	10	
BME 410	Quality Assurance in Medical Devices	20	10	10	5	5	50	5	
BME 411	Management and Entrepreneurship for Biomedical Engineers	20	10	10	10	10	60	6	
BME 412	Environment and Safety Engineering	30	10	10	15	5	70	7	
BME 413	Research Project II	20	10	10	10	270	320	32	
Total						740		74	

### 2.2.3.2 Examination Regulations for the BBME Degree Programme

- (i) General University examination regulations on registration, regulation for examinations, professional conduct, eligibility for examinations, absence from examinations, board of examiners, conduct of examinations, examination irregularities, procedures for appeals and preservation of scripts, shall remain as stipulated in Chapter One.
- (ii) The BBME is an 8-semester degree programme and the maximum tenure is 10 semesters.
- (iii) Registration of full-time students shall be done once at the beginning of each semester.
- (iv) For each course taught in the semester, there shall be at least two continuous assessment tests (CAT) and regular assessment of competencies in each module or modular course. The CAT shall constitute the Formative Assessment (FA) whereas the end of module assessment shall constitute the SA.
- (v) The FA shall constitute 50% of the final grade in the end of module/modular course University examinations.
- (vi) The FA and SA shall consist of written (MCQ, Short Essays, Long essays, quizzes, graded field reports, graded assignments, graded presentations and other similar written assessments), skills and attitude components (multi- source observation and rating of performances, Objective Structure Practical Examination (OSPE), logbooks, peer evaluation, self-assessment). The proportional contribution for written and practical examinations will be in accordance with individual course/module requirements.
- (vii) Candidate will be considered to have passed a course after passing all modules/rotations of the respective course.
- (viii) A candidate who obtains a C grade or higher in all modules/courses examined in a semester shall be declared to have passed the examination and will be allowed to proceed to the next semester.
- (ix) A candidate who obtains a GPA of less than 1.6 at the end of the audit year shall be discontinued from studies.
- (x) A candidate who fails three or more courses in any semester or in an audit year during semesters one (1) to four (4), shall be discontinued from studies regardless of GPA.
- (xi) A candidate who passes the examination with a C grade or higher will be declared to have passed the examination.
- (xii) A candidate who scores a GPA of 1.6 or higher, but fails in two course(s) or less shall be required to supplement the failed modules in the course(s) in October, before the start of new Academic year for Semester 1 – 4 and when next offered for Semester 5 – 8.
- (xiii) A candidate who fails the first supplementary during semesters one (1) to two (2) shall be allowed to carry-over and proceed to the next semester and sit for a second supplementary in the failed modules, when next offered provided that he/she obtains a GPA

- of 1.8 or more during the first supplementary.
- (xiv) A candidate who fails the first supplementary examination in semesters 3 and 4 shall be allowed to freeze registration and appear for another supplementary examination when next offered provided she/he has a GPA of 1.8. In this case, the maximum freezing period shall be 2 semesters. A student who fails to clear the failed modules/courses within the two semesters shall be discontinued
  - (xv) A candidate who fails the second supplementary examination in semesters 1 to 4 shall be discontinued from studies, except in special circumstances, if recommended by the School Board and Senate Undergraduate Education Committee and approved by the University Senate.
  - (xvi) A candidate who fails the second supplementary examination in semesters 5 to 8 shall be allowed to supplement the failed courses when next offered provided the maximum tenure of ten (10) semesters is not exceeded.
  - (xvii) To progress to semester 7, the candidate must pass of courses in semester five (5) and semester six (6)
  - (xviii) A candidate who passes a supplementary examination at any level shall be awarded a “C” grade equivalent to 2.0 grade points.
  - (xix) A candidate failing the final research project examination in semester 8 shall be allowed to resubmit a complete research project report for re-examination within the time specified by the examiners provided the maximum tenure of ten (10) semesters is not exceeded.
  - (xx) A candidate will be awarded the BBME degree after passing all the prescribed courses in the programme including the research project.
  - (xxi) The BBME degree shall be classified.

### 2.2.3.2 Grading and Classification of BBME Degree Programme

The weighting of modules contributing to the degree classification shall be based on the number of Credits for each module from semester 1 to semester 8 as shown below: -

Letter grade	A	B+	B	C*	D	E
Grade points	5.0 - 4.4	4.3 - 3.5	3.4 - 2.7	2.6 - 2.0	1.9 - 1.5	1.4 - 0.0
Marks %	100 - 75%	74 - 70%	69 - 60%	59 - 50%	49 - 40%	39 - 0%

\*Pass mark



*MUHAS students and surgical team in a clinical practical session*





*MUHAS students and Junior Surgeons from surgical team in a clinical practical session under supervision of senior surgeons*

## 2.2.4 Bachelor of Science (BSc) in Physiotherapy Programme

The Bachelor of Science in Physiotherapy (BSc. Physiotherapy) Programme consists of a training that lasts for eight semesters. The first four semesters are mainly devoted to lectures and practicals in basic sciences. In the third and fourth semesters students will attend lectures, applied research methods and undertake practicals/clinical rotations. In the fifth to eighth semesters, students will receive practical/clinical training, research and field work.

### 2.2.4.1 BSc Physiotherapy Degree Programme courses

Course code	Name of the Programme	Core or elective	Lecture (Hrs)	Tutorial /Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>Semester 1: 65.8 Credits</b>									
<b>AN100</b>	Gross Anatomy and Histology	Core	109	24	44	24	100	301	30.1
<b>BC100</b>	Biochemistry and Molecular Biology	Core	80	10	5	5	100	200	20.1
<b>IT 100</b>	ICT and Communication skills	Core	30	5	5	5	35	80	8.0
<b>PF100</b>	Professionalism and ethics in Health and Research	Core	10	10	10	20	27	77	7.7
<b>Semester 2: 65.8 Credits</b>									

<b>AN110</b>	Dissectional Anatomy and Embryology	Core	39	10	20	30	145	244	24.4
<b>PH100</b>	Physiology	Core	170	-	10	10	40	230	29.0
<b>BS110</b>	Behavioural science	Core	100	25	-	-	-	125	12.5
<b>PT220</b>	Basic Movement science	Core	36	10	3	-	10	59	5.9
<b>Semester 3: 65.8 Credits</b>									
<b>DS200</b>	Health System and Development	Core	60	15	15	10	-	100	10.0
<b>MI201</b>	Introduction to microbiology and immunology	Core	94	28	19	19	132	292	19.4
<b>ER200</b>	Epidemiology Biostatistics & research Methods	CORE	81	5	10	10	10	116	11.6
<b>PE200</b>	Introduction to parasitology and entomology	Core	60	15	15	30	30	150	15.0
<b>Semester 4: 65.8 Credits</b>									
<b>MP200</b>	Pathology	Core	40	5	-	5	50	100	10.0
<b>PT211</b>	Physiotherapy techniques	Core	70	10	20	-	100	200	20.0
<b>PT302</b>	Clinical rotations	Core	-	10	-	-	100	110	11.0
<b>CP200</b>	Basic and clinical pharmacology	Core	70	80	17	21	60	248	24.8
<b>Semester 5: 65.8 Credits</b>									
<b>PT323</b>	Clinical paediatric physiotherapy	Core	70	20	10	10	70	180	18
<b>RO300</b>	Radiobiology	Core	80	20	-	26	25	151	15.1
<b>PT224</b>	Medical exercise therapy	Core	70	10	6	-	76	162	16.2
<b>PT121</b>	Introduction to Physiotherapy: clinical reasoning	Core	80	20	5	10	50	165	16.5
<b>Semester 6: 65.8 Credits</b>									
<b>MT300</b>	Management And entrepreneurship	Core	42	0	10	17	0	69	6.9

<b>ME310</b>	Research Proposal Development	Core	10	10	5	5	20	50	5.0
<b>PT221</b>	Disability and rehabilitation	Core	100	57	25	19	80	281	28.1
<b>PT125</b>	Public/Community Health	Core	80	50	4	4	120	258	25.8
<b>Semester 7: 65.8 Credits</b>									
<b>PT 400</b>	Research project	Core	16	10	10	30	60	126	12.6
<b>PT401</b>	Critical and palliative care	Core	24	25	12	12	70	143	14.3
<b>PT402</b>	Health management and administration	Core	18	30	10	15	60	133	13.3
<b>PT404</b>	Field work practicum	Core	0	0	0	0	256	256	25.6
<b>Semester 8: 65.8 Credits</b>									
<b>PT303</b>	Advanced Movement science & Sports physiotherapy	Core	20	10	10	10	30	80	8.0
<b>PT308</b>	Applied physiotherapy: neurology	Core	20	6	4	5	10	45	4.5
<b>PT407</b>	Clinical attachment	Core	-	20	25	36	60	141	14.1
<b>PT400</b>	Research project	Core	0	113	0	23	256	392	39.2

### 2.2.4.2 Examination regulations for BSc. Physiotherapy Programme

- (i) General University Examination regulations on registration, professional conduct, 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 BSc Physiotherapy is an eight (8) semester programme with the maximum tenure of ten (10) semesters.
- (iii) Registration of full time student shall be once at the beginning of each semester.
- (iv) 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).

- (v) The CA shall contribute 50% of the final grade in the end of module/modular course/rotation university examinations.
- (vi) The CA shall contribute 50% of the final grade in the end of module/modular course university examinations.

The CA and SA shall consist of written (essays/short answer questions, MCQs, quizzes, field reports, assignments, presentations and other similar written assessments) and practical/clinical components (global observation and rating of live/recorded performances, procedures and logbooks, OSPE, OSCE and other similar practical assessments) using appropriate assessment tools.. For pre-clinical courses, the final grade will be constituted by 50% of CA and 50% of SA/FE and the pass mark shall be 50%.

For clinical courses the proportional contribution for written and practical/clinical in SA will be 50% each. The final grade will be determined by the sum of 50% SA/FE and 50% CA which must be passed at C grade or higher. In addition the student will have to pass SA clinical at 50% or above as determined by summation of 40% Clinical CA and 60% Clinical SA. Therefore in order to pass a course both the final grade and the summed practical/clinical CA and SA must be passed separately.

- (vii) A candidate will be considered to have passed a course after passing all modules/rotations of the respective course.
- (viii) A candidate who passes the examination with a C grade or higher will be declared to have passed the examination.
- (ix) A candidate who scores a GPA of 1.6 or higher, but fails in two course(s) or less shall be required to supplement the failed modules in the course(s) in October, before the start of new academic year for Semester 1 to 4 and when next offered for semester 5 to 8.
- (x) A candidate who obtains a GPA of less than 1.6 shall be discontinued from studies.
- (xi) A candidate who fails three or more courses in any semester or in the audit year during semesters one (1) to four (4), shall be discontinued from studies regardless of GPA.
- (xii) A candidate who fails in a first supplementary examination during semester one (1) to two (2) shall be allowed to carry-over the failed module(s) to the next academic audit year and appear for a second supplementary examination in the failed module(s) of the respective course(s) in October provided the GPA is 1.8 or higher.

- (xiii) A candidate who fails the second supplementary examination in semesters one (1) to four (4) shall be discontinued from studies, except in special circumstances, if recommended by the School of Medicine Board and Senate Undergraduate Committee and approved by the University Senate.
- (xiv) A candidate who fails the second supplementary examination in semesters 5 to 8 shall be allowed to supplement the failed modules/modular courses when next offered provided the maximum tenure of ten (10) semesters is not exceeded.
- (xv) No candidate shall be allowed to proceed to semester 5, before clearing all the modules in the semesters 1 to 4 courses.
- (xvi) No candidate shall be allowed to proceed to semester 7, before clearing all the modules in the semesters 5 and 6 courses.
- (xvii) A candidate who has the first supplementary examination in semesters 3 and 4 shall be allowed to freeze studies and appear for another supplementary examination when next offered provided she/he has a GPA of 1.8. In this case, the maximum freezing period shall be 2 semesters. A student who fails to clear the failed modules/modular courses within the two semesters shall be discontinued.
- (xviii) A candidate shall not be considered to have passed any module/ modular course unless and until he/she has passed the practical components of the examination, whereby 50% is from CAT and 50% from the final assessment (SA).
- (xix) A candidate who passes a supplementary examination shall be awarded a "C" grade equivalent to 2.0 grade points.
- (xx) A student shall be awarded the BSc Physiotherapy degree after passing all prescribed courses in the programme.
- (xxi) BSc Physiotherapy is a classified degree.

#### 2.2.4.3 Grading and Classification of Bsc Physiotherapy Degree Programme

The weighting of modules contributing to the degree classification shall be based on the number of Credits for each module from semester 1 to semester 8 as shown below: -

Letter grade	A	B+	B	C*	D	E
Grade points	5.0 - 4.4	4.3 - 3.5	3.4 - 2.7	2.6 - 2.0	1.9 - 1.5	1.4 - 0.0
Marks %	100 - 75%	74 - 70%	69 - 60%	59 - 50%	49 - 40%	39 - 0%

\*Pass mark

## 2.2.5 Bachelor of Medical Laboratory Sciences (BMLS) Degree Programme

The Bachelor of Medical Laboratory Sciences Programme consists of a training that lasts for six semesters. The first two semesters are devoted to lectures and practical in basic sciences. In the third and fourth semesters students will attend lectures, applied research methods and undertake practical in various laboratory science disciplines. In the fifth and sixth semesters students will receive practical training as well as research experience and will be required to develop research proposal and undertake filedwork.



*Bedside teaching: a common modality in a clinical session to impart sufficient skills to medical students. Here, postgraduate residents from the Department of Internal Medicine following up a hands-on practical session on critical care delivery by a visiting Clinical Professor from Yale University at MAMC in February, 2019.*

**2.2.5.1 BMLS 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: 65.8 Credits</b>									
<b>AN 100</b>	Gross Anatomy and Histology	CORE	109	24	44	24	100	301	30.1
<b>BC 100</b>	Biochemistry and Molecular Biology	CORE	80	10	5	5	100	201	20.1
<b>IT 100</b>	ICT & Communication skills	CORE	30	5	5	5	35	80	8.0
<b>PF 110</b>	Professionalism & Ethics in Health and Research	CORE	10	10	10	20	27	77	7.7

Course Code	Course Name	Core or elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>Semester 2: 65.8 Credits</b>									
BS 100	Behavioural Sciences	CORE	100	25	-	-	-	125	12.5
PH 100	Physiology	CORE	170	-	10	10	40	230	23.0
LM 100	Medical Laboratory Practice	CORE	69.4	-	13.6	13.6	69.4	166	16.6
CC 104	Clinical Chemistry	CORE	55	7	6	26	43	137	13.7



Course Code	Course name	Core or Elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>Semester 3: 65.8 Credits</b>									
<b>MI 201</b>	Microbiology/Immunology	CORE	94	28	19	19	132	292	29.2
<b>PE 200</b>	Parasitology & Entomology	CORE	60	15	15	30	30	120	12.0
<b>ER 200</b>	Epidemiology Biostatistics & research Methods	CORE	81	5	10	10	10	116	11.6
<b>DS 200</b>	Health Systems and Development	CORE	60	15	15	10	-	100	10.0
<b>Semester 4: 65.8 Credits</b>									
<b>MP 201</b>	Pathology Principles, Histotechnology and Cytology	CORE	128	31	25	15	59	258	25.8
<b>HB 201</b>	Haematology and Blood Transfusion	CORE	15	8	5	5	17	50	5.0
<b>LM 301</b>	Laboratory Management	CORE	46	17	12	12	25	112	11.2
<b>FT 300</b>	Forensic Science and Toxicology	CORE	34	12	0	20	32	98	9.8
<b>RP 201</b>	Research Proposal development	CORE	0	0	10	130	0	140	14.0



Course Code	Course code/name	Core or Elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
<b>Semester 5 and 6: 131.6 Credits</b>									
<b>LM 302</b>	Medical laboratory practice in Microbiology and Immunology	CORE	-	33	6	6	139	184	18.4
<b>LM 307</b>	Medical Laboratory practice in Parasitology and Entomology	CORE	17.5	17.5	17.5	17.5	114	184	18.4
<b>LM 303</b>	Medical Laboratory practice in Haematology and Blood Transfusion	CORE	30	33	6	10	105	184	18.4
<b>LM 304</b>	Medical Laboratory practice in Clinical Chemistry	CORE	61	5	11	17	90	184	18.4
<b>LM 305</b>	Medical Laboratory practice in Histotechnology, Cytology	CORE	45	22	7	10	100	184	18.4
<b>LM 306</b>	Medical Laboratory practice in Molecular Diagnostics	CORE	18	18	18	18	112	184	18.4
<b>RP 202</b>	Research, data analysis and reporting	CORE	-	-	12	60	-	72	7.2
<b>FW 300</b>	Field Work	CORE	-	-	10		130	140	14.0
<b>Total</b>			171.5	128.5	87.5	138.5	790	1316	131.6

### 2.2.5.2 Examination regulations for BMLS programme

- (i) General University Examination regulations on registration, professional conduct, 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 BMLS is a six (6) semester programme with the maximum tenure of eight (8) semesters.
- (iii) Registration of full time student shall be once at the beginning of each semester.
- (iv) 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).
- (v) The CA shall contribute 50% of the final grade in the end of module/modular course/rotation university examinations. The CA and SA shall consist of written (essays/short answer questions, MCQs, quizzes, field reports, assignments, presentations and other similar written assessments) and practical/clinical components (global observation and rating of live/recorded performances, procedures and logbooks, OSPE, and other similar practical assessments) using appropriate assessment tools. The proportional contribution for written and practical/clinical in SA will be 50% each. The final grade will be determined by the sum of 50% SA/FE and 50% CA which must be passed at C grade or higher. In addition the student will have to pass SA practical/clinical at 50% or above as determined by summation of 40% practical/clinical CA and 60% practical/clinical SA. Therefore in order to pass a course both the final grade and the summed practical/clinical CA and SA must be passed separately
- (vi) A candidate will be considered to have passed a course after passing all modules/rotations of the respective course.
- (vii) A candidate who passes the examination with a C grade or higher will be declared to have passed the examination.
- (viii) A candidate who scores a GPA of 1.6 or higher, but fails in two course(s) or less shall be required to supplement the failed modules in the course(s) in October, before the start of new academic year for Semester 1 to 4 and when next offered for semester 5 to 6.

- (ix) A candidate who obtains a GPA of less than 1.6 shall be discontinued from studies.
- (x) A candidate who fails three or more courses in any semester or in the audit year during semesters one (1) to two (2), shall be discontinued from studies regardless of GPA.
- (xi) A candidate who fails three or more courses in any semester or in the audit year during semesters three (3) to four (4), shall be allowed to supplement in October provided he/she obtains a GP of 1.6 or higher.
- (xii) A candidate who fails in a first supplementary examination during semesters one (1) to two (2) shall be allowed to carry-over the failed module(s) to the next academic audit year and appear for a second supplementary examination in the failed module(s) of the respective course(s) in October provided the GPA is 1.8 or higher.
- (xiii) A candidate who fails the second supplementary examination in semesters one (1) to four (4) shall be discontinued from studies, except in special circumstances, if recommended by the School of Medicine Board and Senate Undergraduate Committee and approved by the University Senate.
- (xiv) A candidate who fails the second supplementary examination in semesters 5 to 6 shall be allowed to supplement the failed courses when next offered provided the maximum tenure of eight (8) semesters is not exceeded.
- (xv) No candidate shall be allowed to proceed to semester 5, before clearing all the modules in the semesters 1 to 4 courses.
- (xvi) A candidate who has the first supplementary examination in semesters 3 and 4 shall be allowed to freeze studies and appear for second supplementary examination when next offered provided she/he has a GPA of 1.8. In this case, the maximum freezing period shall be 2 semesters. A student who fails to clear the failed modules/courses within the two semesters shall be discontinued
- (xvii) A candidate shall not be considered to have passed any module/ modular course or course unless and until he/she has passed the practical components of the examination, whereby 50% is from CAT and 50% from the final assessment.
- (xviii) A candidate who passes a supplementary examination at any level shall be awarded a "C" grade equivalent to 2.0 grade points.
- (xix) A student shall be awarded the BMLS degree after passing all prescribed courses in the programme.
- (xx) BMLS is a classified degree.

### 2.2.5.3 Grading and Classification of BMLS Degree Programme

The weighting of modules contributing to the degree classification shall be based on the number of Credits for each module from semester 1 to semester 6 as shown below: -

Letter grade	A	B+	B	C	D	E
<b>Grade points</b>	5.0 - 4.4	4.3 - 3.5	3.4 - 2.7	2.6 - 2.0	1.9 - 1.5	1.4 - 0.0
<b>Marks %</b>	100 - 75%	74 - 70%	69 - 60%	59 - 50%	49 - 40%	39 - 0%

## 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”. The school offers undergraduate and postgraduate studies in the fields 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, modern clinics with state-of-the-art dental chairs, digital dental x-ray machines, instruments for different dental specialties and instruments’ sterilization machines. After completion of the ten-semester undergraduate and six-semester postgraduate programmes, graduates will have opportunities for employment and to participate in research and training of professionals in the field of oral health and oral health related fields.

#### 3.2 UNDERGRADUATE PROGRAMME

##### 3.2.1 Doctor of Dental Surgery (DDS) Degree Programme- MH010

The DDS is competency-based programme covering ten semesters (five years) leading to the DDS degree of this University followed by a year’s internship at an approved hospital. The first four semesters of the programme are devoted to basic sciences and community training. The next six semesters are largely clinical/practical consisting of intensive clinical clerkship in different departments and community health.

### 3.2.1.1 DDS 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: 65.8 Credits</b>									
AN 100	Gross Anatomy and Histology	CORE	109	0	20	24	65	218	21.8
BC 100	Biochemistry & Molecular Biology	CORE	100	25	20	20	90	255	25.5
IT 100	ICT & Communication skills	CORE	30	0	16	28	34	108	10.8
PF 110	Professionalism & Ethics in Health and Research	CORE	10	10	10	20	27	77	7.7
<b>Semester 2: 65.8 Credits</b>									
AN 110	Dissectional Anatomy and Embryology	CORE	39	0	10	20	115	184	18.4
BC 110	Behavioural science	CORE	100	25	0	0	0	125	12.5
EO 100	Community Health Organization	CORE	23.6	23.6	5.9	5.9	0	59	5.9
PH 100	Physiology	CORE	174	0	29	29	58	290	29.0
<b>Semester 3: 65.8 Credits</b>									
MI 201	Microbiology/ Immunology	CORE	94	0	9	9	82	194	19.4
PE 201	Parasitology & Entomology	CORE	61	15	15	30	30	151	15.1
ER 200	Biostatistics & Epidemiology	CORE	90	25	18	12	60	205	20.5





DS 200	Health Systems and Development	CORE	59	15	15	19	0	108	10.8
<b>Semester 4: 65.8 Credits</b>									
EO 204	Community Health Practice	CORE	0	9	0	4	57	70	7.0
CP 200	Basic and Clinical Pharmacology	CORE	40	80	17	20	60	217	21.7
MP 200	Pathology	CORE	170	27	0	20	54	271	27.1
OP 200	Pathology	CORE	17	8	5	10	10	50	5.0
HB 201	Haematology and Blood Transfusion	CORE	15	8	5	5	17	50	5.0
<b>Semester 5: 66.0 Credits</b>									
<b>MD 300</b>	Management of Diseases	CORE	297	0	51	108	51	507	50.7
<b>DM300</b>	Dental Materials	CORE	7	3	3	3	40	50	5.0
<b>DE300</b>	Pre-clinical Dentistry	CORE	10	0	5	8	80	103	10.3
<b>Semester 6: 60.6 Credits</b>									
PF 300	Professionalism and Ethics in Medical Practice	CORE	12	12	24	24	65	137	13.7
OS 300	Fundamentals in Oral and Maxillofacial Surgery	CORE	60	20	10	10	100	200	20.0
RO 301	Oral radiology	CORE	10	0	6	4	30	50	5.0
MC 301	Non-communicable diseases <i>control</i> (including Nutrition field work)	CORE	52	5	5	5	35	102	10.2
ME 310	Research Proposal Development	CORE	10	10	5	5	20	50	5.0

OM 300	Occupational Medicine	CORE	24	12	6	4	6	52	5.2
MT 300	Management and Entrepreneurship	CORE	42	0	10	17	0	69	6.9
<b>Semester 7 (Junior Rotation): 64.8 Credits</b>									
OS 400	Oral Surgery	CORE	90	30	15	15	150	300	30.0
PR 400	Periodontology	CORE	9.8	19.7	19.7	9.8	78.8	138	13.8
OD 400	Operative Dentistry	CORE	44	22	11	11	132	220	22
<b>Semester 8 (Junior Rotation): 64.8 Credits</b>									
PO 400	Prosthodontics	CORE	62	18	9	9	100	198	19.8
OR 400	Orthodontics	CORE	61	12	6	6	35	120	12.0
DC 400	Paediatric Dentistry	CORE	72	18	4.5	4.5	72	180	18.0
CD400	Community Dentistry	CORE	60	37	17.5	7.5	30	150	15.0
<b>Semester 9 (Senior Rotation): 64.8 Credits</b>									
OS 500	Oral Surgery	CORE	20	21	10.5	10.5	148	210	21.0
DC 500	Paediatric Dentistry	CORE	44	11	5.5	5.5	44	110	11.0
PO 500	Prosthodontics	CORE	56	16	8	8	90	178	17.8
OR 500	Orthodontics	CORE	10	15	7.5	7.5	110	150	15.0
<b>Semester 10 (Senior Rotation): 64.8 Credits</b>									
D 500	Operative dentistry	CORE	35	17	8	8	107	175	17.5
PR 500	Periodontology	CORE	11.9	27.7	15.8	7.9	94.8	158	15.8
CD 500	Community Dentistry	CORE	96	41.5	15.75	15.75	146	315	31.5



*Dental services to patient at MUHAS Dental Clinic*

### **3.2.1.2 Examination regulations for the DDS 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 DDS degree is a ten-semester programme and the maximum tenure shall be 14 semesters.
- (iii) Registration of full-time students shall be once at the beginning of each semester.
- (iv) There shall be at least two continuous assessment tests (CAT) and regular assessment of competencies for each module/modular course or rotation 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).

- (v) The CA shall contribute 50% of the final grade in the end of module/modular course/rotation university examinations. The CA and SA shall consist of written and practical/clinical components (MCQ's, Essays, Short answer questions, observation and rating of live/recorded performances, Multisource/global rating, Observation of procedures and rating, peer assessment, portfolio and logbooks, OSPE, OSCE and other assessment using appropriate tools). For pre-clinical courses, the final grade shall constitute 50% of CA and 50% of SA and the pass mark shall be 50%.

For clinical courses the proportional contribution for written and practical/clinical in SA shall be 50% each. The final grade shall be determined by the sum of 50% SA and 50% CA which must be passed at C grade or higher. In addition the student will have to pass SA clinical at 50% or above as determined by summation of 40% Clinical CA and 60% Clinical SA. Therefore, in order to pass a course both the final grade and the summed practical/clinical CA and SA must be passed separately.

- (vi) A candidate will be considered to have passed a course after passing all modules/rotations of the respective course.
- (vii) A candidate who passes the examination with a C grade or higher will be declared to have passed the examination.
- (viii) A candidate who scores a GPA of 1.6 or higher, but fails in courses/modules shall be required to supplement in the failed modules in the course(s) in October before start of new academic year for semester 1-4 and when next offered for semester 5-10.
- (ix) A candidate who obtains a GPA of less than 1.6 in a semester shall be discontinued from studies.
- (x) A candidate who fails three or more courses in any semester or in an audit year during semesters one (1) to four (4) shall be discontinued from studies regardless of GPA. To pass a course a candidate has to pass all modules in that course.
- (xi) A candidate who fails in the first supplementary examination in basic sciences shall be allowed to carry-over the failed module(s) to the next academic year and appear for a second supplementary examination in

- the failed module(s) of the respective course(s) when next offered provided the GPA is 1.8 or higher. A candidate who fails the second supplementary shall be discontinued from studies.
- (xii) No candidate shall be allowed to progress to semester 5 unless and until he/she has passed all course modules in semesters 1 to 4 of the programme.
  - (xiii) No candidate shall be allowed to proceed to the clinical year rotations unless and until he/she has passed all semesters 1 to 4 of the programme.
  - (xiv) A candidate who fails but attains a GPA of 1.8 or higher in the first supplementary examination in semester 3 and 4 shall be allowed to freeze registration and appear for a second supplementary examination when next offered. In this case the maximum freezing period shall be two (2) semesters. A student who fails to clear the failed modules/courses within the two semesters shall be discontinued.
  - (xv) A candidate shall not be considered to have passed any clinical course unless and until he/she has passed the clinical components of the examination, whereby 40% is from CA and 60% from the final examination and the combined contribution by written and clinical examinations separately as per regulation (v) above.
  - (xvi) A candidate who fails junior clerkship clinical rotation in semester five (5) and six (6) shall be required to do a supplementary rotation when next offered. A candidate who fails senior clerkship clinical rotation in semester seven (7) and eight (8) shall be required to supplement the failed rotation when next offered. A candidate who fails clinical rotation in semester nine (9) and ten (10) shall be required to supplement the failed rotation after semester ten (10) provided the 14 semester tenure is not exceeded. The supplementary rotation is half the duration of that rotation except for rotations, which have less than 6 weeks duration for which the period of supplementary rotation will be the full duration. A student who fails a second supplementary in senior clerkship of semester 7-10 clinical rotations shall be allowed to sit for another supplementary after Semester 10, provided that maximum tenure of 14 semesters is not exceeded.
  - (xvii) A candidate who passes a supplementary examination at any level shall be awarded a "C" grade equivalent to 2.0 grade points.
  - (xviii) Progression to semester 9, 10 is subject to completion of clinical rotations and elective period and passing University examinations for semester 7, 8.
  - (xix) A satisfactory elective report from semester 7-8 must be submitted at least 8 weeks prior to the final semester 10 rotation examination, failure of which will deem the candidate ineligible for the final examination.
  - (xx) No student will be allowed to graduate if he/she has not completed all field

work assignments and submitted relevant reports.

- (xvi) A student shall be awarded the DDS degree after passing all prescribed courses in the DDS programme.

### 3.2.1.3 Grading System

Computation of the GPA for the DDS programme 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 DDS degree shall not be classified

Letter grade	A	B+	B	C	D	E
Grade points	5.0 - 4.4	4.3 - 3.5	3.4 - 2.7	2.6 - 2.0	1.9 - 1.5	1.4 - 0.0
Marks %	100 - 75%	74 - 70%	69 - 60%	59 - 50*%	49 - 40%	39 - 0%

*\*Pass mark*

### 3.2.1.4 Regulation of Fieldwork Project Report

3.2.1.5 The students will do community field work on nutrition at the end of semester 4 as a group.

3.2.1.6 There will be community field works in community dentistry during semester 10 as part of training in Preventive and Community Dentistry. This will be divided in two parts; the oral health promotion and preventive activities in primary schools and reproductive health clinics (in group) and another part will be a “regional-dental week” for each individual. Students will be required to produce both individual reports for regional level and group reports for the rest of the field works. The student shall be allowed to do Preventive and Community Dentistry rotation, only after completion of semester 9 rotations.

3.2.1.7 There shall be an elective study for every student at the end of semester 8 as part of Preventive and Community Dentistry rotation. Each student will be assigned to a supervisor, will be required to choose a topic of his/her interest but approved by the supervisor and the department of Preventive and Community Dentistry, carry out research on the topic under the guidance of the supervisor throughout all stages of research conduct from proposal development to acquisition of ethical approval, data collection, data analysis, report writing and dissemination of findings.

3.2.1.8 The elective report will be marked and marks will contribute to the grade of the Preventive and Community Dentistry rotation.

3.2.1.9 No student will be allowed to graduate if he/she has not completed all fieldworks works and providing reports.

## CHAPTER FOUR

### SCHOOL OF PHARMACY

#### 4.2 INTRODUCTION

The School of Pharmacy has over 41 years of experience of training pharmaceutical personnel, thus becoming the oldest higher learning institution in Tanzania that offers Bachelor Degree program. 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 Bachelor of Pharmacy Programme of MUHAS therefore aims to equip the graduate pharmacists with adequate knowledge, skills and attitudes to enable them function as experts in pharmaceutical care and sciences.

The current curriculum has envisioned to put together an education programme that prepares graduates to develop the core competencies required to deliver pharmaceutical services in all branches of pharmacy practice including community pharmacy, hospital pharmacy and patient care, industrial pharmacy, drug development, drug legislation, drug regulation, drug procurement, drug storage, drug distribution, drug quality assurance, drug marketing and pharmaceutical policy formulation.

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 (giz) and Action Medeor. It is the only R&D Laboratory of its kind in East and Central Africa that equips students and faculty with state of the art skills in pharmaceutical manufacturing. Students will not regret to have chosen School of Pharmacy programs.





*Students in Practical Session in the R&D Laboratory at the School of Pharmacy*

## 4.3 UNDERGRADUATE PROGRAMME

### 4.3.1 B. Pharm Degree Programme- MH001

This is eight semesters, four-year competency-based programme leading to the B. Pharm Degree followed by one year of internship at an approved hospital pharmacy.



#### 4.3.1.1 B. Pharm 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: 65.8 Credits</b>									
<b>AN 103</b>	Gross anatomy and Histology for Pharmacy	CORE	109	-	20	24	65	130	13
<b>BC 103</b>	Biochemistry & Molecular Biology	CORE	100	25	20	20	90	200	20
<b>IT 103</b>	ICT & Communication Skills	CORE	30	-	16	28	34	80	8
<b>PF 100</b>	Professionalism & Ethics in Health and Research	CORE	10	10	10	20	27	77	7.7
<b>PG 100</b>	Basic Pharmacognosy & Phytochemical Methods	CORE	75	18	10	12	54	171	17.1
<b>Semester 2: 65.8 Credits</b>									
<b>PC 100</b>	Basics of Medicinal and Pharmaceutical Chemistry	CORE	113	2	8	10	30	163	16.3

<b>BS 100</b>	Behavioural science	CORE	100	25	-	-	-	125	12.5
<b>PT 100</b>	Physical Pharmacy and Unit Processes	CORE	104	4	9	3	20	140	14
<b>PH 103</b>	Medical Physiology	CORE	170	-	10	10	40	230	23
<b>Semester 3: 65.8 Credits</b>									
<b>PL 200</b>	Pharmacology	CORE	100	20	15	10	30	175	17.5
<b>PE 203</b>	Parasitology & Entomology	CORE	60	10	10	10	30	120	12
<b>ER 203</b>	Biostatistics & Epidemiology	CORE	80	7	4	4	21	116	11.6
<b>PG 200</b>	Natural Products of Medicinal Importance	CORE	72	12	5	6	54	147	14.7
<b>DS 203</b>	Health Systems and Development	CORE	59	15	15	19	-	100	10
<b>Semester 4: 65.8 Credits</b>									
<b>PC 200</b>	Spectroscopy and Chemotherapeutic Agents	CORE	86	5	3	4	40	138	13.8
<b>PT 200</b>	Principles of Pharmaceutical Formulations	CORE	40	80	17	20	60	100	10
<b>MP 203</b>	Principles of Pathology	CORE	170	27	-	20	54	100	10
<b>PP 200</b>	Compounding and Dispensing Practice	CORE	78	5	3	4	40	130	13



<b>HB 201</b>	Haematology and Blood Transfusion	CORE	15	8	5	5	17	50	5
<b>PB 200</b>	Basic Pharmaceutical Microbiology	CORE	88	5	3	4	40	140	14
<b>Semester 5: 65.8 Credits</b>									
<b>PG 300</b>	Applied Pharmacognosy	CORE	70	10	8	12	66	166	16.6
<b>PT 301</b>	Dosage Form Design and Good Manufacturing Practices	CORE	80	10	10	8	68	172	17.2
<b>PP 301</b>	Community Pharmacy and Nutrition	CORE	72	15	14	10	53	160	16
<b>PL 300</b>	Therapeutics	CORE	30	60	10	15	45	160	16
<b>Semester 6: 65.8 Credits</b>									
<b>PP 302</b>	Supply Chain, Pharmacoeconomics and Pharmacy Laws	CORE	64	6	5	10	20	105	10.5
<b>PC 300</b>	Pharmacodynamic agents and Quality Assurance	CORE	90	15	4	12	63	184	18.4
<b>PT 302</b>	Biopharmaceutics and Pharmacokinetics	CORE	70	5	2	10	50	137	13.7
<b>PB 300</b>	Applied Pharmaceutical Microbiology	CORE	90	8	4	10	51	163	16.3

<b>MT 300</b>	Management, leadership and entrepreneurship	CORE	42	0	10	17	0	69	6.9
<b>Semester 7: 65.8 Credits</b>									
<b>RP 401</b>	Research Design and Development	CORE	2	2	2	25	307	338	33.8
<b>FW 400</b>	Practice-based Fieldwork	CORE	4	0	0	36	280	320	32
<b>Semester 8: 65.8 Credits</b>									
<b>RP 402</b>	Research Report Writing and Dissemination of Findings	CORE	2	1	3	4	180	190	19
<b>PF 401</b>	Hospital Pharmacy Clerkship	CORE	1	1	2	5	147	156	15.6
<b>PF 402</b>	Clinical Pharmacy Clerkship	CORE	1	1	2	5	147	156	15.6
<b>PF 403</b>	Hospital Stewardship Rotations	CORE	1	1	2	5	147	156	15.6

#### **4.3.1.2 Examination Regulations for the B. Pharm Degree Programme**

- (i) General University examination regulations on registration, regulation for examinations, professional conduct, eligibility for examinations, absence from examinations, board of examiners, conduct of examinations, examination irregularities, procedures for appeals and preservation of scripts, shall remain as stipulated in Chapter One.
- (ii) The B. Pharm is an 8-semester degree programme and the maximum tenure is ten (10) semesters.
- (iii) Registration of full time students shall be done once at the beginning of each semester.
- (iv) For each course taught in the semester, there shall be at least two continuous assessment tests (CAT) and regular assessment of competencies in each module or modular course. The CAT shall constitute the Formative Assessment (FA) whereas the end of module assessment shall constitute the SA.
- (v) The CA shall contribute 50% of the final grade in the end of module/modular course University examination..
- (vi) The CA and SA shall consist of written (MCQ, Short Essays, Long essays, quizzes, graded field reports, graded assignments, graded presentations and others), skills and attitude components (multi- source observation and rating of performances, Objective Structure Practical Examination (OSPE), logbooks, peer evaluation, self-assessment). The proportional contribution for written and practical examinations will be in accordance with individual course/module requirements.
- (vii) Candidate will be considered to have passed a course after passing all modules of the respective course.
- (viii) A candidate who obtains a C grade or higher in all modules/courses examined in a semester shall be declared to have passed the examination and will be allowed to proceed to the next semester.
- (ix) A candidate who obtains a GPA of less than 1.6 at the end of the audit year shall be discontinued from studies.
- (x) A candidate who fails three or more courses in any semester or in an audit year during semesters one (1) to four (4), shall be discontinued from studies regardless of GPA.
- (xi) A candidate who scores a GPA of 1.6 or higher, but fails in two course(s) or less shall be required to supplement the failed modules in the course(s) in October, before the start of new academic year for Semester 1 to 4 and when next offered for semester 5 to 8.
- .
- (xii) A candidate who fails the first supplementary in semester 3 and 4 shall be allowed to freeze registration and appear for a second supplementary examination when next offered provided that he/she obtains a GPA of 1.8 or more during the first supplementary. The maximum freezing period shall be 2 semesters.
- (xiii) A candidate who fails the second supplementary examination in semesters 1 to 4 shall be discontinued from studies, except in special circumstances, if recommended by the School Board and Senate Undergraduate Education Committee and approved by the University Senate.
- (xiv) A candidate who fails the second supplementary examination in semesters 5 to 8, shall be allowed to supplement the failed courses when next

offered provided the maximum tenure of ten (10) semesters is not exceeded.

- (xv) No candidate shall proceed to semester 7 without passing all courses in semester 5 and 6.
- (xvi) A candidate who passes a supplementary examination at any level shall be awarded a “C” grade equivalent to 2.0 grade points.
- (xvii) A candidate failing the final research project examination in semester 8 shall be allowed to resubmit a complete research project report for re-examination within the time specified by the examiners provided the maximum tenure of ten (10) semesters is not exceeded.
- (xviii) A candidate will be awarded the B. Pharm degree after passing all the prescribed courses in the programme including the research project.
- (xix) The B. Pharm degree shall be classified.

#### 4.3.1.3 Grading and Degree Classification System

The weighting of modules contributing to the degree classification shall be based on the number of Credits for each module from semester 1 to semester 8 as shown below: -

Letter grade	A	B+	B	C	D	E
Grade points	5.0 - 4.4	4.3 - 3.5	3.4 - 2.7	2.6 - 2.0	1.9 - 1.5	1.4 - 0.0
Marks %	100 - 75%	74 - 70%	69 - 60%	59 - 50%	49 - 40%	39 - 0%

## 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. The School also trained the majority of teachers for other Schools of Nursing in the various Universities in the country.

The School offers undergraduate programmes in the Bachelor of Science in Nursing (BSc.N), Bachelor of Science in Nurse Anaesthesia (BSc.NA) and Bachelor of Science in Midwifery (BSc.M). These programmes are available for both direct entrants and post registered nurses who want to advance their careers. Graduates of these programmes are provided with opportunity for professional growth, including clinical decision making reflective and problem-solving skills and critical thinking. At present, nurses have an extended role in health services delivery including educator, researcher and policy makers.

#### 5.2 UNDERGRADUATE PROGRAMMES

##### 5.2.1 BSc Nursing Degree Programme- MH009

This is an eight semesters (four years) competency-based programme leading to the Bachelor of Science in nursing degree of this University, followed by a one-year internship at an approved hospital.





*Bed side teaching and learning is among approaches in imparting knowledge and skills to aspiring students*



*A lecturer conveying a professional message to Nursing students in the Simulation Laboratory*

**5.2.1.1 BSc. Nursing 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: 65.8 Credits</b>									
<b>AN 100</b>	Gross Anatomy and Histology	Core	109	24	44	24	100	301	30.1
<b>BC100</b>	Biochemistry and Molecular Biology	Core	80	10	5	5	100	200	20.0
<b>IT100</b>	ICT & Communication skills	Core	30	5	5	5	35	80	8.0
<b>PF100</b>	Professionalism & Ethics in Health and Research	Core	10	10	10	20	27	77	7.7
<b>Semester 2: 65.8 Credits</b>									
<b>PH100</b>	Physiology	Core	170	0	10	10	40	230	23.0
<b>BS100</b>	Behavioural Sciences	Core	100	25	0	0	0	125	12.5
<b>PN100</b>	Principles of Nursing	Core	40	15	15	10	223	303	30.3
<b>Semester 3: 65.8 Credits</b>									
<b>MI200</b>	Microbiology &	Core	94	28	19	19	132	292	29.2

	Immunology								
<b>PE200</b>	Parasitology & Entomology	Core	60	15	15	30	30	150	15.0
<b>ER200</b>	Biostatistics & Epidemiology	Core	81	5	10	10	10	116	11.6
<b>DS200</b>	Health <b>System</b> and Development	Core	60	15	15	10	0	100	10.0
<b>Semester: 65.8 Credits</b>									
<b>CP200</b>	Basic & Clinical Pharmacology	Core	70	80	17	21	60	248	24.8
<b>MT200</b>	Management & Entrepreneurship	Core	42	0	10	17	0	69	6.9
<b>TL200</b>	Teaching and Learning in Clinical Practice	Core	10	5	5	5	65	90	9.0
<b>NC200</b>	Community Health Nursing	Core	20	10	21	10	100	161	16.1
<b>NT200</b>	Basic and Clinical Nutrition	Core	10	5	5	5	65	90	9.0
<b>Semester 5: 65.8 Credits</b>									
<b>MN300</b>	Medical Nursing	Core	70	20	20	42	228	380	38.0
<b>SN300</b>	Surgical Nursing	Core	35	20	10	35	178	278	27.8



**Semester 6: 65.8 Credits**

<b>NM300</b>	Midwifery	Core	75	16	15	24	230	360	36.0
<b>NH300</b>	Mental Health & Psychiatric Nursing	Core	54	5	5	6	158	228	22.8
<b>NR300</b>	Research Proposal Development	Core	10	10	5	5	40	70	7.0

**Semester 7: 65.8 Credits**

<b>NP400</b>	Paediatric Nursing	Core	60	5	5	14	154	238	23.8
<b>NC400</b>	Community Health Nursing Field	Core	4	5	5	6	190	210	21.0
<b>NF400</b>	Forensic & Community Psychiatry	Core	4	5	5	6	190	220	22.0

**Semester 8: 65.8 Credits**

<b>NR400</b>	Research Report Writing	Core	10	10	10	10	100	140	14.0
<b>EC400</b>	Emergency Care	Core	10	5	5	10	110	140	14.0
<b>CE400</b>	Critical Care	Core	70	10	10	10	278	378	37.8



*Nursing Students and a Teacher in a clinical session*

### **5.2.2 BSc Nurse Anaesthesia Degree Programme-MH015**

This is an eight semester (four years) competency-based programme leading to the Bachelor of Science in Nurse Anaesthesia degree of this University followed by a one-year internship at an approved hospital.



Course code	Course name	Core or Elective	Lecture (Hrs)	Tutorial/ Seminar (Hrs)	Assignment (Hrs)	Independent Study (Hrs)	Practical (Hrs)	Total (Hrs)	Credits
Semester 1: 60.0 Credits									
PF100	Professionalism & Ethics in Health Sciences	Core	32	2	10	16	16	76	7.6
BC102	Principles of Biochemistry	Core	55	5	5	5	40	110	11.0
AN 102	Human Anatomy	Core	70	10	6	8	50	144	14.4
PH 102	Basic Physiology	Core	100	5	5	5	74	189	18.9
CS100	Communication Skills	Core	45	5	5	5	21	81	8.1
Semester 2: 60.0 Credits									
DS 100	Theories of Social Development & Critical issues in Health	Core	55	15	20	12	0	102	10.2
IT100	Information and Learning Technologies	Core	50	7	10	10	55	132	13.2
PH 101	Clinical Physiology	Core	30	2	3	15	50	100	10.0
NC 100	Professional Communication Skills	Core	40	2	15	15	34	106	10.6
CP 200	Clinical Pharmacology	Core	100	6	6	8	40	160	16.0
Semester 3: 68.0 Credits									

<b>MI200</b>	Microbiology and Immunology	Core	110	2	3	3	80	198	19.8
<b>PE 200</b>	Parasitology/Entomology	Core	60	0	5	5	40	110	11.0
<b>DS 200</b>	Health Systems & Development Trends	Core	55	15	15	17	0	102	10.2
<b>BS 200</b>	Medical Sociology and Health Psychology	Core	80	5	5	5	5	100	10.0
<b>ER 200</b>	Epidemiology and Research Methodology	Core	40	2	3	5	40	90	9.0
<b>NE 200:</b>	Nursing Ethics	Core	50	5	10	10	5	80	8.0
<b>Semester 4: 60.0 Credits</b>									
<b>NA 200</b>	Principle of Safe Anaesthesia	Core	100	22	32	43	343	530	53.0
<b>ER300</b>	Biostatistics and Demography	Core	40	3	3	4	20	70	7.0
<b>Semester 5: 70.0 Credits</b>									
<b>CE 300</b>	Basic Critical Care	Core	48	2	15	15	90	170	17.0
<b>EN 300</b>	Basic Emergency Care	Core	47	3	5	5	90	150	15.0
<b>PE 300</b>	Principle of Operating Anaesthetic Equipment	Core	72	4	20	20	54	170	17.0
<b>HA 300</b>	Health Information Systems and Medical Records	Core	50	5	10	5	30	100	10.0
<b>NT 300</b>	Teaching and Learning in Clinical Practice	Core	45	1	2	2	60	110	11.0



**Semester 6: 63.8 Credits**

<b>OB 300</b>	Obstetric Anaesthesia	Core	36	18	36	18	90	198	19.8
<b>PA 300</b>	Peri-Operative Anaesthesia Management	Core	36	36	54	18	108	190	19.0
<b>SA 300</b>	General Surgical Anaesthesia	Core	36	18	36	18	144	250	25.0

**Semester 7: 60.0 Credits**

<b>ER 400</b>	Elective Research	Core	42	4	14	10	70	140	14.0
<b>FA 400</b>	Field attachment	Core	2	0	100	0	138	240	24.0
<b>AC 400</b>	Anaesthesia & Co-morbidities	Core	80	5	20	15	100	220	22.0

**Semester 8: 60.0 Credits**

<b>SP 400</b>	Anaesthesia for special Population and specialized surgical procedures	Core	110	3	8	15	320	456	45.6
<b>NL 400</b>	Leadership and Management	Core	45	3	12	12	72	144	14.4



### 5.2.3 BSc Midwifery Degree Programme- MH012

This is an eight-semester (4 years) programme. The basic science courses are taught during the first four semesters while nursing and midwifery courses are done over the entire training period. The training will lead to the Bachelor of Sciences in Midwifery degree of this University. followed by a one-year internship at an approved hospital.

#### 5.2.3.1. BSc Midwifery Degree Programme Courses

Code	Course	Lectures		Seminars/ Tutorial		Practical		Total	
Semester 1: 57.6 Credits									
BC 102	Principles of Bio-chemistry	60	6.0	0	0	40	4.0	100	10.0
AN 102	Anatomy	80	8.0	0	0	50	5.0	130	13.0
PH 102	Basic Physiology	115	11.5	0	0	74	7.4	189	18.9
CS 100	Basic Communication Skills	60	6.0	0	0	21	2.1	81	8.1
PF 103	Professionalism and Ethics in Health Sciences	50	5.0	0	0	26	2.6	76	7.6
Semester 2: 57.6 Credits									
DS 100	Theories of Social Development and Critical issues in Health	55	5.5	15	1.5	0	0.0	70	7.0
NN 100	Nutrition	100	10.0	0	0	10	1.0	110	11.0
NC 100	Professional Communication Skills	42	4.2	0	0	34	3.4	76	7.6
NP 100	Principles of Nursing	67	6.7	0	0	121	12.1	188	18.8
IT 100	Information and Learning Technologies	57	5.7	0	0	75	7.5	132	13.2
TOTAL		292	19.5	15	0.5	269	6.1	576	57.6
Semester 3: 57.6 Credits									
PE 200	Parasitology/ Entomology	60	6.0	0	0	50	5.0	110	11.0
MI 203	Microbiology/Immunology	110	11.0	0	0	80	8.0	190	19.0
DS 200	Health systems and development trends	55	5.5	15	1.5	0	0	70	7.0
BS 200	Medical Sociology and Health Psychology	100	10.0	0	0	0	0	100	10.0

NE 200	Nursing and Midwifery Ethics	25	2.5	29	2.9	52	5.2	106	10.6
<b>TOTAL</b>		<b>350</b>	<b>35.0</b>	<b>44</b>	<b>4.4</b>	<b>182</b>	<b>18.2</b>	<b>576</b>	<b>57.6</b>
<b>Semester 4: 57.6 credits</b>									
CP 203	Clinical Pharmacology	106	10.6	0	0	90	9.0	196	19.6
NS 200	Medical Surgical Nursing	60	6.0	15	1.5	100	10.0	175	17.5
RH 200 (I)	Reproductive Health	70	7.0	10	1.0	200	20.0	280	28.0
NT 400	Teaching and Learning in Clinical practice	45	4.5	3	0.3	60	6.0	108	10.8
<b>TOTAL</b>		<b>281</b>	<b>28.1</b>	<b>28</b>	<b>2.8</b>	<b>450</b>	<b>45.0</b>	<b>759</b>	<b>75.9</b>
<b>Semester 5: 57.6 credits</b>									
NM 300	Pregnancy and Childbirth	100	10.0	20	2.0	326	32.6	446	44.6
ER 300.01	Epidemiology and Biostatistics	45	4.5	0	0	45	4.5	90	9.0
CE 300	Basic critical care and Emergency Nursing	90	9.0	10	1.0	110	11.0	210	21.0
<b>TOTAL</b>		<b>235</b>	<b>23.5</b>	<b>30</b>	<b>3.0</b>	<b>481</b>	<b>48.1</b>	<b>746</b>	<b>74.6</b>
<b>Semester 6: 57.6 credits</b>									
ER 300.02	Basic Biostatistics and Demography	35	3.5	0	0.0	35	3.5	70	7.0
NR 302	Basic Research in Nursing and Midwifery	42	4.2	4	0.4	10	1.0	56	5.6
NC 300	Community Midwifery	100	10.0	50	5.0	5	0.5	155	15.5
NO 300	Emergency Obstetric and New born Care	100	10.0	15	1.5	335	33.5	450	45.0
NP 300	Paediatric Nursing	35	3.5	3	0.3	35	3.5	73	7.3
<b>TOTAL</b>		<b>312</b>	<b>31.2</b>	<b>72</b>	<b>7.2</b>	<b>420</b>	<b>42.0</b>	<b>804</b>	<b>80.4</b>
<b>Semester 7: 57.6 credits</b>									
NR 400	Applied Research	15	1.5	8	0.8	110	11.0	133	13.3
*NC 400	Applied Community Midwifery	5	0.5	4	0.4	120	12.0	139	13.9
NO 400	Neonatology and Congenital Malformations in Newborns	100	10.0	30	3.0	185	18.5	315	31.5
NH 400	Introduction to Mental Health and Psychiatric Nursing	50	5.0	10	1.0	80	8.0	140	14.0
<b>TOTAL</b>		<b>170</b>	<b>17.0</b>	<b>52</b>	<b>5.2</b>	<b>495</b>	<b>49.5</b>	<b>717</b>	<b>71.7</b>
<b>Semester 8: 57.6 Credits</b>									
*RH400	Reproductive Health (Field)	5	0.5	4	0.4	166	16.6	175	17.5
NL 400	Nursing Leadership & Management	45	4.5	15	1.5	72	7.2	132	13.2

NM 400	Clinical Midwifery Practicum	10	1.0	30	3.0	400	40.0	440	44.0
<b>TOTAL</b>		<b>60</b>	<b>6.0</b>	<b>49</b>	<b>4.9</b>	<b>638</b>	<b>63.8</b>	<b>747</b>	<b>74.7</b>
*Field work During Holiday									

#### 5.2.4. Examination regulations for the undergraduate Nursing degrees

- (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 BSc Nursing, BSc Nurse Anaesthesia and BSc Midwifery degrees are 8 semester programmes and the maximum tenure shall be ten (10) semesters.
- (iii) Registration for full time students shall be once at the beginning of each semester.
- (iv) The CA shall contribute 50% of the final grade in the end of module/modular course/rotation university examinations.
- (v) The CA and SA shall consist of written and practical/clinical components (MCQ's, Essays, Short answer questions, observation and rating of live/recorded performances, Multisource/global rating, Observation of procedures and rating, peer assessment, portfolio and logbooks, OSPE, OSCE and other assessment using appropriate tools). For pre-clinical courses, the final grade shall constitute 50% of CA and 50% of SA and the pass mark shall be 50%. For clinical courses the proportional contribution for written and practical/clinical in SA shall be 50% each. The final grade shall be determined by the sum of 50% SA and 50% CA which must be passed at C grade or higher. In addition the student will have to pass SA clinical at 50% or above as determined by summation of 40% Clinical CA and 60% Clinical SA. Therefore, in order to pass a course both the final grade and the summed practical/clinical CA and SA must be passed separately.
- (vi) A candidate will be considered to have passed a course after passing all modules/rotations of the respective course.
- (vii) A candidate who fails modules/courses shall be allowed to sit for first supplementary in the failed modules during the long vacation if he/she obtained a GPA of 1.6 or higher.
- (viii) A candidate who obtains a GPA of less than 1.6 at the end of audit year shall be discontinued from studies.
- (ix) A candidate who fails three (3) or more courses in any semester or in an audit

year during semesters one (1) to four (4), shall be discontinued from studies regardless of GPA.

- (x) A candidate who fails the supplementary with a GPA of less than 1.8 shall be discontinued from studies.
- (xi) A candidate who fails the first supplementary in semester 3 and 4 shall be allowed to freeze registration and appear for a second supplementary examination when next offered provided that he/she obtains a GPA of 1.8 or more during the first supplementary. The maximum freezing period shall be 2 semesters.
- (xii) A candidate who fails the second supplementary examination in semesters 1 to 4 shall be discontinued from studies, except in special circumstances, if recommended by the School Board and Senate Undergraduate Education Committee and approved by the University Senate.
- (xiii) A candidate who fails the second supplementary examination in semesters 5 to 8 shall be allowed to supplement the failed courses when next offered provided the maximum tenure of ten (10) semesters is not exceeded.
- (xiv) No candidate shall proceed to semester 7 without passing all courses in semester 5 and 6.
- (xv) A candidate who passes a supplementary examination shall be awarded a C grade equivalent to 2.0 grade points.
- (xvi) A candidate shall not be considered to have passed any clinical course unless and until he/she has passed the clinical components of the examination, whereby 40% is from CA and 60% from the final examination and the combined contribution by written and clinical examinations separately as per regulation (vi) above.
- (xvii) A candidate in semester 7-8 failing a supplementary examination after he/she has attended all prescribed courses shall sit for a second supplementary when next offered, provided the maximum tenure of ten (10) semester is not exceeded.
- (xviii) A student shall be awarded the BSc Nursing or BSc in Midwifery or BSc in Nurse Anaesthesia after passing all prescribed courses.
- (xix) The Bachelor of Science in Nursing, Bachelor of Science in Midwifery and Bachelor of Science in Nurse Anaesthesia degrees shall not be classified.

### **5.2.5 Regulations for Fieldwork and Research Projects**

To qualify for the award of BSc. Nursing and BSc. Midwifery degree, one must pass all semester examinations, the field work and research reports. There will be two field attachments, community health nursing as well as forensic and community psychiatry. The community health field attachments will be done in semester 7. To develop critical thinking and clinical inquiry skills that are key in addressing nursing practices and solving health care related problems. In semester

8 students will develop, and implement.

### 5.2.6 Grading System

The letter grades will be assigned grade point (GP) in accordance with the raw marks attained, as follows:

Letter grade	A	B+	B	C	D	E
Grade points	5.0 - 4.4	4.3 - 3.5	3.4 - 2.7	2.6 - 2.0	1.9 - 1.5	1.4 - 0.0
Marks %	100 -75%	74-70%	69-60%	59-50*%	49-40%	39-0%

*\*Pass mark*

## 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 seven departments: Behavioral Sciences; Community Health; Development Studies; Epidemiology and Biostatistics; Parasitology and Medical Entomology; Environmental and Occupational Health and Bioethics.

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 82 members of staff 43 of these having acquired PhDs from various world class 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 one undergraduate and seventeen postgraduate programmes with a total of 274 undergraduate students.

## 62 BSc Environmental Health Science Degree Programme- MH007

This is a six semester (three years) competency based programme whose overall aim is to train and produce graduates with a wide range of relevant competencies and skills which will enable them to make positive contributions towards the management and improvement of environmental health in Tanzania and beyond.

### 6.2.1 BSc (Environmental Health Science) Degree Programme courses

Code	Name of Course	Lecture Hrs	Credits	Practical Hrs	Credits	Tutorial/seminar Hrs	Credits	Total Hrs	Credits
<b>Semester 1: 57.6 Credits</b>									
AN 106	Human Anatomy	80	8.0	50	5.0	0	0.0	130	13.0
PH 106	Basic Physiology	80	8.0	50	5.0	0	0.0	130	13.0
EH 100	Environmental Sciences	45	4.5	15	1.5	0	0.0	60	6.0
EH 102	Communication Skills and Information technology	50	5.0	80	8.0	0	0.0	130	13.0
BC 106	Principles of Biochemistry	50	5.0	40	4.0	0	0.0	90	9.0
PF 101	Professionalism and Ethics in Health Sciences	28	2.8	0	0.0	8	0.8	36	3.6
<b>Semester 2: 57.6 Credits</b>									
EH 101	Environmental Sciences	95	9.5	103	10.3	0	0.0	198	19.8
EH 103	Building Technology	70	7.0	50	5.0	0	0.0	120	12.0
EH 104	Housing, Urbanization and Human Settlement	115	11.5	73	7.3	0	0.0	188	18.8

DS 100	Theories of Social Development and Critical Issues in Health	55	5.5	0	0.0	15	1.5	70	7.0
<b>Semester 3: 57.6 Credits</b>									
EH 200	Occupational Health & Safety (Module 1)	25	2.5	29	2.9	0	0.0	54	5.4
EH 201	Water & Sanitation	71	7.1	60	6.0	0	0.0	131	13.1
EH 202	Waste Management	95	9.5	40	4.0	0	0.0	135	13.5
EH 203	Anatomy, General and Specific Pathology of Food Animals	86	8.6	40	4.0	0	0.0	126	12.6
ER 200	Epidemiology and Research Methods (Module 1)	24	2.4	36	3.6	0	0.0	60	6.0
DS 200	Health Care Delivery Systems and Development Trends	55	5.5	0	0.0	15	1.5	70	7.0
<b>Semester 4: 57.6 Credits</b>									
EH 200	Occupational Health & Safety (Module 2)	66	6.6	59	5.9	0	0.0	125	12.5
EH 205	Food Systems and Nutrition	60	6.0	140	14.0	0	0.0	200	20.0
EH 206	Environmental Health Law & Policy	71	7.1	0	0.0	20	2.0	91	9.1



EH 204	Qualitative Research	40	4.0	40	4.0	0	0.0	80	8.0
ER 200	Biostatistics (Module 2)	40	4.0	40	4.0	0	0.0	80	8.0
<b>Semester 5: 57.6 Credits</b>									
EH 300	Environmental Inspection and Port Health (Module 1)	55	5.5	40	4.0	0	0.0	95	9.5
EH 301	Environmental Pollution and Control	65	6.5	46	4.6	0	0.0	111	11.1
EH 302	Food Safety and Hygiene	74	7.4	50	5.0	0	0.0	124	12.4
EH 303	Toxicology and Health Risk Management	75	7.5	21	2.1	0	0.0	96	9.6
EH 304	Parasitology, Medical Entomology and Vermin Control	86	8.6	64	6.4	0	0.0	150	15.0
<b>Semester 6: 57.6 Credits</b>									
EH 305	Environmental Assessment and Economics	90	9.0	30	3.0	0	0.0	120	12.0
EH 306	Health System Management, Education & Promotion	80	8.0	30	3.0	10	1.0	120	12.0
EH 300	Environmental Inspection and Port Health (Module 2)	30	3.0	32	3.2	0	0.0	62	6.2
EH 307	Communicable Disease Control, Field Attachment and Research Project	50	5.0	224	22.4	0	0.0	274	27.4

### **6.2.1.2 Examination regulations for the BSc Environmental Health Science 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 BSc (EHS) is a six-semester programme and the maximum tenure shall be eight (8) semesters.
- (iii) The registration of full time students shall be once at the beginning of each semester.
- (iv) 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).
- (v) The FA and SA shall consist of written (MCQ's, essays field reports, assignments, presentations and others) and practical/ clinical components (global observation and rating of live/ recorded performances, procedures and logbooks, OSPE, peer rating, multisource rating and others). The proportional contribution for written and practical examinations will be 40%, and 60% respectively. The proportional contribution of written and oral components in SA will be 40% and 10%, respectively. In case there will be no oral examinations, written examinations will contribute 50% of the final grade and assessment of competencies the other 50%.
- (vi) A candidate who fails to obtain 50% of the FA grade shall not be allowed to sit for the SA of the module and will be subjected to repeat the module when it is next offered.
- (vii) A candidate will be considered to have passed a course after passing all modules of the respective course.
- (viii) A candidate who scores a GPA of 1.6 or higher, but fails in two course(s) or less shall be required to supplement the failed modules in the course(s) in October, before the start of new academic year.

- (ix) A candidate who obtains a GPA of less than 1.6 at the end of the academic audit year shall be discontinued from studies.
- (x) A candidate who fails three or more courses in any semester or in an audit year during semesters one (1) to two (2), shall be discontinued from studies regardless of GPA.
- (xi) A candidate who fails three or more courses in semester 3 and 4 will be allowed to supplement failed courses when next offered provided the GPA is 1.6 or higher
- (xii) A candidate who fails in a supplementary examination for semester 1 and 2 shall be allowed to carry-over the failed module(s) to the next academic audit year and appear for a second supplementary examination in the failed module(s) of the respective course(s) when next offered provided the GPA is 1.8 or higher.
- (xiii) A candidate who fails the second supplementary examination in semesters one (1) to four (4) shall be discontinued from studies, except in special circumstances, if recommended by the Public Health and Social Sciences Board and Senate Undergraduate Committee and approved by the University Senate.
- (xiv) A candidate who passes a supplementary examination at any level shall be awarded a "C" grade equivalent to 2.0 grade points.
- (xv) A candidate who fails the first supplementary in semester 3 and 4 shall be allowed to freeze registration and appear for a second supplementary examination when next offered provided that he/she obtains a GPA of 1.8 or more during the first supplementary. The maximum freezing period shall be 2 semesters.
- (xvi) A candidate who fails the second supplementary examination in semesters 1 to 4 shall be discontinued from studies, except in special circumstances, if recommended by the School Board and Senate Undergraduate Committee and approved by the University Senate.
- (xvii) A candidate who fails the second supplementary examination in semesters 5 and 6 shall be allowed to supplement the failed courses when next offered provided the maximum tenure of eight (8) semesters is not exceeded.
- (xviii) A Student shall be awarded the BSc (EHS) degree after passing all the prescribed courses in the programme.
- (xix) BSc (EHS) is a classified degree.

### 6.2.1.3 Grading and Degree Classification System

The weighting of modules contributing to the degree classification shall be based on the number of Credits for each module from semester 1 to semester 6 as shown below: -

Letter grade	A	B+	B	C	D	E
Grade points	5.0 - 4.4	4.3 - 3.5	3.4 - 2.7	2.6 - 2.0	1.9 - 1.5	1.4 - 0.0
Marks %	100 - 75%	74 - 70%	69 - 60%	59 - 50%	49 - 40%	39 - 0%

## CHAPTER SEVEN

### INSTITUTE OF ALLIED HEALTH SCIENCES

#### 8.1 INTRODUCTION

The Institute of Allied Health Sciences is a Public Institution for Training middle level health care providers in Tanzania leading to award of Diploma and Advanced Diploma in various Academic programmes.

The Institute offers programmes geared towards providing students with competencies related to diagnostic, curative, preventive, rehabilitative and restorative health care.

#### 8.2 DIPLOMA PROGRAMMES

##### 8.2.1 Diploma in Environmental Health Sciences Programme

This is a competency-based six-semester Diploma in Environmental Health Sciences (DEHS) programme. It is intended to enable Environmental Health graduates to organize, plan, manage, supervise, monitor and evaluate, preventive and promotive health services targeted towards individuals and communities. The programme is also intended to ensure that students are provided with the knowledge and skills necessary for sustainable and innovative health solutions by communities.

##### 8.2.1.1 Entry requirements

###### 1. Entry Requirements:

###### (a) Direct Entry

Credit pass in in Biology, Chemistry and Physics, and D in English and Mathematics at 'O' level

###### (b) Equivalent Qualification

Certificate in Medical laboratory sciences (Laboratory Assistant) with three years' experience who passed the selection examination recognized by University and must have 'O' level secondary school certificate

### 8.2.1.2 Diploma in Environmental Health Sciences (DEHS) Programme Courses

Code	Name Hours	Theory/Seminars		Practical		Total	
		Credits	Hours	Credits	Hours	Credits	
Semester 1: 57.6 Credits							
BE 100	Basic science in Envi- ronmental Health	120	12	180	18	300	30
YY 100	Parasitology and Micro- biology	62	6.2	76	7.6	138	13.8
VC100	Vector Biology, Ecol- ogy and Control	62	6.2	76	7.6	138	13.8
Total		244	24.4	332	33.2	576	57.6
Semester 2: 57.6 Credits							
CH 100	Community Health	120	12	130	13	250	25
DC 100	Disease Control	56	5.6	60	6	116	11.6
EB 100	Epidemiology and Biostatistics	50	5	60	6	110	11
HN 100	Human Nutrition	40	4	60	6	100	10
Total		266	26.6	310	31	576	57.6
Semester 3: 57.6 Credits							
FS 200	Food Safety and Hy- giene	96	9.6	100	10	196	19.6
MH 200	Meat Safety and Hy- giene	50	5	60	6	110	11
WQ 200	Water Quality and Sup- ply	50	5	60	6	110	11
PN 200	Pollution Control	70	7	90	9	160	16
Total		266	26.6	310	31	576	57.6
Semester 4: 57.6 Credits							
HH 200	Housing and Health	50	5	56	5.6	106	10.6
ES 200	Environmental Sanita- tion	150	15	170	17	320	32
BT 200	Building Technology	70	7	80	8	150	15
Total		270	27	306	30.6	576	57.6
Semester 5: 57.6 Credits							
PI 300	Property Inspection	40	4	60	6	100	10

EL 300	Environmental Health Laws	50	5	70	7	120	12
HP 300	Health Policy and Programs	86	8.6	90	9	176	17.6
PA 300	Public Health Administration and Management	90	9	90	9	180	18
<b>Total</b>		<b>266</b>	<b>26.6</b>	<b>310</b>	<b>31</b>	<b>576</b>	<b>57.6</b>
<b>Semester 6: 57.6 Credits</b>							
FW 300	Field Work Attachment	8	0.8	190	19	198	19.8
RT 300	Research Methodology	90	9	108	10.8	198	19.8
EP 300	Entrepreneurship	40	4	40	4	80	8
RY 300	Project Planning & Management	50	5	50	5	100	10
<b>Total</b>		<b>188</b>	<b>18.8</b>	<b>388</b>	<b>38.8</b>	<b>576</b>	<b>57.6</b>

## 8.2.2 Diploma in Diagnostic Radiography Programme

This is a competency-based six-semester Diploma in Diagnostic Radiography (DDR) programme. The aim of the programme is to train radiographers to be able to use different kinds of X-rays machines, CT scan, MRI, Ultrasound, CR and digital Radiography facilities and to investigate diseases injuries in patients. They should also be able to care for patients and maintain radiological facilities, i.e. Radiological and Imaging facilities in their place of work. The radiographer will also be trained to interpret plain radiographs and introduce intravenous injections for contrast studies where applicable.

### 8.2.2.1 Entry Requirements

#### *Direct Entry*

C grade or higher passes in three out of Physics, Chemistry, Biology and Mathematics and at least D grade pass in English. Physics is a major subject.

#### *Equivalent Qualifications*

Radiographer Assistant with three years' experience who has passed the selection examination recognized by the University and must have 'O' - level secondary school certificate.

### 8.2.2.2 Diploma in Diagnostic Radiography (DDR) Programme Courses

Course code	Course Name	Core/elective type	Lecture (LH)	Tutorial/Seminar (TH)	Assignment (AH)	Independent Study (IH)	Practical (PH)	Total hrs	Total Credits
<b>SEMESTER 1: 62.0 Credits</b>									
RI 100	Radiographic Imaging	CORE	80	20	10	10	30	140	14.0
CA 100	Computer Application	CORE	20	10	5	5	20	60	6.0
AP 101	Anatomy, Physiology and Pathology	CORE	90	20	10	10	30	160	16.0
ER 100	Ethics and Professionalism in Radiology and Imaging	CORE	40	10	10	10	0	70	7.0
PM 100	Patient Management	CORE	80	10	10	10	80	190	19.0
<b>SEMESTER 2: 62.0 Credits</b>									
IP 100	Imaging Physics	CORE	40	10	10	10	0	70	7.0
RP 101	Radiographic procedures	CORE	90	10	10	10	30	150	15.0
AP 102	Anatomy, Physiology and Pathology	CORE	40	10	10	10	0	70	7.0
RS 100	Radiation Sciences	CORE	50	10	5	5	20	90	9.0
CR 102	Clinical Rotation	CORE	0	0	0	0	240	240	24.0
<b>SEMESTER 3: 62.0 Credits</b>									
RE 200	Radiographic Equipment	CORE	70	10	5	5	10	100	10.0
RP 201	Radiographic Procedures	CORE	60	10	5	5	10	90	9.0
UI 100	Ultrasound Imaging	CORE	50	10	5	5	10	80	8.0

AP 201	Anatomy, Physiology and Pathology	CORE	80	10	10	10	0	110	11.0
CR 201	Clinical Rotation	CORE	0	0	0	0	240	240	24.0

#### SEMESTER 4: 62.0 Credits

RP 202	Radiographic Procedures	CORE	60	10	5	5	10	90	9.0
AP 202	Anatomy, Physiology and Pathology	CORE	70	10	10	10	0	100	10.0
DP 200	Disease Pattern Recognition	CORE	40	5	5	20	20	90	9.0
UI 200	Ultrasound Imaging	CORE	70	10	5	5	10	100	10.0
CR 202	Clinical Rotation	CORE	0	0	0	0	240	240	24.0

#### SEMESTER 5: 62.0 Credits

RP 300	Radiographic Procedures	CORE	50	5	5	10	10	80	8.0
SE 300	Specialized Equipment	CORE	40	10	5	5	10	70	7.0
UI 300	Ultrasound Imaging	CORE	70	5	10	5	20	110	11.0
MA 300	Management and Administration	CORE	90	10	10	10	0	120	12.0
CR 301	Clinical Rotation	CORE	0	0	0	0	240	240	24.0

#### SEMESTER 6: 62.0 Credits

IP 300	Radiographic Procedures	CORE	20	10	5	5	10	50	5.0
DP 300	Disease Pattern Recognition	CORE	50	5	5	10	10	80	8.0
QA 300	Quality Assurance	CORE	20	10	5	5	10	50	5.0
FW 300	Field Work	CORE	0	5	0	10	365	380	38.0



CR 302	Clinical Rotation	CORE	0	0	0	0	60	60	6.0
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### 8.2.3 Diploma in Orthopaedic Technology Programme

This is a Six-semester Diploma in Orthopaedic Technology (DOT) Programme. The programme is intended to impart knowledge and skills to students on equipment and materials used in the evaluations, design, and fitting of different orthopaedic appliances. It also helps students acquire correct attitude towards patient care.

#### 8.2.3.1 Entry requirements

##### *Direct Entry*

Three credits passes out of Physics, Chemistry, Biology or Mathematics at 'O' level. Credit pass in engineering subjects is also acceptable as the third credit pass.

##### *Equivalent Qualifications*

Candidates must have certificate in lower limb Prosthetics or Orthotics and must have two credit passes in science subjects at "O" level.

#### 8.2.3.2 Diploma in Orthopedic Technology (DOT) Programme Courses

Code	Course Name	Lectures		Practical/ Seminars		Total	
		Hours	Credits	Hours	Credits	Hours	Credits
SEMESTER 1: 57.6Credits							
BS 101	Basic Sciences	135	13.5	90	9.0	225	22.5
AO 100	Ankle Foot Or- thotic Science	165	16.5	186	18.6	351	35.1
SEMESTER 2: 57.6 Credits							
AF100	Ankle Foot Prosthetic Sci- ence	16	1.6	180	18.0	196	19.6
TT 100	Trans-tibial Prosthetic Sci- ence	90	9.0	230	23.0	320	32.0
GH 100	General Health Education,	45	4.5	15	1.5	60	6.0
SEMESTER 3: 57.6 Credits							
KO 200	Knee Ankle Foot Orthotic Science	90	9.0	486	48.6	576	57.6



SEMESTER 4: 57.6 Credits							
KD 200	Knee Disarticulation Prosthetic Science	30	3.0	186	18.6	216	21.6
TF 200	Trans-femoral Prosthetic Science	30	3.0	270	27.0	300	30.0
LM 200	Leadership and Management	60	6.0	0	0	60	6.0
SEMESTER 5: 57.6 Credits							
PO 300	Prosthetics and Orthotics	65	6.5	481	48.1	546	54.6
HR 300	Management Health System Research	30	3.0	0	0	30	3.0
SEMESTER 6: 57.6 Credits							
CP 300	Clinical Placement	0	0	576	57.6	576	57.6

## 8.3 ADVANCED DIPLOMA PROGRAMMES

### 8.3.1 Advanced Diploma in Dermatovenereology Programme

This is a four- semester programme in Advanced Diploma in Dermatovenereology (ADDV). Students are trained to diagnose and competently manage most dermatological conditions, Leprosy, HIV/AIDS and other Sexually Transmitted Diseases (STDs) in the context of Primary Health Care (PHC). The programme also intends to impart knowledge on how to plan and carry out appropriate measures for prevention of skin diseases and STDs. Students are also trained to conduct operational research in both clinical and epidemiology for improvement of health services in the community.

#### 8.3.1.1 Entry Requirements

***Direct Entry: N/A***

***Equivalent Qualification***

Should have successfully completed any one of the following courses with an overall good performance grade(s)

Clinical Medical Officer (CO) in Tanzania. In other countries

- (a) Medical Assistant
- (b) Clinical Officer
- (c) Nurse Clinician
- (d) Family Nurse Practitioner or an equivalent level.

All applicants must possess 'O' level secondary school certificate with passes in Biology, Chemistry and Physics or Mathematics.

### 8.3.1.2 Advanced Diploma in Dermatovenereology (ADDV) Programme Courses

Code	Course Name Hours	Lectures Seminar/Field		Practical's/		Total	
		Credits	Hours	Credits	Hours	Credits	
SEMESTER 1: 57.6 Credits							
DV100	Fundamentals of Dermatology	120	12.0	225	22.5	345	34.5
ST 100	Sexually Transmitted Diseases	30	3.0	45	4.5	75	7.5
LP 100	Leprosy Epidemiology and Management	30	3.0	51	5.1	81	8.1
DP 100	Pharmacology and Therapeutics	30	3.0	45	4.5	75	7.5
SEMESTER 2: 57.6 Credits							
DV100	Fundamentals of Dermatology	60	6.0	150	15.0	210	21.0
ST 100	Sexually Transmitted Diseases	60	6.0	141	14.1	201	20.1
DP 100	Pharmacology and Therapeutics	15	1.5	30	3.0	45	4.5
DH100	Public Health Dermatology	30	3.0	90	9.0	120	12.0
SEMESTER 3: 57.6 Credits							
DV200	Applied Dermatology	60	6.0	176	17.6	236	23.6
ST 200	Sexually Transmitted diseases	30	3.0	115	11.5	145	14.5
HS 200	Health system research and management	50	5.0	145	14.5	195	19.5
SEMESTER 4: 57.6 Credits							
DV200	Applied Dermatology	45	4.5	180	18.0	225	22.5
ST 200	Sexually Transmitted diseases	40	4.0	176	17.6	216	21.6
LR 200	Leprosy Rehabilitation	30	3.0	105	10.5	135	13.5

## 84 EXAMINATION REGULATIONS FOR DIPLOMA

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.

- (i) The academic year shall be the basic academic audit unit.
- (ii) Registration shall be done once at the beginning of each semester.
- (iii) All modules offered during the semester shall be assessed within that semester, at the end of each module/modular course or rotation and the external examiners or moderators shall be invited at the end of semester or audit year.
- (iv) For every module, modular course or rotation there shall be at least two Continuous Assessment Tests (CAT) and regular assessment of competencies, which shall constitute the Formative Assessment (FA). The end of module/modular course or rotation examination shall constitute the Summative Assessment (SA). The FA shall constitute 50% of the final assessment grade.
- (v) A candidate who for compelling reasons does not appear for any regular examination, wholly or partly shall be allowed to sit for examination as first sitting when next offered on the recommendation of the Institute Board and approval by the Senate.
- (vi) A candidate who fails in courses/modules shall be allowed to sit for first supplementary in the failed modules during in October if he/she obtained an overall GPA of 1.6 or more.
- (vii) A candidate will be considered to have passed a course after passing all modules/rotations of the respective course.
- (viii) A candidate who obtains an overall GPA of less than 1.6 at the end of audit year shall be discontinued from studies.
- (ix) A candidate who fails three or more courses in any semester or in an audit year during semesters one (1) to two (2), shall be discontinued from studies regardless of GPA. A candidate who fails the supplementary examination with an overall GPA of less than 1.8 shall be discontinued from studies.

- (x) A candidate who fails the first supplementary first year shall be allowed to proceed to the next year and sit for a second supplementary in the failed modules when next offered provided he/she obtains an overall GPA of 1.8 or higher.
- (xi) A candidate, who fails the second supplementary examination in semesters 1 & 2, shall be discontinued from studies, except in special circumstances, if recommended by the Institute Board and Senate Undergraduate Committee and approved by the University Senate.
- (xii) A candidate who fails three or more courses in semester 3 and 4 will be allowed to supplement failed courses when next offered provided the GPA is 1.6 or higher
- (xiii) A candidate who obtains a GPA of 1.8 or higher in the first supplementary examination in semester 3 and 4 shall be allowed to freeze registration and appear for a second supplementary examination when next offered. In this case the maximum freezing period shall be two (2) semesters. A student who fails to clear the failed modules/courses within the two semesters shall be discontinued.
- (xiv) A candidate who fails the second supplementary examination in Semesters 5 and 6 shall be allowed to supplement the failed courses at the end of semesters six (6), provided the maximum tenure of eight (8) semesters is not exceeded. For Advanced Diploma in Dermatovenereology Programme (ADDV), candidate who fails second supplementary in semester 3 and 4 shall be allowed to supplement when next offered provided the the maximum tenure of six (6) semesters is not exceeded.
- (xv) The highest grade a candidate can obtain after a supplementary is a "C".
- (xvi) Candidate who scores 50% or higher in a clinical/practical module/modular course or rotation examined shall be declared to have passed if he/she also passed the practical part of that examination which consists of 40% practical FA and 60% of SA.
- (xvii) A candidate who obtains a C grade or higher in all modules/modular courses or courses examined in an audit year shall be declared to have passed the examination and will be allowed to proceed to the next year of study.
- (xviii) No candidate shall be allowed to sit for a third supplementary examination except in special circumstances as may be determined by the Senate and the provisions in section (xiv).
- (xix) The maximum allowed period for registration shall be 8 semesters for Diploma programmes
- (xx) A candidate shall be awarded a Diploma after passing all modules in the programme and passing the Fieldwork and/or research Project Report as applicable.



## 85 The Grading system

*The grading system shall be as follows:*

Letter grade	A	B	C	D	E
Grade points	4.0 - 5.0	3.0 - 3.9	2.0 - 2.9	1.0 - 1.9	0- 0.9
Marks %	80-100%	65 - 79%	50 – 64*%	40 - 49%	0 - 39%

## 86 REGULATIONS OF FIELD WORK/RESEARCH

As partial fulfillment for the award of Diploma or Advanced Diploma the student may be required to perform fieldwork attachment in an approved station, write and present a report and/or pass a research project report. A student may also be required to pass a portfolio and a fully signed checklist.

In programmes where any of the above is applicable, failure in presenting and passing a report shall require a student to repeat a field rotation or research project on his/her own costs.

- (i) The fieldwork or research report shall consist of activities performed during fieldwork attachment or during the time allocated to the research project.
- (ii) Two copies of typed research and fieldwork report each separately where applicable, shall be submitted to the school authority not exceeding two weeks after the field work attachment, and two weeks before the commencement of the end relevant module examination.
- (iii) Candidates who do not submit their reports at this period without a valid reason will be required to supplement the semester.
- (iv) Candidates will also submit dull filled student progress portfolio, which shall be used during the end of respective modular examinations at oral/practical examinations.
- (v) The pass mark for fieldwork and research is 50% respectively
- (vi) Every task in the fieldwork (field work report, portfolio, research report and fully signed checklist) shall be done individually.

## 8.7 ADVANCED DIPLOMA PROGRAMME

### 8.7.1 Advanced Diploma in Dermatovenereology Programme

This is a four- semester programme in Advanced Diploma in Dermatovenereology (ADDV). Students are trained to diagnose and competently manage most dermatological conditions, Leprosy, HIV/AIDS and other Sexually Transmitted Diseases (STDs) in the context of Primary Health

Care (PHC). The programme also intends to impart knowledge on how to plan and carry out appropriate measures for prevention of skin diseases and STDs. Students are also trained to conduct operational research in both clinical and epidemiology for improvement of health services in the community.

### 8.7.1.2 Entry Requirements

***Direct Entry: N/A***

***Equivalent Qualification***

Should have successfully completed any one of the following courses with an overall good performance grade(s)

Clinical Medical Officer (CO) in Tanzania. In other countries

- (e) Medical Assistant
- (f) Clinical Officer
- (g) Nurse Clinician

Family Nurse Practitioner or an equivalent level.

All applicants must possess 'O' level secondary school certificate with passes in Biology, Chemistry and Physics or Mathematics.



### 8.7.1.3 Advanced Diploma in Dermatovenereology (ADDV) Programme Courses

Code	Course Name Hours	Lectures Seminar/Field		Practical's/		Total	
		Credits	Hours	Credits	Hours	Credits	Hours
SEMESTER 1: 57.6 Credits							
DV100	Fundamentals of Dermatology	120	12.0	225	22.5	345	34.5
ST 100	Sexually Transmitted Diseases	30	3.0	45	4.5	75	7.5
LP 100	Leprosy Epidemiology and Management	30	3.0	51	5.1	81	8.1
DP 100	Pharmacology and Therapeutics	30	3.0	45	4.5	75	7.5
SEMESTER 2: 57.6 Credits							
DV100	Fundamentals of Dermatology	60	6.0	150	15.0	210	21.0
ST 100	Sexually Transmitted Diseases	60	6.0	141	14.1	201	20.1
DP 100	Pharmacology and Therapeutics	15	1.5	30	3.0	45	4.5
DH100	Public Health Dermatology	30	3.0	90	9.0	120	12.0
SEMESTER 3: 57.6 Credits							
DV200	Applied Dermatology	60	6.0	176	17.6	236	23.6
ST 200	Sexually Transmitted diseases	30	3.0	115	11.5	145	14.5
HS 200	Health system research and management	50	5.0	145	14.5	195	19.5
SEMESTER 4: 57.6 Credits							
DV200	Applied Dermatology	45	4.5	180	18.0	225	22.5
ST 200	Sexually Transmitted diseases	40	4.0	176	17.6	216	21.6
LR 200	Leprosy Rehabilitation	30	3.0	105	10.5	135	13.5

Letter grade	A	B	C	D	E
Grade points	4.0 - 5.0	3.0 - 3.9	2.0 - 2.9	1.0 - 1.9	0 - 0.9
Marks %	80-100%	65 - 79%	50 – 64*%	40 - 49%	0 - 39%

## 88 EXAMINATION REGULATIONS FOR ADVANCED DIPLOMA

- (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 shall be the basic academic audit unit.
- (iii) Registration shall be done once at the beginning of each semester.
- (iv) All modules offered during the semester shall be assessed within that semester, at the end of each module/modular course or rotation and the external examiners or moderators shall be invited at the end of semester or audit year.
- (v) For every module, modular course or rotation there shall be at least two Continuous Assessment Tests (CAT) and regular assessment of competencies, which shall constitute the Formative Assessment (FA). The end of module/modular course or rotation examination shall constitute the Summative Assessment (SA). The FA shall constitute 50% of the final assessment grade.
- (vi) A candidate who for compelling reasons does not appear for any regular examination, wholly or partly shall be allowed to sit for examination as first sitting when next offered on the recommendation of the Institute Board and approval by the Senate.
- (vii) A candidate will be considered to have passed a course after passing all modules/rotations of the respective course.
- (viii) A candidate who obtains an overall GPA of less than 1.6 at the end of audit year shall be discontinued from studies.
- (ix) A candidate who fails three or more courses in any semester or in an audit year during semesters one (1) to two (2), shall be discontinued from studies regardless of GPA.
- (x) A candidate who fails one or two courses/modules in semester one (1) or two (2) shall be allowed to sit for first supplementary in the failed modules in October if he/she obtained an overall GPA of 1.6 or more.
- (xi) A candidate who fails the first supplementary examination with an overall GPA of less than 1.8 shall be discontinued from studies.



- (xii) A candidate who obtains a GPA of 1.8 or higher in the first supplementary examination in semester (one) 1 and (two) 2 shall be allowed to freeze registration and appear for a second supplementary examination when next offered. In this case the maximum freezing period shall be two (2) semesters. A student who fails to clear the failed ~~mod~~ modules/courses within the two semesters shall be discontinued.
- (xiii) 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 semesters four (4), provided the maximum tenure of six (6) semesters is not exceeded.
- (xiv) The highest grade a candidate can obtain after a supplementary is a "C".
- (xv) Candidate who scores 50% or higher in a clinical/practical in module/ modular course or rotation examined shall be declared to have passed if he/she also passed the practical part of that examination which consists of 40% practical FA and 60% of SA.
- (xvi) No candidate shall be allowed to sit for a third supplementary examination except in special circumstances as may be determined by the Senate.
- (xvii) The maximum allowed period for registration shall be 6 semesters.
- (xviii) A candidate shall be awarded Advanced Diploma after passing all modules in the programme and passing the Fieldwork and/or research Project Report as applicable.

## 89 The Grading system

*The grading system shall be as follows:*

Letter grade	A	B	C	D	E
Grade points	4.0 - 5.0	3.0 - 3.9	2.0 - 2.9	1.0 - 1.9	0- 0.9
Marks %	80-100%	65 - 79%	50 – 64*%	40 - 49%	0 - 39%

## CHAPTER NINE

### 9.1 FEE STRUCTURE

All students shall promptly pay their dues to the university. For students sponsored by the government of Tanzania shall sign the Higher Education Student Loans Board Pay Slips immediately. Students who fail to do so shall be barred from registering and sitting for examinations.

#### 9.1.1 FEE STRUCTURE FOR UNDERGRADUATE DEGREE PROGRAMMES

Clusters	Tuition Fee per Year (Tanzanian students) (TZS)	Tuition Fee per Year (Foreign students) (US\$)	Discipline/Programmes Cluster
1	1,400,000/=	3,612	Bachelor of Science in Nursing, Bachelor of Science in Midwifery and Bachelor of Science in Nursing Management.
2	1,500,000/=	4,408	Bachelor of Environmental Health Sciences, Bachelor of Medical Laboratory Sciences in: Clinical Chemistry, General, Haematology and Blood Transfusion, Parasitology and Medical Entomology, Histotechnology and Bachelor of Science in Radiation Therapy Technology.
3	1,600,000/=	4,408	Bachelor of Pharmacy.
4	1,700,000/=	5,672	Doctor of Dental Surgery, BMLS in Microbiology and Immunology, Bachelor of Science in Diagnostic and Therapeutic Radiography (BScRad).
5	1,700,000/=	5,672	Bachelor of Biomedical Engineering
6	1,800,000/=	5,672	Doctor of Medicine.
7	1,700,000/=	5,672	Bachelor of Science in Physiotherapy

**Note:**

Students are required to have sufficient funds to cater for Special Programme Requirements. Such requirements may be in the form of boots, overalls, scientific calculators, drawing board, gloves, masks etc. as well as funds for practical training depending on the programme. Applicants are urged to consult the University prospectus for specific requirements by their Schools or consult the Schools that they intend to apply for more details, including indicative cost implication.

### 9.1.1.1 Direct University Costs (Payable to the University)

Item	(Tanzanian students) TZS	(Foreign students)
Tuition Fee	Arranged in Clusters in the table above	Arranged in Clusters in the table above
*Application Fee (Once)	10,000.00	10 US\$
Registration	5,000.00	10US\$
Annual quality assurance fee	20,000.00	20\$
Examination Fee	12,000.00	12,000.00 TZS
Graduation Fee (Once)	(5,000.00)	(5,000.00) TZS
Identity Card	10,000.00	10,000.00 TZS
Student Funeral Fund	10,000.00	-
National Health Insurance Funds (NHIF)	50,400.00	50,400.00 TZS
Caution Money	10,000.00	10,000.00 TZS
Student Union Fee	10,000.00	10,000.00 TZS

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

### 9.1.1.2 Direct Student Costs (Payable Directly to Students)

Item	TZS
Book and Stationery Allowance	200,000
Meal Allowance and accommodation	2,660,500.00

### 9.1.1.3 Research Project Cost for Bachelor of Medical Laboratory Sciences Degree Course (BMLS), Bachelor of Biomedical Engineering and Bachelor of Science in Diagnostic and Therapeutic Radiography (BScRad) and Bachelor of Pharmacy, Bachelor of Science in Environmental Health Sciences, BSc Radiation Therapy Technology, Bachelor of Science in Physiotherapy.

S/N	AREA OF SPECIALIZATION	COST
1	Clinical Chemistry	500,000.00
2	Haematology an Blood transfusion	500,000.00
3	Histotechnology	500,000.00
4	Microbiology and Immunology	500,000.00

5	Parasitology and Medical Entomology	500,000.00
6	BSc Radiation Therapy Technology	500,000.00
7	BMLS General	500,000.00
8	Bachelor of Pharmacy	760,000.00
9	Doctor of Medicine	660,000.00
10	Doctor of Dental Surgery	660,000.00
11	Bachelor of Science in Environmental Health Sciences	500,000.00
12.	Bachelor of Science in Nursing	500,000.00
13	Bachelor of Science in Midwifery	500,000.00
14	Bachelor of Science in Nurse Anaesthesia	500,000.00
15	Bachelor of Biomedical Engineering (BBME)	500,000.00
	Industrial Practical Training per year for 3 yrs	700,000.00
16	Bachelor of Science in Physiotherapy	760,000.00
17	Bachelor of Science in Diagnostic and Therapeutic Radiography (BScRad)	760,000.00

**9.2 Students who extends their duration of studies at MUHAS beyond the official tenure will be required to register per year extension. The registration fees will be a must for the extra year that students will spend at the University to accomplish their studies despite.**

### 9.2.1 EXTENTION FEE FOR UNDGERGARDUATE PROGRAMMES

Discipline/Programmes Cluster	Tanzanian students (TZS)	Foreign students (USD)
Bachelor of Science in Nursing, Bachelor of Science in Midwifery and Bachelor of Science in Nursing Management.	532400	1149.3
Bachelor of Environmental Health Sciences, Bachelor of Medical Laboratory Sciences in: Clinical Chemistry, Genearal, Haematology and Blood Transfusion, Parasitology and Medical Entomology, Histotechnology and Bachelor of Science in Radiation Therapy Technology.	562400	1388.1
Bachelor of Pharmacy.	592400	1388.1
Doctor of Dental Surgery, BMLS in Microbiology and Immunology.	622400	1767.3
Bachelor of Biomedical Engineering	622400	1767.3
Bachelor of Science in Physiotherapy	592400	1388.1
Doctor of Medicine.	652400	1767.3

## 9.3 STUDENTS' SPECIAL PROGRAMME REQUIREMENTS

### 9.3.1 SCHOOL OF MEDICINE

#### 9.3.1.1 MD PROGRAMME

S/N	MD 1	MD 2	MD 3	MD 4	MD 5
1	Gloves	Sphygmoma- nometer	Diagnostic Kit	Theatre boots/crocs	Delivery Kits
2	Apron	Patella Ham- mer	Clinical Coat	Theatre gowns	Theatre boots
3	Laboratory Coat	Turning Fork	Neck tie/ Scarf	Aprons	Theatre gowns
4	Neck ties/Scarf	Pen torch and batteries	Delivery Kits	Eye protec- tion gear/ goggles	Aprons
5	Name Tag	Stethoscope		Masks and Caps	Eye pro- tection gear/ goggles
6	Dissection kit	Clinical coat		Sphygmo- manometer	Masks and Caps
7	Goggles			Clinical Coats	Clinica l Coat
8	Calculator	Neck ties/scarf		Pen-torch and batter- ies	Pen-torch and bat- teries
9				Neck ties/ scarves	

### 9.2.1.1.2 OTHER PROGRAMMES

	BMLS	BSc RTT
1	Masks and Caps/Hats	Masks and Caps/Hats
2	Jig and opposition devices	Jig and opposition devices
3	Training Model	Training Model
4	Gloves (Surgical)	Gloves (Surgical)
5	Name tag	Name tag
6	Neck ties/Scarf	Neck ties/Scarf
7	Sphygmomanometer	Sphygmomanometer
8	Stethoscope	Stethoscope
9	Protective goggles	Protective goggles
10	Lab Coat	Dosimeter
11	Slide holder	
	<b>BBME</b>	<b>TZS</b>
	Transport fare to attend IPT	Variable
	Special Faculty Requirement (TZS 300,000 each for Semester 1 – 6 and 120,000 for semester 7&8)	1,020,000.00

## 9.3.2 SCHOOL OF DENTISTRY

### 9.3.2.1 DDS PROGRAMME

S/N	DDS 1	DDS 2	DDS 3	DDS 4	DDS 5
1	Dissection Kits	Sphygmoma - nometer	Diagnostic/Intra Oral examination Kits	Theatre Boots, Masks and Caps	Theatre Boots, Masks and Caps
2	Gloves	Face mask	Phantom curving instruments	Theatre gowns	Theatre gowns
3	Calculator	Tape measure	Gloves	Theatre shirts	Theatre shirts
4	Laboratory coats	Pen torch and batteries	Scaling and root planning instruments	Masks and caps	Masks and caps
5	Goggles	Stethoscope	Endodontic sets	High speed (red) hand piece	High speed (red) hand piece
6	Name Tags	Neck ties/ scarf	High speed (red) hand piece	Low speed (blue) hand pieces	Low speed (blue) hand pieces.



7	Aprons Face masks		Low speed (blue) hand piece	Calculator	Calculator
8	Neckties/ scarf		Theatre boots gowns, shirts, trousers	Two clinical coats	Two clinical coats
9			Eye protective gear	Aprons	Aprons
10			Sphygmoma- nometer	Tape measure	Tape measure
11			Clinical Coats	Diamond burs	Diamond burs
12			Pen- torch and batteries	Carbide burs	Carbide burs
13			Diamond burs	Stainless steel burs	Stainless steel burs
14			Carbide burs	Neckties/ scarves	Neckties/ scarves
15			Stainless steel burs		
16			Neckties/ scarves		

### 9.3.3 SCHOOL OF PHARMACY

#### 9.3.3.1 B. PHARM PROGRAMME

S/N	B. PHARM 1	B. PHARM 2	B. PHARM 3	B. PHARM 4
1	Stopwatch	Manila sheets	Blotting paper	Manila Sheets
2	Safety pipette	Pair of scissors	Thick Lab gloves pairs	Magnifying glass
3	Spatula (metal- lic & plastic, various sizes)	Protective goggles 1pk	Apron	Pair of scissors
4	Laboratory wiper	Field knife	Good manufacturing practice gowns	Blotting paper
5	Programmable calculator	Laboratory wiper	Gasmask	Laboratory wiper
6	Laboratory coats	Face shield	Safety pipette filer	Flash disk
7	Neckties/ Scarves	Tablet counting tray	Examination gloves (box)	Laboratory coats

8	Name tags	Laboratory coats	Laboratory wiper	Neckties/Scarves
9		Rain coats	Laboratory coat	
10		Neck ties/Scarves	Neckties/Scarves	
11		Gum boots		

## 9.2.4 SCHOOL OF NURSING

### 9.2.4.1 BSc N PROGRAMME

S/N	BSc N 1	BSc N 2	BSc N 3	BSc N 4
1	Gloves	Neckties/scarves	Gloves	Gloves
2	Sphygmomanometer	Calculator	Masks and caps	Pediatric Sphygmomanometer
3	Diagnostics Kit	Name tag	Theatre gowns	Flash disk
4	Laboratory coats		Theatre trouser and shirts	Alarm whistle
5	Tape measure		Theatre boots	Pen- torch batteries
6	Pair of scissors		Delivery packs	Neckties/Scarves
7	Thermometer		Fetoscope	Uniforms
8	Shoes, Pen torch and batteries		Shoes	
9	Stethoscope		Uniform	
10	Name tag		Pen-torch and batteries	
11	Uniform			
12	Neck ties/scarves		Neck ties/scarves	



## 9.2.5 SCHOOL OF PUBLIC HEALTH AND SOCIAL SCIENCES

### 9.2.5.1 BSc EHS PROGRAMME

S/N	BScEHS 1	BScEHS 2	BScEHS 3
1	Industrial boots	Drawing Boards	Boots (meat inspection)
2	Industrial gas mask	Measuring tapes	Head gear
3	Protective goggles	Scale ruler	Aprons
4	White coat	Neck ties/scarf	Knives
5	Calculator		Knife sharper
6	Clutch pencil		Belts
7	Geometry set		White coats
8	Neckties/Scarves		Neck ties/scarf
9	Uniforms		

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

## CHAPTER TEN

### LISTS OF ACADEMIC STAFF AT MUHAS

#### 10.1 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.	K. J. Khalid	F	Lecturer	MD (Marmara), MMed (MUHAS)
3.	S. Mrutu	M	Tutorial Assistant	MD (MUHAS)
4.	H. Msanga	M	Tutorial Assistant	MD (MUHAS)
5.	A. Jongo	F	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	Assistant Lecturer	DDS (Cuba), MSc (MUHAS)
11.	P. F. William	M	Assistant Lecturer	MD (MUHAS), MSc (MUHAS)
12.	A. E. Furaha	M	Assistant Lecturer	MD (MUHAS), MSc (MUHAS)
<b>Department of Biochemistry</b>				
13.	*F. H. Urrio	M	Assistant Lecturer and Head	BSc (Namibia), MSc Mol Biol (Linkoping)
14.	E. V. Mbugi	M	Associate Professor	BVM, MVM (SUA), PhD (Wageningen, NL), Post Doc (MUHAS)
15.	T. F. A. Mselle	M	Lecturer	MD (UDSM), MSc (Surrey), PhD (Dartmouth)
16.	F. Dida	F	Lecturer	MD (UDSM), PhD (Mie, Japan)
17.	*B. Stewart	M	Assistant Lecturer	BSc (UDSM), MSc (Seberas Maret Surakarta, Central Java, Indonesia)
18.	J. J. Hayola	M	Assistant Lecturer	BSc (SUA), MSc (SUA)

19.	K. Ndaki	M	Assistant Lecturer	BSc (UDSM), MSc (SUA)
20.	*R. B. Mbwapbo	F	Tutorial Assistant	BSc (SUA)
21.	H. Y. Wawa	F	Tutorial Assistant	BEd (UDSM)
<b>Department of Clinical Oncology</b>				
22.	N. Dharsee	F	Lecturer and Head	MD, MMed (MUHAS), MSc (London)
23.	K. K. Y. Maunda	M	Senior Lecturer	MD (UDSM), MSc (Dundee), DMRT (London)
24.	J. Mwaiselage	M	Lecturer	MD (UDSM), PhD (Bergen)
25.	*F. Yoram	M	Tutorial Assistant	BSc RTT (MUHAS)
26.	*Q. Tarimo	F	Tutorial Assistant	MD (MUHAS)
<b>Department of Clinical Pharmacology</b>				
27.	S. F. Mugusi	F	Senior Lecturer and Head	MBBS (IMTU), PhD (Karolinska)
28.	P. G. Sasi	M	Senior Lecturer	MD, MMed (UDSM), PhD (MUHAS)
29.	R. H. Mkungwe	M	Lecturer	MD, MSc (MUHAS), PhD (Karolinska)
30.	*T. M. Mwakyandile	F	Assistant Lecturer	MD, MSc (MUHAS)
31.	*M. A. Khalfan	M	Assistant Lecturer	MD (MUHAS), MPH (MUHAS), MSc (MUHAS)
32.	J. Jumanne	M	Tutorial Assistant	MD (MUHAS)
33.	Y. Makeja	M	Tutorial Assistant	MD (MUHAS)
<b>Department of Emergency Medicine</b>				
34.	S. S. Kilindimo	M	Lecturer and Head	MD (UDSM), MMed (Stellenbosch, SA)
35.	*H. R. Sawe	M	Associate Professor	MD, MMed (MUHAS), MBA (Mzumbe)
36.	*E. G. Mapunda	F	Tutorial Assistant	MD (MUHAS)
37.	*H. G. Medarakini	M	Tutorial Assistant	MD (MUHAS)
38.	*E. W. Mmbando	M	Tutorial Assistant	MD (MUHAS)
39.	M. F. Omar	M	Tutorial Assistant	MD (MUHAS)
<b>Department of Haematology and Blood Transfusion</b>				
40.	C. Chamba	F	Lecturer and Head	MD (HKMU), MMed (MUHAS)
41.	J. Makani	F	Associate Professor	MD (UDSM), MRCP (UK), PhD (Open University, UK)
42.	A. M. Nasser	F	Lecturer	MD (MUHAS), MMed (MUHAS)
43.	*Y. S. Mtali	M	Assistant Lecturer	BSc HLS (KCMCo)
44.	*W. F. Mawalla	M	Tutorial Assistant	MD (MUHAS)
<b>Department of Internal Medicine</b>				
45.	T. J. Nagu	F	Associate Professor and Head	MD (UDSM), MMed (MUHAS), PhD (Karolinska)

46.	M. Bakari	M	Professor	MD, MMed (UDSM), PhD (Karolinska)
47.	P. Munseri	F	Associate Professor	MD, MMed (UDSM), MPH (Dartmouth), PhD (Karolinska)
48.	P. Ruggajo	M	Senior Lecturer	MD (UDSM), MMed, MSc (MUHAS), PhD (Bergen), Post Doc (Harvard)
49.	P. Chillo	F	Senior Lecturer	MD, MMed (MUCHS), PhD (Bergen)
50.	G. Shayo	F	Senior Lecturer	MD (UDSM), MMed, PhD (MUHAS)
51.	E. V. Komba	M	Lecturer	MD (UDSM), MMed, MSc (MUHAS)
52.	*B. B. Tumaini	M	Lecturer	MD (MUHAS), MMed (MUHAS)
53.	*J. J. Mlay	M	Lecturer	MBChB (Makerere), MMed (MUHAS)
54.	*D. P. Msilanga	M	Lecturer	MD (KCMUCo), MMed (MUHAS)
55.	*D. G. Paulo	M	Tutorial Assistant	MD (MUHAS)
56.	*I. Jonathan	F	Tutorial Assistant	MD (MUHAS)
57.	*E. T. Msangi	F	Tutorial Assistant	MD (MUHAS)
<b>Department of Microbiology and Immunology</b>				
58.	A. Joachim	F	Senior Lecturer and Head	MD (UDSM), MMed (MUHAS), PhD (Karolinska)
59.	M. I. Matee	M	Professor	DDS, MSc, PhD (UDSM)
60.	S. Aboud	M	Associate Professor	MD, Mphil (Bergen), MMed (UDSM), PhD (Karolinska)
61.	J. Manyahi	M	Senior Lecturer	MD (UDSM), MMed (MUHAS)
62.	*M. V. Majigo	M	Senior Lecturer	MD (UDSM), MMed (UDSM)
63.	D. Kamori	F	Lecturer	MD (CUHAS), PhD (Japan)
64.	*F. M. Mbulinyingi	M	Lecturer	MD, MMed (MUHAS)
65.	*S. S. Masoud	M	Assistant Lecturer	MD (Tumaini), MSc (Nottingham)
66.	U. Kibwana	F	Assistant Lecturer	BSc HLS (KCMUCo), MSc (MUHAS)
67.	L. B. Nkinda	F	Assistant Lecturer	BSc HLS (KCMCo), MSc (Moi Uni.)
<b>Department of Obstetrics and Gynaecology</b>				
68.	F. August	M	Senior Lecturer and Head	MD, MMed (MUHAS), PhD (Uppsala)
69.	A. B. Pembe	M	Professor	MD, MMed (UDSM), PhD (Uppsala)

70.	P. S. Muganyizi	M	Professor	MD, MMed (UDSM), PhD (Uppsala)
71.	P. T. Wangwe	M	Senior Lecturer	MBChB (Makerere), MMed (UDSM)
72.	F. M. Alwy	F	Senior Lecturer	MD, MMed (MUHAS), PhD (Kalorinska)
73.	B. Balandya	F	Lecturer	MD, MMed (MUHAS)
74.	A. Said	M	Lecturer	MD, MMed (MUHAS), PhD (Uppsala)
75.	A. I. Kikula	M	Lecturer	MD (MUHAS), MMed (MUHAS)
76.	Z. H. Yusuph	F	Lecturer	MD (MUHAS), MMed (MUHAS)
77.	B. A. Muro	M	Lecturer	MD (KCMUCo), MMed (MUHAS)
<b>Department of Ophthalmology</b>				
78.	C. Mhina		Lecturer and Head	MD, MMed (MUHAS)
79.	M. M. Mafwiri	F	Associate Professor	MD, MMed (UDSM), MSc (LSTM)
80.	*H. E. Masuki	F	Tutorial Assistant	MD (MUHAS)
81.	S. Sachedina	F	Tutorial Assistant	MD (MUHAS)
82.	*N. W. Swai	M	Tutorial Assistant	MD (MUHAS)
83.	*F. Shengeza	M	Tutorial Assistant	MD (MUHAS)
<b>Department of Orthopaedics and Traumatology</b>				
84..	J. Mwanga	M	Lecturer and Head	MBChB (Mbarara), MMed (UDSM)
85.	B. T. Haonga	M	Lecturer	MD (Warsaw), MMed (MUHAS)
86.	*M. R. Kassu	M	Tutorial Assistant	MD (MUHAS)
89.	*G. Njambilo	M	Tutorial Assistant	MD (MUHAS)
<b>Department of Otorhinolaryngology</b>				
90.	D. E. Ntunaguzi	M	Lecturer and Head	MD, MMed (MUHAS)
91.	E. Richard	F	Senior Lecturer	MD, MMed (MUHAS)
92.	*K. B. Mapondela	M	Lecturer	MD (Tumaini), MMed (MUHAS)
93.	A. A. Kahinga	F	Lecturer	MD, MMed (MUHAS)
94.	*I. F. Mwita	M	Tutorial Assistant	MD (MUHAS)
95.	*J. C. Kessy	M	Tutorial Assistant	MD (MUHAS)
96.	A. D. Mrema	M	Tutorial Assistant	MD (MUHAS)
<b>Department of Paediatrics and Child Health</b>				
97.	N. S. Masoud	F	Senior Lecturer and Head	MD (UDSM), MMed (MUHAS), PhD (Switzerland)
98.	K. Manji	M	Professor	MBBS (India), MMed (UDSM), MPH (Harvard)
99.	F. F. Furia	M	Associate Professor	MD, (UDSM), MMed (MUHAS)
100.	H. E. Naburi	F	Senior Lecturer	MD, MMed, (UDSM), MPH (Dartmouth), PhD
101.	E. N. Kija	M	Senior Lecturer	MD, MMed (MUHAS)





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

				(MUHAS)
129.	*M. N. Kilonzo	M	Assistant Lecturer	BSc (Malaysia), MSc Psychol (MUHAS)
130.	*T. D. Njau	F	Assistant Lecturer	BSc Couns. Psych (Iringa), MSc Clin Psychol (MUHAS)
<b>Department of Radiology and Imaging</b>				
131.	M. Jacob	M	Senior Lecturer and Head	MD, MMed (MUHAS), PhD (MUHAS)
132.	R. R. Kazema	M	Senior Lecturer	MD (UDSM), MMed (Nairobi)
133.	*L. Fundikira	F	Lecturer	MD, MMed (CUBA)
134.	Z. Nkrumbih	F	Lecturer	MD, MMed (MUHAS)
135.	*M. Balowa	M	Lecturer	MD, MMed (MUHAS)
136.	*C. Malichewe	F	Lecturer	MBChB (MBARARA), MMed (MUHAS)
137.	*L. Salingwa	F	Tutorial Assistant	MD (MUHAS)
138.	M. Shemweta	F	Tutorial Assistant	MD (MUHAS)
<b>Department of Surgery</b>				
139.	A. H. Mwanga	M	Lecturer and Head	MD (UDSM), MMed, MScSS (MUHAS)
140.	M. D. Mchembe	M	Associate Professor	MD (UDSM), MMed (UDSM)
141.	O. Nyongole	M	Associate Professor	MD, MMed (MUHAS), MSc (Tumaini)
142.	L. O. Akoko	M	Senior Lecturer	MD (UDSM), MMed (MUHAS)
143.	R. H. Khamis	M	Lecturer	MD, MMed (MUHAS)
144.	M. J. Byomuganyizi	M	Lecturer	MD (UDSM), MMed (MUHAS)
145.	F. A Mushi	F	Lecturer	MD (MUHAS), MMed (MUHAS)
146.	N. E. Kivuyo	F	Lecturer	MD (MUHAS), MMed (MUHAS)
147.	M. A. Misidai	M	Lecturer	MD (MUHAS), MMed (MUHAS)
<b>Biomedical Engineering Unit</b>				
148.	O. Pinda	M	Assistant Lecturer and Head	ADE (MUST) PGD, MSc (UDSM), MSc (Anhalt)
149.	D. Mzurikwao	M	Lecturer	BE (Electronics & Comm. Eng (St Soseph Univerty of Tanzania), ME (Tianjin, China), PhD (Kent, UK)
150.	T. Kabika	M	Assistant Lecturer	BSc (UDSM), MSc (TUTE), MSc (Anhalt)
151.	*S. Mayala	M	Assistant Lecturer	BSc (UDOM) MSc (AIMS)
152.	*D. E. Minja	F	Tutorial Assistant	BEng (MUST)

153.	*R. Said	M	Tutorial Assistant	BEng (MUST)
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\*On study leave

\*\*On leave of absence

## 10.2 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.	L. E. Mkony	F	Lecturer and Head	DDS (UDSM), PhD (Bergen)
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.	T. S. Ndekero	M	Lecturer	DDS (UDSM), MDent (MUHAS)
20.	E. Mulyahela	M	Tutorial Assistant	DDS (MUHAS)

### 10.3 SCHOOL OF PHARMACY

S/N	Name	Sex	Academic rank	Qualifications
<b>Department of Medicinal Chemistry</b>				
1.	V. Manyanga	F	Senior Lecturer and Head	BPharm (UDSM), MPharmSc, PhD (KULeuven)
2.	E. A. Kaale	M	Professor	BPharm (UDSM), MPharm Sc, PhD (KULeuven, Belgium), PGD- M&E (Stellenbosch, SA)
3.	V. K. Mugoyela	F	Associate Professor	BPharm (UDSM), PhD (Sunderland)
4.	J. Sempombe	M	Senior Lecturer	BSc Edu. (UDSM), MSc Chem (UDSM), PhD (New Mexico)
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	Associate Professor and Head	BPharm (India), MSc (Jomo Kenyatta Univ.), MPharm Sc, PhD (KULeuven)

19.	K. D. Mwambete	M	Professor	MSc Pharm (Havana), PhD (Ma- drid)
20.	D. A. S. Mloka	F	Senior Lecturer	BSc, MSc, (London), PhD (MU- HAS)
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.	R. Mwakalukwa	M	Lecturer and Head	BPharm (MUHAS), MPharm (MUHAS), PhD (Kyushu)
25.	S. M. Maregesi	F	Associate Professor	BSc (Hons.) (UDSM), Cert. Pharm Techn, MPharmSc (Ghent), PhD (Antwerp)
26.	O. D. Ngassapa	F	Associate Professor	BPharm (UDSM), PhD (Chicago)
27.	D. K. B. Runyoro	F	Senior Lecturer	BPharm (UDSM) MPhil (Brad- ford), PhD (MUHAS)
28.	*G. Sambayi	M	Tutorial Assistant	BPharm (MUHAS)
29.	M. D. Lugoba	M	Tutorial Assistant	BPharm (MUHAS)
<b>Department of Clinical Pharmacy and Pharmacology</b>				
29.	R. Mutagonda	M	Lecturer and Head	Bpharm, MSc (MUHAS), PhD (MUHAS)
30.	A. R. Kamuhabwa	M	Professor	Bpharm (UDSM), Mpharm Sc, PhD (KU Leuven)
31.	O. M. S. Minzi	M	Professor	MSc Pharm (Pyatigorsk), MSc (VUB-Vrije, Brussels), PhD (UDSM)
32.	I. Alphonse	M	Assistant Lecturer	Bpharm, MSc (MUHAS)
33.	H. J. Mlyuka	M	Assistant Lecturer	Bpharm, Mpharm (MUHAS)
34.	*W. Mikomangwa	M	Assistant Lecturer	Bpharm (MUHAS)
35.	M. Kilonzi	M	Assistant Lecturer	Bpharm (MUHAS)
36.	*W. A. Kibanga	F	Tutorial Assistant	Bpharm (MUHAS)

\*On study leave

\*\*\*On leave without pay

## 10.4 SCHOOL OF NURSING

S/N	Name	Sex	Academic rank	Qualifications
<b>Department of Clinical Nursing</b>				
1.	M. Ndile	M	Lecturer and Head	BSc. N (UDSM), MSc (MUHAS), PhD (Umea)
2.	L. T. Mselle	F	Associate Professor	RN, RM, Dipl. Ned (Dar), ADNE, BA Sociology (UDSM), Mphil HP (Bergen), PhD (MUHAS)
3.	D. A. Mkoka	M	Lecturer	BSc. N (UDSM), MSc (MUHAS), PhD (MUHAS)
4.	J. S. Ambikile	M	Lecturer	BSc. N (UDSM), MSc (MUHAS), PhD (Nagasaki)
5.	M. K. Iseselo	M	Assistant Lecturer	BSc. N (UDSM), MSc (MUHAS)
6.	F. B. Ramadhani	F	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),
11.	S. Mushy	F	Assistant Lecturer	BSc. N (MUHAS), MSc. MW&WH (Makerere)
12.	A. F. Masae	F	Assistant Lecturer	BSc. N (MUHAS), MSc MW&WH (
13.	G. G. Lukumay	F	Assistant Lecturer	BSc. N (MUHAS), MSc (MUHAS)
14.	D. L. Mwakawanga	F	Assistant Lecturer	BSc. MW (MUHAS), MSc MW&WH (MUHAS)
15.	A. A. Lyimo	M	Assistant Lecturer	BSc. MW (MUHAS), MSc (Central South, China)
16.	*V. Chikwala	M	Tutorial Assistant	BSc. MW (MUHAS)
17.	*H. Lilenga	M	Tutorial Assistant	BSc. MW (MUHAS)
<b>Department of Nursing Management</b>				
18.	B. M. Morris	M	Assistant Lecturer and Head	BSc. N (MUHAS), MBE (PENN)
19.	E. A. M. Tarimo	F	Associate Professor	BSc. N (UDSM), Mphil (Bergen), PhD (Karolinska)
20.	K.A. Malima	F	Senior Lecturer	BSc.N (UDSM), Mphil (Bergen), PhD (Bergen)
21.	R. H. Kiangi	M	Assistant Lecturer	BSc.N (UDSM), MSc (SUA)
22.	E.E. Summary	M	Assistant Lecturer	BSc.N (MUHAS) MSc.N (Xiang Ya,

23.	A. Kibwanda	M	Tutorial Assistant	BSc. N (MUHAS)
24.	N. E. Mawi	F	Tutorial Assistant	BSc. N (MUHAS)

## 10.5 SCHOOL OF PUBLIC HEALTH AND SOCIAL SCIENCES

S/N	Name	Sex	Academic rank	Qualifications
<b>Department of Behavioral Sciences</b>				
1.	E. Metta	F	Senior Lecturer and Head	BA, MA, (UDSM), PhD (Groningen)
2.	P. G. M. Mujinja	M	Professor	BA (UDSM), MPH, CIH, MA (Econ) (Boston), PhD (Heidelberg)
3.	D. C. V. Kakoko	M	Associate Professor	Bed, MA (UDSM), PhD (Bergen)
4.	S. R. Kamazima	M	Associate Professor	Bed, MA (UDSM), PhD (Minnesota)
5.	M. Ezekiel	M	Lecturer	BA, MA (UDSM), PhD (Oslo)
6.	I. H. Mosha	F	Lecturer	BA, MA (UDSM), PhD (Nijmegen)
7.	**P. D. Nahato	F	Lecturer	BA (UDSM), Mphil (Oslo), PhD (UDSM)
8.	H. Saronga	F	Lecturer	BA, MA (UDSM), PhD (Heidelberg)
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.	H. Mruma	M	Lecturer and Head	MD (UDSM), MPH (MUHAS), PhD (Edinburgh)
13.	D. O. Simba	M	Associate Professor	MD, MMed (UDSM), PhD (Karolinska)
14.	A. T. Kessy	F	Associate Professor	MD, MMed (UDSM)
15.	D. P. Urassa	M	Professor	MD (UDSM), MTH (Queensland), MPH (Rome), PhD (Uppsala)
16.	B. F. Sunguya	M	Associate Professor	MD (UDSM), Msc, PhD (Tokyo)
17.	M. Amour	F	Lecturer	MD (MUHAS), MPH (Dartmouth) MMed (MUHAS)
18.	*N. J. Saronga	F	Assistant Lecturer	BSc HEHN (SUA), MSc. Nutrition (Wageningen)
19.	S. M. Bakar	F	Assistant Lecturer	BSc (SUA), MSc (Michigan State University)
<b>Department of Environmental and Occupational Health Sciences</b>				
20.	J. S. Mlimbila	F	Lecturer and Head	BSc (SUA), MSc (Wageningen) PhD (UDSM)

21.	S. H. D. Mamuya	M	Associate Professor	BSc (Eng) (UDSM), Dipl. (San. Eng) (Delf), Mphil (Bergen), PhD (Bergen)
22.	E. Mrema	M	Senior Lecturer	BSc, MSc (UDSM), PhD (Milano)
23.	G. H. Sakwari	F	Lecturer	BSc EHS (UDSM), MSc. (Bergen), PhD (Bergen)
24.	S. S. Kishinhi	M	Lecturer	BSc. (SUA), MSc. EncSc (Jackson State), PhD (Jackson State)
25.	H. H. Mwanga	M	Lecturer	MD (UDSM), MMED (Cape Town), FCPHM (SA) Occ Med (Cape Town)
26.	D. L. R. Rweyemamu	M	Lecturer	BSc. EE. (UDSM), MSc. (UDSM) PhD (Lincoln)
27.	H. L. Mohamed	M	Lecturer	BSc EHS, MSc (UDSM), PhD (ARU)
28.	Z. Kimera	F	Lecturer	BSc (SUA), MSc (SUA), PhD (MUHAS)
29.	*H. Kaijage	M	Assistant Lecturer	BSc EHS (UDSM), MSc (UDSM)
30.	*L. P. Mwelange	M	Assistant Lecturer	BSc (MUHAS), MSc (MUHAS)
31.	*J. S. Bachwenkizi	M	Assistant Lecturer	BSc (ARDHI Univ), MSc (IHE DELFT, The Netherlands)
32.	*S. S. Kabelwa	F	Assistant Lecturer	BSc (ARDHI Univ), MSc (MUHAS)
33.	*S. S. Salehe	M	Assistant Lecturer	BSc EHS (MUHAS), MPH (UK), MSc (USA)
34.	M. E. Shao	F	Assistant Lecturer	BSc (ARU), MSc (UDSM)
35.	W. N. Mwakalasya	M	Assistant Lecturer	BSc (MUHAS), MSc (Chongqing Medical University)
36.	*W. J. Axweso	F	Assistant Lecturer	BSc (SUA), MSc (MUHAS)

#### Department of Development Studies

37.	A. A. Mlaki	M	Lecturer and Head	BSc, MA (UDSM), PhD (Aarhus)
38.	G. M. Frumence	M	Associate Professor	BA, MA (UDSM), PhD (Umea)
39.	T. M. Nyamhanga	M	Senior Lecturer	BSc (N), MA (UDSM), PhD (MUHAS)
40.	G. R. Mahiti	F	Lecturer	BSc, MA(SUA), PhD (MUHAS)
41.	G. Ruhago	M	Lecturer	Bsc.EHS, MA (MUHAS), PhD (Bergen)
42.	N. S. Sirili	M	Lecturer	MD, MSc (MUHAS), PhD (Umea)
43.	P. Luoga	M	Assistant Lecturer	BHSM (Mzumbe), MSc (MUHAS)
44.	M. M. Tungu	M	Assistant Lecturer	BA, MA (UDSM)
45.	L. S. Paulo	F	Assistant Lecturer	MD (MUHAS), MSc (London)
46.	F. A. Ngowi	M	Assistant Lecturer	BA, MA (UDSM)



47.	A. Kagaigai	F	Assistant Lecturer	BA, MA (UDSM)
48.	N. Tesha	M	Assistant Lecturer	BA, MA (UDSM)
49.	T. Ruwaichi	M	Tutorial Assistant	BA (Ardhi University)

#### Department of Epidemiology and Biostatistics

50.	*M. M. Mizinduko	M	Assistant Lecturer and Head	MD (MUHAS), MPH (BOSTON)
51.	G. Kwesigabo	M	Associate Professor	MD (UDSM), MSc (London), Med (Manchester), PhD (Umea)
52.	M. R. Kazaura	M	Associate Professor	BA (UDSM), MSc (London), PhD (Bergen)
53.	R. M. Mpembeni	F	Associate Professor	BSc (UDSM), MSc (London), PhD (MUHAS)
54.	C. S. Moshiri	F	Senior Lecturer	BSc (UDSM), MSc (London), PhD (Bergen)
55.	D. T. Faini	F	Lecturer	MD (MUHAS), MSc (London), PhD (Karolinska)
56.	*T. A. Ottaru	F	Assistant Lecturer	MD (MUHAS), MSc Epi. (Antwerpen)
57.	*H.A. Paulo	M	Tutorial Assistant	BSc (UDOM)
58.	J. V. Mbishi	F	Tutorial Assistant	BSc (Mzumbe)
59.	E. A. Mboya	M	Research Fellow Trainee	MD (MUHAS)
60.	E. Bukundi	M	Assistant Lecturer	BPARM (ST. John), MSc (MUHAS)
61.	D. E. Aman	M	Research Fellow Trainee	MD (MUHAS)

#### Department of Parasitology and Medical Entomology

62.	B. Ngasala	M	Associate Professor and Head	MD (UDSM), PhD (Karolinska)
63.	D. S. Tarimo	M	Associate Professor	MD, MSc TDC (UDSM), PhD (Denmark)
64.	D. B. Gasarasi	F	Senior Lecturer	Dipl.Ed, BSc (UDSM), M SPH, ScD (Tulane)
65.	L. E. Edward	M	Lecturer	MD (MUHAS), PhD (Uppsala University)
66.	T. D. Makene	F	Assistant Lecturer	BSc (UDSM) MSc (UDSM)
67.	*D. D. Mutemi	F	Assistant Lecturer	BSc (UDSM), MSc PE (MUHAS)
68.	V. Mushi	F	Assistant Lecturer	BSc (UDSM), MSc. TDC (MUHAS)

#### Department of Bioethics and Health Professionalism

69.	*R. S. Joseph	F	Lecturer and Head	MD (UDSM), MMED (Paed) (MUHAS), MBE (Upenn)
70.	*J. E. Shayo	F	Assistant Lecturer	BSc.N (UDSM), MA-HPM (MUHAS), MBE (Upenn)
71.	*G. K. Pancras	M	Assistant Lecturer	MBB(UDSM), MBE (MUHAS)

72.	R. M. Athanas	M	Assistant Lecturer	Dip -PHIL(Nairobi), BA-THEO (JUCO), MBE (MUHAS)
73.	*R. E. Rabacchi	F	Assistant Lecturer	LLB (Mzumbe), Pg. Dip (Legal Practice) (LST) MBE (MUHAS)
74.	Lazaro Haule	M	Assistant Lecturer	BSc Public Health (MMU-Uganda), MBE (MUHAS)

\*On study leave

\*\* On leave of absence

\*\*\* On leave without pay

## 10.6. 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.	Ester Innocent	F	Associate Research Professor	BSc, MSc (Chem.) PhD (Chem.) (UDSM)
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>				
8	F. K. Machumi	M	Senior Research Fellow and Head	BSc. Educ (UDSM), MSc Chem (Botswana); PhD (UoNBI)
9.	*B. S. Ndiege	M	Assistant Research Trainee	BSc Chem (UDSM), MSc Trad Med Development (MUHAS)
10.	*M. N. Mbunde	M	Assistant Lecturer	BSc, MSc (SUA)
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 Research Fellow	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	Assistant Research Fellow	BSc Botanical Sci (UDSM), MSc Ethnobotany and Molecular Plant Systematics (MUHAS)
19.	*B. Msigwa	M	Assistant Research Fellow	BSc in Botanical Sciences (UDSM), MSc Climate and Sustainable Development (UDSM)

\*On study leave

## 10.7. INSTITUTE OF ALLIED HEALTHSCIENCES

S/N	Name	Sex	Academic Rank	Qualifications
<b>School of Hygiene – Muhimbili</b>				
1	M. Muhochi	M	Senior tutor and Head	DEHS (UDSM), BSc EHS(UDSM), CIH (Norrway), MA.HPM (MUHAS)
2	I. Swai	M	Senior Tutor	BSc. EHS (MUHAS)
3	D. J. Mazali	M	Principal Tutor	DEHS (UDSM), DHPEd (CEDHA), MA (Limburg), MSc (Manchester)
4	H. K. Nyagawa	M	Senior Tutor	DEHS (UDSM), BSc (SUA), MSc (Leeds)
5	R. Byabato	F	Senior Tutor	Dip. In Clin. Medicine, BSc EHS (UDSM), MPH (Tumaini University – Kilimanjaro)
6	M. Machugu	M	Senior Tutor	DEHS (UDSM), BSc EHS(UDSM), CIH (Norrway), MA.HPM (MUHAS)
7	M.B. Kilima	M	Senior Tutor	DEHS (UDSM), Dipl. In Food Science and Inspection (UON), Dip in Health Personnel Education (Arusha)
8.	R. Y. Esmail	F	Tutor	BSc EHS (MUHAS), MSc EHO
9	M. A. Khamis	F	Tutor	BSc EH (SUZA)
10	M. A. Bakar	M	Tutor	BSc EH (SUZA)
11	K.O Jamabae	F	Tutor	BSc EH (SUZA)
12	R. E. Tweve	M	Tutor	DEHS (MUHAS)

School of Environmental Health Sciences – Mpwapwa				
13	R. M. Tarimo	M	Principal Tutor and Head	DEHS (UDSM), Cert. in Occ. Health and Safety (Nairobi)
14.	F. M. Zacharia	M	Tutor	ADD BSc E.H.S (MAKERERE UNIVERSITY) Dip in HPed (CEDHA)
15	B. M. Onesmo	F	Tutor	BSc E.H.S (MUHAS)
16.	O. F. Mbangati	M	Tutor	DEHS (UDSM), BSc EHS (Kampala)
17.	A. Mandele	M	Tutor and Warden	BSc EHS (MUHAS)
18.	P. P Msangi	M	Tutor	BSc EHS (MUHAS), MSc Occupational Health and Safety (MUHAS)
19.	K. H Ongewe	M	Tutor	DEHS, BScEHS (MUHAS)
20	R. M. Bofu	M	Tutor	BScEHS with IT (RUCU)
School of Environmental Health Sciences – Tanga				
21	L. M. Munaku	M	Senior Tutor and Head	DEHS (UDSM), Dip in HPed (CEDHA), Cert in e-Learning and Management (Austria)
22	R. E. Kunchela	M	Senior Tutor	DEHS (EA), Cert. in Occ. Health Hy- giene and Safety (UDSM),
23	M. Gwimo	M	Senior Tutor	DEHS (UDSM), Dip. In HPed. (CEDHA), Adv. Dip. in Vector Control (Tanga)
24	S. M. Lusana	M	Tutor	DEHS (UDSM), Dip. in HPed (CEDHA)
25	E. G. Mawalla	M	Tutor	DEHS (UDSM), Dip. in HPed (CEDHA)
26.	J. T. Mbise	F	Tutor	BSc EHS (MUHAS)
School of Medical Laboratory Sciences				
27.	E. M. Mfinanga	M	Senior Tutor and Head	CMLT, DMLT (UDSM)
28.	S. D. I. Ntambuto	M	Senior Tutor	DMLT, ADMLS (UDSM), BSc (OUT), MSc Parasitology (London)
29.	C. Msuya	M	Tutor	CMLT, DMLT (UDSM), BMLS (IMTU)
30.	A. Mawazo	M	Tutor	DMLS (MUHAS), Dipl HPED (CED- HA), BMLS (KCMC)
31	S. Lubapula	M	Tutor	BMLS (MUHAS)
32	H. J. Nkondo	F	Tutor	BMLS (IMTU)
33	E. N. Nilla	F	Tutor	BMLS (IMTU)
School of Pharmaceutical Sciences				
34.	T. Lyombe	F	Tutor and Head	B. Pharm (UDSM) MPHARM (MUHAS)



36.	R. I. Amiri	M	Senior Tutor	Dip. Pharm, (UDSM), B. Pharm (UDSM), MSc.Clin. Pharm (MUHAS)
37.	E. Tuarira	F	Senior Tutor	B. Pharm (UDSM), MA-HPM (MUHAS)
38.	L. P. Chanila	F	Tutor	B. Pharm (UDSM)
39.	C. Marwa	M	Tutor	B. Pharm (RGUHS-India)
40.	P. J. Njalale	M	Tutor	Dip. Pharm, B. Pharm (UDSM), Msc. Pharm Management (MUHAS)
41	B. D. Lalama	F	Tutor	B. Pharm (St. Johns)
42	I. A. Mmbando	F	Tutor	B. Pharm (CUHAS)
43	S. S. Mwita	M	Tutor	B. Pharm (MUHAS)
44	R. R. Yusuph	M	Tutor	B. Pharm (St. Johns)
45	P. Ipagala	M	Tutor	B. Pharm (MUHAS)
46	A. Sultan	F	Tutor	B. Pharm (UDSM) Master Degree of Pharmaceutical Management (MUHAS)

#### School of Radiography

47.	C. E.L. Malika	F	Senior Tutor and Head	DDR (UDSM), Dip in HPed (CEDHA), BSc & MSc Ultrasound (Uganda), Cert. in Med. Ultrasound (Fonty's, Holland), Cert. In optimization of Diagnostic Radiography (Brussels, Belgium), Certificate in Mammography (Salt Lake City, USA)
48	L. E. Ndolele	M	Principal Tutor	DDR (UDSM), Cert. in Health System Res. Methodology, Cert. in Medical Ultrasound (Fonty's, Holland)
49.	E. A. Mahanja	M	Senior Tutor	DDR (UDSM), Dip. in HPed (CEDHA), Cert. in Radiotherapy (South Africa), Cert. in Medical Ultrasound (Fonty's) Holland
50	C. E Tairo	M	Tutor	DDR (MUHAS) Cert. Teaching methodology (MUHAS)
51	S. J. Kadugu		Tutor	DDR (UDSM), BSc Radiography (Northern Ireland) MSc Diagnostic Ultrasound (Uganda)

#### Regional Dermatology Training Centre

52.	D. R. Mavura	M	Lecturer and Head	MD (Cuba), MMed (Tumaini)
53.	E. J. Massenga	M	Associate Professor	MD (UDSM), MMed. Dermatovenereology (Berlin), MPhil. (Bergen)

54.	H. Grossmann	M	Associate Professor	MD, MMed Dermatovenereology, Dip. in Trop. Med. Parasite, Spec. Degree Trop. Med. (Hamburg)
<b>Tanzania Training Centre for Orthopaedic Technologists</b>				
55.	L. B. Mtalo	M	Senior Tutor and Head	DOT (UDSM), Adv. Dip. in P & O (Germany), PGD (UK)
56.	A. Ndossi	M	Senior Orthopaedic Technologist	DOT (UDSM), Adv. Dip. in P & O (Germany)
57.	H. A. Mallya	F	Senior Orthopaedic Technologist	DOT (UDSM), Adv. Dip. in P & O (Germany)
58.	E. Kasegezya	M	Senior Tutor	DOT (UDSM), BSc P&O (KCMUCO)
59.	B. G. Moshi	M	Tutor	DOT (UDSM), BSc P&O (KCMUCO)
60.	E. A. Mlay	F	Tutor	BSc P&O (KCMUCO)
61.	D. G. Shirima	M	Tutor	BSc P&O (KCMUCO)
62.	E. L Malisa	F	Tutor	DOT (MUHAS), BSc P&O (KCMUCO)
63.	K. Rwegoshora	M	Tutor	BSc P&O (KCMUCO)
64.	V. Mwaijande	F	Tutor	DOT (UDSM), BSc (&O)
65.	A. R Kijori	F	Assistant Tutor	DOT (UDSM)
<b>School of Nursing</b>				
66.	R. M. Mgonja	F	Nursing Officer I/Tutor and Head	Dip. in N. & Midwifery, ADNE (UDSM), BSc N. Aga-Khan
67.	L. R. Issarow	F	PNO I	RN (Bugando), BSc N, MPH (IMTU)
68.	E. Kiula	F	PNO II	RN (KCMC), OTM (Mbeya), BSc N (KCMC), MPH (KCMC).
69.	M. Nkaina	F	Nursing Officer I	Dip in N, (MZA), ADNE (UDSM)
70.	M. Malolela	F	Nurse Tutor II	Dip. in N. & Midwifery, ADNE (UDSM)
71.	M. Sharif	F	Nurse Tutor	BSc. N (CUHAS)
72.	E. I. Naike	F	Nurse Tutor II	Dip. in N. & Midwifery, ADNE, Dip.in Social Welfare (UDSM)
73.	T. M. Fadhili	F	Nurse Tutor II	Dip. in N. & Midwifery (KCMC), ADNE (UDSM)
74.	P. Gwasma	F	Nursing Officer II	Dp in N, ADNE (UDSM)
75.	O. Nghahy	F	Nursing Officer II	Dip in N. and Midwifery, ADNE (MU- HAS), BSc N (Aga Khan)
76.	N. J. Ngumo	F	NO II	RN (MUHAS), PGD ICU (South Africa), BSc N (KCMC)
77.	E. Mroso	F	NO II	RN, BSc N (Aga Khan)

78.	S. Mlabwa	F	NO II	RN, BSc N (MUHAS)
79.	E. Swai	F	NO II	RN, BSc N
80.	G. Naftari	F	NO II	RN, BSc N
81.	E. Mwakalinga	F	Nursing Officer III	Dip in N, (Hydom), ADNE (UDSM)

\*On study leave

\*\*On leave of absence

\*\*\*On leave without pay

## 10.7 THE UNIVERSITY LIBRARY

S/N	Name	Sex	Academic rank	Qualifications
1.	A. Mcharazo	M	Associate Professor and Director	Diploma (SLADS, Bagamoyo), BA (Thames Valley University), MA (Thames Valley University), PhD (University of West London), FCILIP (UK)
2.	R. Chande-Mallya	F	Senior Librarian and Head, Readers' Section	BEd (UDSM), MA Information Studies (UDSM), PhD Information Studies (UDSM)
3	S. E. Msonde	M	Senior 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	Librarian and Head, Periodic and e-Resources	BA Information Science (Zululand), MSc. Information Studies (KwaZulu-Natal), PhD Information System & Tech. (KwaZulu-Natal)
5.	**M.A. Ruzegea	F	Librarian	BA Edu (UDSM), MA Library Information Studies (UDSM), PhD Library and Information Sciences (IIUM, Malaysia)
6.	C. W. Marwa	M	Assistant Librarian	BSc. Computer science (St. Joseph Institute), MA Information Studies (UDSM).
7.	B. E. Sengo	M	Assistant Librarian Trainee	BSc. Informatics (SUA), MSc. Computer and IT Systems Engineering (UDSM)
8.	D. M. Sabas	M	Assistant Library and Head, ICT Section	Bed. Education Psychology, MA Information Studies (UDSM)
9.	V. C. Mwalyego	M	Assistant Librarian	BSc. Library Information Science (Makerere), MA Information Technology (Pretoria)
10.	L. L. Kanyuma	M	Assistant Librarian	BA Information Studies (UDSM), MA Library Information System

				(Tumaini)
11.	W.J. Mviombo	M	Assistant Librarian	BA Library Information Studies (Tumaini), PGD (UDSM) MA Information Studies (UDSM)
12.	R. Adam	F	Assistant Librarian Trainee	BA Library and Information Studies (UDSM)
13.	B. Orgenes	M	Assistant Librarian Trainee	BA Library and Information Management (Mzumbe)
14.	S. Kassim	F	Assistant Librarian Trainee	BSc Library Information Management (Mzumbe)

\*\* Leave of Absence

### 10.8 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)
3.	P. V. Msekwa		Tutorial Assistant	BSc. Computer Sci. & Eng. (SJUT)



## CHAPTER ELEVEN

### ACADEMIC PRIZES

#### 11.1 SCHOOL OF MEDICINE

##### 11.1.1 ACADEMIC PRIZES

S/N	PRIZE	AWARDING AUTHORITY	DESCRIPTION	AMOUNT (TZS)
1.	University Prize	MUHAS	Best final year MD Student	100,000/=
2.	Vice Chancellors Prize	MUHAS	MD student with highest marks in first year degree examinations	100,000/=
3.	African Medical Research Prize	AMREF	Best Fourth year MD Student in Community Medicine	100,000/=
4.	Ngirwamungu Memorial Prize	Medical Association of Tanzania (MAT)	Best Final year MD Student in Community Health	500,000/=
5.	Dr. Martin Mkono Prize	Paediatrics Association of Tanzania	Best Final year MD in Paediatrics and Child Health	150,000/=
6.	Microbiology and Immunology Prize	Prof. K. Linquist	Best second year MD in Microbiology/Immunology	50 USD in Books
7.	Pathology Prize	Association of Pathologists of Tanzania	Best second year MD Student in Pathology	100,000/=
8.	University Prize	MUHAS	Best Final Year BSc RTT Student	100,000/=
9.	University Prize	MUHAS	Best Final Year BMLS Student	100,000/=
10.	Vice Chancellors Prize	MUHAS	BSc. RTT student with highest marks in first year degree examination	100,000/=
11.	Vice Chancellors Prize	MUHAS	BMLS student with highest marks in first year degree examination	100,000/=

#### 11.2 SCHOOL OF DENTISTRY

## 11.2.1 ACADEMIC PRIZES

S/N	PRIZE	AWARDING AUTHORITY	DESCRIPTION	AMOUNT (TZS)
1.	University Prize	MUHAS	Best final year student	100,000/=
2.	Vice Chancellor's Prize	MUHAS	Best first year student	100,000/=
3.	Ministry of Education, Science and Technology Prize	MoEST	Best final year student	100,000/=
4.	Dr. C.V. Mtawali Prize	Dr. C.M. Luhanga	The best DDS student in the final year examination	65,000/= In Books <b>230,000/= (USD 100)</b>
5.	Flora Fabian-Prize	Prof. F. Fabian-	The best DDS student with highest marks in Anatomy	100,000/=
6.	Matee Prize	Prof. M.I.N. Matee	The best DDS student with highest marks in Microbiology	100,000/=
7.	Stoelinga Prize	Prof. Paul Stoelinga	The best 3 <sup>rd</sup> year DDS student with highest marks in Oral and Maxillofacial Surgery	100,000/=
8.	Stoelinga Prize	Prof. Paul Stoelinga	The best 4 <sup>th</sup> year DDS student with highest marks in Oral and Maxillofacial Surgery	100,000/=
9.	Stoelinga Prize	Prof. Paul Stoelinga	The best 5 <sup>th</sup> year DDS student with highest marks in Oral and Maxillofacial Surgery	100,000/=
10.	Miracle Corners of the World Prize	MCW	The best fourth year DDS male student in clinical discipline	100,000/=
11.	Miracle Corners of the World Prize	MCW	The best fourth year DDS female student in clinical discipline	100,000/=
12.	Mumghamba Prize	Dr. EGS Mumghamba	The best DDS student in Periodontology	100,000/=
13.	Mandari Prize	Dr. G. Mandari	The best DDS student in Operative Dentistry	100,000/=
14.	Mugonzibwa Prize	Dr. E.A. Mugonzibwa	The best DDS student in Orthodontics	100,000/=

15.	Hellen Mlangwa Prize	Dr. Matilda Mtaya-Mlangwa and Family	The second-best DDS student in Orthodontics	100,000/=
16.	Ntabaye Prize	Prof. M. Ntabaye	The best student in Preventive and Community Dentistry	200,000/=
17.	Dr. Massaga Prize	Dr. Julius Massaga	Final year student with the best Elective Field Report provided he/she has a minimum score of B+ in Preventive and Community Dentistry	100,000/=
18.	Stoelinga Prize	Dr. E. N. Simon	Best DDS III student in Oral and Maxillofacial Surgery	100,000/=
19.	Stoelinga Prize	Dr. E. N. Simon	Best DDS IV student in Oral and Maxillofacial Surgery	100,000/=
20.	Stoelinger Prize	Dr. E. N. Simon	Best Final Year DDS student in Oral and Maxillofacial Surgery	100,000/=
21.	CN Pharmacy Prize	CN Pharmacy	Best Final Year DDS student in Oral and Maxillofacial Surgery	100,000/=
22.	Prof. Bakari Lembariti Prize	Tanzania Dental Journal	Best Fourth Year DDS student	200,000/=
23.	<i>Dr. Klint Innovative dental proposal award</i>	Dr Klint Nyamuhekung'e	DDS student with the most innovative elective proposal	200,000/=

## 11.3 SCHOOL OF PHARMACY

### 11.3.1 ACADEMIC PRIZES

SN	PRIZE	AWARDING AUTHORITY	DESCRIPTION	AMOUNT
1	Vice Chancellor's Prize	MUHAS	Best first year Student	100,000/=
2	Nakiete Pharmacy Award	Nakiete Pharmacy	Best First Year Student	100,000/=
3	Tanzania Food & Drugs Authority Prize	Tanzania Food & Drugs Authority	Best First Year Student in Pharmaceuticals	100,000/=

4	MansoorDaya Prize	MansoorDaya Chemicals Ltd	Overall Best Student in the Second Year	100,000/=
5	Tanzania Food & Drugs Authority Prize	Tanzania Food & Drugs Authority	Best Second Year Student in Pharmaceutics	100,000/=
6	Nakiete Pharmacy Award	Nakiete Pharmacy	Overall Best Student in the Second Year	100,000/=
7	MansoorDaya Prize	Mansoor Daya Chemicals Ltd	Overall Best Student in the Third Year	100,000/=
8	Nakiete Pharmacy Award	Nakiete Pharmacy	Overall Best Third Year Student	100,000/=
9	Nakiete Pharmacy Award	Nakiete Pharmacy	Best Third Year Student in Pharmaceutical Microbiology	100,000/=
10	Tanzania Food & Drugs Authority Prize	Tanzania Food & Drugs Authority	Best Third Year Student in Pharmaceutics	100,000/=
11	University Prize	MUHAS	Best Final Year Student	100,000/=
14	Nakiete Pharmacy Award	Nakiete Pharmacy	Overall best (highest GPA) student in the School	100,000/=
15	Nakiete Pharmacy Award	Nakiete Pharmacy	Best Student in Medicinal Chemistry	100,000/=
16	Nakiete Pharmacy Award	Nakiete Pharmacy	Best Student in Pharmacognosy	100,000/=
17	Nakiete Pharmacy Award	Nakiete Pharmacy	Best Student in Pharmaceutics	100,000/=
18	Nakiete Pharmacy Award	Nakiete Pharmacy	Best Student in Pharmacy Practice	100,000/=
19	Tanzania Food & Drugs Authority Prize	Tanzania Food & Drugs Authority	Best Final Year Student in Pharmaceutics	100,000/=
20	Shely's Ltd Prize	Shely's Pharmaceuticals	Best final year Student in Medicinal Chemistry	100,000/=
21	FABERK Prize	FABERK PHARMACY	Best final year Student in Medicinal Chemistry	100,000/=
22	NIMR Prize	Tanzania National Institute for Medical Research	Best final year student in Research Project	100,000/=
23	Pharmacy Council Prize	Pharmacy Council	Best final year Student in Pharmacy Practice	100,000/=

24	Pharmacy Council Prize	Pharmacy Council	Best Second year Student in Pharmacy Practice	100,000/=
25	Pharmacy Council Prize	Pharmacy Council	Best Third year Student in Pharmacy Practice	100,000/=
26	Action Medeor Prize	Action Medeor	Best third year student in Pharmaceutical Quality Assurance	300,000/=
27	Action Medeor Prize	Action Medeor	Best final student year with highest professional integrity	300,000/=
28	Professor Minzi's Therapeutics winner Prize	Professor Minzi OMS	Best Bpharm4 student in Therapeutics	100,000/=

## 11.4 SCHOOL OF NURSING

### 11.4.1 ACADEMIC PRIZES

S/N	PRIZE	AWARDING AUTHOR-ITY	DESCRIPTION	AMOUNT (TZS)
1.	University Prize	MUHAS	Best Final Year Student	100,000/=
2.	Vice Chancellor's Prize	MUHAS	Best First Year Student	100,000/=
3	Dean's Prize	Dean, School of Nursing, MUHAS	Overall Best Final Year Student	100,000/=
4.	Tanzania Midwives Association's (TAMA) Prize	Tanzania Midwives Association (TAMA)	Best Third Year Student in Maternal and Child Health Nursing	100,000/=
5.	Associate Dean's Prize	Associate Dean, School of Nursing, MUHAS	Best student in Mental Health and Psychiatric Nursing	100,000/=
6.	Prof. Outwater's Prize	Dr Anne Outwater	Best student in BSc. Nursing Research Dissertation	150,000/=
7.	Head of Clinical Nursing Department Prize	Head of Clinical Nursing Department	Best student in clinical Practice (Principles of Nursing)	100,000/=
8.	Head of Community Nursing Department	Head of Community Nursing	Best student in Community Midwifery Practice	100,000/=

	Prize	Department		
9.	Head of Nursing Management De- partment Prize	Head of Nursing Manage- ment Department	Overall Best final year student in BSc. Nursing Management	100,000/=
10.	Andrew Mroso's Memorial Award	Dr Edith Tarimo	The BSc. Nursing student with highest marks in Community Health Nursing (NC 300) and good professional conduct	100,000/=
11.	Professor Helen Lugina's Memorial Award	Professor Columba Mbekenga	The BSc. Nursing student with the highest Clinical Practice Score in Midwifery (NM 300) and good professional conduct	100,000/=
12	Mama Masuma Award	Mrs Martha Rimoy	The BSc. Nursing /Midwifery student with highest score in clinical maternal and child health practice, good professional conduct, interactive, punctual and eager to learn.	100,000/=
13	Dr Dickson Mkoka's Award	Dr Dickson A Mkoka	Best undergraduate student in Basic Critical Care and Emergence Care	100,000/=
14	Samiji and Kindunda Award	Mr Rashidi Heri	Best undergraduate student in Nutrition course	100,000/=
15	Award for Prospective Nurse Leader in Honour of Dr Thekla W. Kohi	Mr Baraka Malaki Morris	Best undergraduate final year student in courses offered by the Department of Nursing Management	100,000/=

## 11.5 SCHOOL OF PUBLIC HEALTH AND SOCIAL SCIENCES

### 11.5.1 ACADEMIC PRIZES

S/N	NAME OF PRIZE	AWARDING AUTHOR-ITY	DESCRIPTION	AMOUNT (TZS)
1.	University Prize	MUHAS	Best Student in Final degree ex- amination in each School	100,000/=
2.	Vice Chancellor's Prize	MUHAS	Student with highest marks in 1st year degree examination	100,000/=
3.	The Northern Ireland Award Center Prize	International Federation of Environmental Health (IFEH)	Best final year Student in Envi- ronmental Health Sciences	USD 100
4.	Che-Guevara Prize	Prof. A. D. Kiwara	Overall Best undergraduate Student in both DS 100 and 200 across all programmes at MUHAS	100,000/=
5.	Environmental and Occupational Health Award	Barrick Gold Tanzania	Best first year Student in Envi- ronmental Health Sciences	500,000/=
6.	Environmental and Occupational Health Award	Barrick Gold Tanzania	Second best first year Student in Environmental Health Sciences	300,000/=
7.	Environmental and Occupational Health Award	Barrick Gold Tanzania	Third best first year Student in Environmental Health Sciences	200,000/=
8.	Environmental and Occupational Health Award	Barrick Gold Tanzania	Best Second Year Student in Envi- ronmental Health Sciences	500,000/=
9.	Environmental and Occupational Health Award	Barrick Gold Tanzania	Second Best Sec- ond year Student in Environmental Health Sciences	300,000/=
10.	Environmental and Occupational Health Award	Barrick Gold Tanzania	Third Best Sec- ond year Student in Environmental Health Sciences	200,000/=
11.	Environmental and Occupational Health Award	Barrick Gold Tanzania	Best final year Student in Envi- ronmental Health Sciences	500,000/=
12.	Environmental and Occupational Health Award	Barrick Gold Tanzania	Second Best final year Student in Environmental Health Sciences	300,000/=

13.	Environmental and Occupational Health Award	Barrick Gold Tanzania	Third Best final year Student in Environmental Health Sciences	200,000/=
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## 11.6 INSTITUTE OF ALLIED HEALTH SCIENCES

### 11.6.1 ACADEMIC PRIZES

S/N	PRIZE	AWARDING AUTHORITY	DESCRIPTION	AMOUNT TZS
1.	MUHAS (ADDV) Prize	MUHAS	Best Final Year Student	100,000/=
2.	MUHAS (ADMLS) Prize	MUHAS	Best Final Year Student	100,000/=
3.	MUHAS (ADNE) Prize	MUHAS	Best Final Year Student	100,000/=
4.	MUHAS (DDR) Prize	MUHAS	Best Final Year Student	100,000/=
5.	MUHAS (DEHS) Prize	MUHAS	Best Final Year Student	100,000/=
6.	MUHAS (DMLS) Prize	MUHAS	Best Final Year Student	100,000/=
7.	MUHAS (DOT) Prize	MUHAS	Best Final Year Student	100,000/=
8.	MUHAS (DPS) Prize	MUHAS	Best Final Year Student	100,000/=
9.	MUHAS (DN) Prize	MUHAS	Best Final Year Student	100,000/=
10.	Institute Prize (ADDV)	IAHS	Best student in final group, best in discipline and in practical experience during the course notwithstanding higher class position	100,000/=



11.	Institute Prize (DMLS)	IAHS	Best student in final group, best in discipline and in practical experience during the course not withstanding higher class position	100,000/=
12.	Institute Prize (DDR)	IAHS	Best student in final group, best in discipline and in practical experience during the course not withstanding higher class position	100,000/=
13.	Institute Prize (DEHS)	IAHS	Best student in final group, best in discipline and in practical experience during the course not withstanding higher class position	100,000/=
14.	Institute Prize (DN)	IAHS	Best student in final group, best in discipline and in practical experience during the course not withstanding higher class position	100,000/=
15.	Institute Prize (DOT)	IAHS	Best student in final group, best in discipline and in practical experience during the course not withstanding higher class position	100,000/=
16.	Institute Prize (DPS)	IAHS	Best student in final group, best in discipline and in practical experience during the course not withstanding higher class position	100,000/=
17.	Institute Prize	IAHS	Best student in final group, best in discipline and in practical experience during the course not withstanding higher class position	100,000/=
18.	School Prize (ADDV)	IAHS	Best student in final group, best in Field- work/ Practicals & Professionalism	100,000/=
19.	School Prize (DMLS)	IAHS	Best in Fieldwork/Practicals/Professionalism	100,000/=

20.	School Prize (DDR)	IAHS	Best in Fieldwork/Practical/Professionals	100,000/=
21.	Dr. Flora Lwakatare Prize	Dr. Flora Lwakatare	Best student in the course of Disease Parten Recognition	100,000/=
22.	Dr. M.M. Ndukeki Prize	Dr. M.M. Ndukeki Prize	Awarded to the outstanding student in performance of the Clinical and Practical Field Work from the second year of study to the last year	100,000/=
23.	Lalison Ndolele Prize	Lalison Ndolele Prize	Awarded to the outstanding 3rd year student in performance of Management & Administration	100,000/=
24.	School Prize DEHS – DAR	IAHS	Best student in final group, best in Field- work/ Practicals and Professionalism	100,000/=
25.	DEHS - TANGA	IAHS	Best student in Field- work/ Practicals & Professionalism	100,000/=
26.	DEHS - MPWAP-WA	IAHS	Best student in final group, Fieldwork/ Practicals & Professionalism	100,000/=
27.	School Prize (DN)	IAHS	Best student in final group, Fieldwork/ Practicals and professionalism	100,000/=
28.	School Prize (DOT)	IAHS	Best student in final group, Fieldwork/ Practicals and Professionalism	100,000/=
29.	School Prize (DPS)	IAHS	Best student in final group, best in Fieldwork/ Practicals and Professionalism	100,000/=

## 11.7 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)
6.	M.Msimbe	F	Lecturer	MD(MUCHS) MMed(MUHAS)
7.	R.Oyugi	M	Lecturer	MD,MMed (MUHAS)
<b>Department of Emergency Medicine</b>				
<b>Adjunct/Honorary Lecturers</b>				
1.	J. Mfinanaga	M	Honorary Lecturer	MD, MMed (MUHAS)
2.	I. B. Kulola	F	Honorary Lecturer	MD, MMed (MUHAS)
3.	R. Tarimo	M	Honorary Lecturer	MD, MMed (MUHAS)
4.	M. M. Biita	M	Honorary Lecturer	MD, MMed (MUHAS)
5.	C. Shari	F	Honorary Lecturer	MD, MMed (MUHAS)
6.	E. Noste	F	Honorary Lecturer	MD (UC-Davis), ABEM (USA)
7.	E. Sangey	M	Honorary Lecturer	MD, MMed (MUHAS)
8.	W. Kaihula	F	Honorary Lecturer	MD, MMed (MUHAS)
9.	P. Shao	M	Honorary Lecturer	MD, MMed (MUHAS)
10.	T. A. Reynolds	F	Adjunct Professor	MD, MSc (UCSF), PhD (Columbia), FACEP (USA)
11.	M. S. Runyon	M	Adjunct Professor	MD (Florida), MPH (UNC), FACEP (USA)
12.	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>				
1.	M. Ally	F	Honorary lecturer	MD, MMed (MUHAS)
2.	L. Luzzato	M	Adjunct Professor	MD (Italy), FRCP (USA), FRC-Path (USA)
3.	B. Klecza	F	Honorary lecturer	MD (Berlin)
4.	A.H. Schuh	F	Adjunct Professor	MD, PhD (Oxford), MRCP (UK), FRCPath (UK)
5.	G. Moshi	F	Adjunct Professor	MD (Australasia),

				FRCPA (Australasia)
6.	J. Kent	F	Honorary Lecturer	BA(Oxford), MBA(Oxford) PhD (Edinburgh)
7.	M. Lyimo	F	Honorary Lecturer	MD, MMed (MUHAS), PhD (Dartmouth)
8.	E. Kimambo	F	Honorary Lecturer	MD, MMed (MUHAS)
9.	V. Tubman	F	Honorary Lecturer	MD(Pennsylvania) MMSc (Havard)
<b>Department of Internal Medicine</b>				
<b>Adjunct/Honorary Lecturers</b>				
1.	R. Mutagaywa	M	Adjunct Senior Lecturer	MD (UDSM), MMed, MSc (MUHAS)
2.	J. Rugemalila	F	Adjunct Lecturer	MD (KCMC), MMed, MSc (KCMC)
3.	J. Mngumi	M	Adjunct Lecturer	MD (MUHAS), MMed, MSc (MUHAS)
4.	H. Kimambo	F	Adjunct Lecturer	MD (MUHAS), MMed (MUHAS)
5.	W. Bernard	M	Adjunct Lecturer	MD (MUHAS), MMed (MUHAS)
6.	K. Khuzeima	M	Adjunct Lecturer	MD (MUHAS), MMed, MSc (MUHAS)
7.	M. Kilima	F	Adjunct Lecturer	MD (Algeria), MMed (MUHAS)
8.	J. Didi	F	Adjunct Lecturer	MD (MUHAS), MMed (MUHAS)
9.	J. Chin	M	Professor	MD (Yale), PhD (New Haven), MPH (Berkeley)
<b>Department of Microbiology and Immunology</b>				
<b>Adjunct/Honorary Lecturers</b>				
1.	T. Ueno M		Visiting Professor	BSc , MSc. PhD (Japan)
2.	S. E Rugarabamu	F	Honorary Lecturer	DDS, MSc (MUHAS)
3.	J. K. Kabanangi F		Honorary Lecturer	BSc (Manitoba, Canada) MSc (MUHAS)
<b>Department of Obstetrics and Gynaecology</b>				
<b>Adjunct/Honorary Lecturers</b>				
1.	S. Mohamed	F	Honorary Lecturer	MD (UDSM), MMed (MUHAS)
2.	M. M. Ngarina	F	Honorary Lecturer	MD, MMed (UDSM), PhD
	L. Mnabwiru	F	Honorary Lecturer	MD, MMed (MUHAS),
	V. Tarimo	M	Honorary Lecturer	MD, MMed (MUHAS),
<b>Department of Ophthalmology</b>				
<b>Adjunct/Honorary Lecturers</b>				
1.	A. J. Sanyiwa	F	Lecturer	MD, MMed (UDSM), MPH (MUHAS), Dip. GH (Finland)
<b>Department of Orthopaedic &amp; Trauma</b>				
<b>Adjunct/Honorary Lecturers</b>				

1.	W. O. Kiloloma	M	Lecturer	MD, MMed (MUCHS), MSc (MUHAS)
2.	A. Assey	M	Lecturer	MD, MMed (MUHAS)
3.	C. N. Mcharo	M	Senior Lecturer	MD, MMed, MSc (UDSM)
4.	N. Rutabasibwa	M	Lecturer	MD, MMed (MUHAS)
5.	J. G. Ngeregeza	M	Lecturer	MD, MMed (MUHAS)
6.	K. S. Nungu	M	Lecturer	MD (Havana), MMed, (Uppsalla)
7.	J. L. Kahamba	M	Associate Professor	MD (Romania), MMed, MSc (UDSM)
8.	L. Mchome	M	Lecturer	MD, MMed
9.	I. Mkwazi	M	Lecturer	MD, MMed (MUHAS)

#### Department of Otorhinolaryngology

##### Adjunct/Honorary Lecturers

1.	J. Kimario	M	Honorary Lecturer	MD (UDSM), MMed (KCMC)
2.	H. Swai	M	Honorary Lecturer	MD (MUHAS), MMed (MUHAS)
	W. Massawe	M	Honorary Lecturer	MD, MMed (MUHAS)

#### Department of Paediatrics and Child Health

##### Adjunct/Honorary Lecturers

1.	C. Duggan	M	Honorary Lecturer	BA (Dartmouth), MD (John Hopkins), MPH (Harvard)
2.	C. R. J. C. Newton	M	Honorary Lecturer	MB ChB, MD (Cape Town), MRCP, FRCPCH (London)
3.	S. Lindemulder	F	Honorary Lecturer	BS (Clavi-USA), MCLin Res (Oregon), MD (NU, USA)
4.	M. N. Noorani	F	Honorary Lecturer	M.B ChB (Nairobi), MMed (MUHAS)
5.	G. F. Mallya	M	Honorary Lecturer	MD (KCM College), MMed (MUHAS)
6.	E. Mgelea	M	Honorary Lecturer	MD, MMed (MUHAS)
7.	Z. A. Helga	F	Honorary Lecturer	MD (Germany), MMED (Doctor's Chamber Lower Saxony), MSc. International Health (Germany).
8.	E. S. Majaliwa	F	Honorary Lecturer	MD, MMED
9.	M. F. Mkony	F	Honorary Lecturer	MD, MMED,
10.	S. J. Swanson	M	Honorary Professor	BS (Child Psychology), MD (HARVARD)
11.	Haika K. Mariki	F	Honorary Lecturer	MD, MMED
12.	N. G. Majani	F	Honorary Lecturer	MD. MMED (WBUCHS), FCP

				(ISRAEL)
13.	T. J. Masenge	F	Honorary Lecturer	MD, MMED GastroHep & Nutrition (Stellenbosch, SA)
14.	M. Ali	M	Honorary Lecturer	MD, MPhil, BHSc Epidemiology (Boston)
15.	A. T. Mtoro	M	Honorary Lecturer	MD, MMED
16.	N. P. Mkopi	M	Honorary Lecturer	MD, MMED (MUHAS)
17.	R. D. Moshiro	M	Honorary Lecturer	MD, MMED, PhD
18.	Y. A. Aljaidi	M	Honorary Lecturer	MD, MMED
20.	R. K. Damji	M	Honorary Lecturer	MD, MMED
21.	A. A. Shoo	F	Honorary Lecturer	MD, MMED
22.	F. M. Mussa	F	Honorary Lecturer	MD, MMED
23.	E. K. Godfrey	M	Honorary Lecturer	MD, MMED (MUHAS)
24.	M. Appollo	F	Honorary Lecturer	MD, MMED
25.	Z. Edward	F	Honorary Lecturer	MD, MMED
26.	P. Kazahura	F	Honorary Lecturer	MD, MMED
27.	V. Ndembo	F	Honorary Lecturer	MD, MMED
<b>Department of Psychiatry and Mental Health</b>				
1.	J. Mbwapo	F	Honorary Lecturer	MD (UDSM), Dip. Psych (Manchester)
2.	F. Masao	M	Honorary Lecturer	MD (UDSM), MMed (MUHAS)
3.	L. Kajula	F	Honorary Lecturer	BA (Hons) (India), MPhil (Norway), PhD (Maastricht)
4.	S. Kuganda	M	Honorary Lecturer	MD (UDSM), MMed (Makerere)
5.	P. Kaduri	F	Honorary Lecturer	MD (UDSM), MMed (MUHAS), MSc CH (Toronto)
6.	S. C. Yohani	F	Honorary Lecturer	BA, Med (Cous. Psych), PhD
7.	P. Luzatto	F	Honorary Lecturer	Laurea in Phil (Italy), M.A. Edu (NY), PhD (Nigeria), Dip. Art Therapy (UK)
8.	F. C. Ngakongwa	F	Honorary Lecturer	MD (UDSM), MMed (Stellenbosch), FC Psych (SA)
9.	F L. Benedict	M	Honorary Lecturer	MD (MUHAS), MMed (MUHAS)
10.	L. R. Mgopa	F	Honorary Lecturer	MD (MUHAS), MMed (MUHAS)
11.	E. E. Mdeme	M	Honorary Lecturer	MD (UDSM), MMed

				(MUHAS)
12.	I. Mwombeki	M	Honorary Lecturer	MD (MUHAS), MMed (MUHAS)
13.	G. P. Simbee	F	Honorary Lecturer	MD (MUHAS), MMed (MUHAS)
14.	O. Ubuguyu	M	Honorary Lecturer	MD (UDSM), MMed (MUHAS)
15.	J. P. Swai	M	Honorary Lecturer	Dip. Clin Med (Hai), BA Counselling (Iringa), MSc.CP (MUHAS)
16.	J. Raymond	F	Honorary Lecturer	MD (MUHAS), MMed (MUHAS)
17.	I. Haruna	M	Honorary Lecturer	MD (UDSM), MMed (MUHAS)
<b>Department of Radiology and Imaging</b>				
<b>Adjunct/Honorary Lecturers</b>				
1.	R. Iramu		Honorary Lecturer	MD, MMed (MUHAS)
2.	F. Minja		Honorary Lecturer	MD, Neuroradiology Fellow
3.	F. Lyimo		Honorary Lecturer	MD/MMed (MUHAS)
4.	H. Makungu		Honorary Lecturer	MD, MMed (MUHAS)
5.	M. Mango		Honorary Lecturer	MD(UDSM), MMed (Nairobi)
6.	I. Mhalu		Honorary Lecturer	MD, MMed(MUHAS)
<b>Department of Surgery</b>				
<b>Adjunct/Honorary Lecturers</b>				
1.	R. Nyamsogoro	M	Honorary Lecturer	MD, MMed
2.	E. Wayi	M	Honorary Lecturer	MD, MMed, Fellowship in Plastic Surgery
3.	J. Rwanyuma	M	Honorary Lecturer	MD, MMed, Fellowship in Plastic Surgery
4.	G. Mchele	M	Honorary Lecturer	MD, MMed, MSc
5.	K. Kitembo	M	Honorary Lecturer	MD, MMed, MSc
6.	Y. Ringo	M	Honorary Lecturer	MD, MMed, MSc
7.	J. Giraf	F	Honorary Lecturer	MD, MMed
8.	G. Mtaturu	M	Honorary Lecturer	MD, MMed, MSc
9.	N. Kimu	M	Honorary Lecturer	MD, MMed, MSc
10.	V. Sensa	M	Honorary Lecturer	MD, MMed
11.	S. Kaali	M	Honorary Lecturer	MD, MMed, MSc
12.	P. Ngiloi	F	Honorary Lecturer	MD, MMed, Fellowship in Plastic Surgery
13.	M. Makia	F	Honorary Lecturer	MD, MMed
14.	D. Mahenda	M	Honorary Lecturer	MD, MMed
15.	M. Sultan	M	Honorary Lecturer	MD, MMed
16.	A. Swallow	M	Honorary Lecturer	MD, MMed
17.	A. M. Kategile	M	Honorary Lecturer	MD (USSR), MMed (UDSM) MSc (Tumaini)
18.	E. Mkongo	M	Honorary Lecturer	MD, MMed, MSc
<b>SCHOOL OF MEDICINE</b>				

Part-Time Lecturer				
1.	K. Pallangyo	M	Professor Emeritus	MD, MMed (UDSM), Cert. Clin. Micro/Immuno. (Nagasaki)
2.	F. Mugusi	M	Professor	MD, MMed (UDSM)
	S. N. A. Massawe	F	Associate Professor	MD, MMed (UDSM), Med (Manchester), PhD (Uppsala)
3.	C. D. S. Kilewo	M	Associate Professor	MD (Romania), MMed (UDSM), PhD (Karolinska)
4.	J. N. Kitinya	M	Professor	MBChB (Makerere), MMed (UDSM), Cert. Microscopy, DMed Sci (Kyushu), FCPATH (ECSA)
5.	R. I. Mhina	M	Senior Lecturer	MD, MMed, MSc (UDSM)
6.	H. N. Mgya	M	Professor	MB ChB (EA), MMed (UDSM)
7.	N. H. Moshi	M	Professor	MD, MMed, MSc (UDSM)
8.	W. B. P. Matuja	M	Professor	MB ChB (Makerere), MRC (Psych) (UK)
9.	T. K. Kazimoto	F	Senior Lecturer	MD, MMed (UDSM)
10.	E. M. Munubhi	M	Senior Lecturer	MD, MMed (UDSM)
11.	A. W. Massawe	M	Senior Lecturer	MD, MMed (UDSM)
12.	E. F. Lyamuya	M	Professor	MD, MMed (UDSM), PhD (Karolinska)
13.	E. E. Maro	M	Associate Professor	MD, MMed (UDSM)
14.	C. M. A. Yongolo	M	Associate Professor	MD, MMed (UDSM), MSc (Tumaini)
15.	M. M. Aboud	M	Associate Professor	MD, MMed (UDSM), MMed Res. (Brussels), MSc (Tumaini)
16.	C. A. Mkony	M	Professor	MD, MMed, (UDSM)
17.	F. W. Mbangi	M	Senior Lecturer	MD, MMed (UDSM)
18.	N. S. Mosenene	F	Lecturer	MD (Havana), MMed (MUHAS)

## 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 (Nizhny Novgorod, 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 (Archives of Central South University, CHINA).
9.	T. S. Majuta	F	Clinical Nursing	Diploma in Nursing Mpilo Central Hospital school of Nursing, Zimbabwe), BSc, (Texila American University, Guyana), MSN( University of Central Nicuaraga)
10.	E. L. Kalinga	M	Clinical Nursing	Diploma in Nursing, (MUHAS), BScN (Aga Khan University), MSc. Critical Care and Trauma (MUHAS)
11.	E. T. Mwakanyaga	F	Clinical Nursing	Diploma in Nursing, (Nkinga Nursing School), Advanced Diploma in Nursing Education (Muhimbili School of Nurse Teachers), BScN (Aga Khan University), MSc. Critical Care and Trauma (MUHAS)
12.	D. G. Magawa	F	Clinical Nursing	Diploma in Nursing, (Bugando, School of Nursing), BScN (Aga Khan University), MSc. Critical Care and Trauma (MUHAS)
13.	H. D. Mdangu	F	Clinical Nursing	Diploma in Nursing, (MUHAS), BSc.N, (MUHAS), MSc. Critical Care and Trauma (MUHAS)
14.	S. M. M. Nzilibili	M	Clinical Nursing	BSc N (UDOM), Masters of Forensic Science (INDONESIA)
15.	P. R. Daplyn	M	Clinical Nursing	BSc in Mental Health (De Montford University), Post Graduate Diploma in

				Mental Health (Notre Dame University), Masters in Mental Health (Notre Dame University)
16.	D. S. Nielsen	M	Clinical Nursing	BScN (Odense University), MHS (University of Southern Denmark), PhD (University of Southern Denmark)

## SCHOOL OF PHARMACY

### Part-time Lecturers

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)

### Adjunct/Honorary Lecturers

1.	D.C. Buma	M	Pharmaceutics	BPharm (UDSM), MPharm (MUHAS)
2.	A. B. Mtenga	F	Pharmaceutics	BPharm (Chennai), MSc Med Micr (London), PhD (GNU S. Korea).
3.	D. H. Shewiyo	M	Pharmaceutics	BPharm (UDSM), MPharm Sci (Ghent), PhD (Brussels)
4.	A. Nkayamba	M	Clinical Pharmacy and Pharmacology	MD MUHAS. MSc Public Health (MUHAS)
5.	J. Lixia	M	Clinical Pharmacy and Pharmacology	MD (WMU), PhD (PUMC)
6.	A. Mususa	F	Clinical Pharmacy and Pharmacology	BPharm (UDSM), MSc Public Health (MUHAS)
7.	O. Mpanju	M	Pharmaceutics	BPharm (UDSM), PhD (Brussels)

## SCHOOL OF PUBLIC HEALTH AND SOCIAL SCIENCES

### Part-time Lecturers

1.	J. Z. J. Killewo	M	Professor Emeritus	MB ChB (EA), DPH (UDSM), MSc (London), PhD (Umea)
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2.	M. T. Leshabari	M	Professor and Research Chair	BSc, MA (UDSM), Dr. Sc. (John Hopkins)
3.	A. V. F. Ngowi	F	Senior Lecturer	BSc (UDSM), MSc (OHS) (UK), PhD (Tampere Finland)
4.	M. A. Mwangu	M	Senior Lecturer	BA (Ed.), MA, PhD (UDSM)

#### Adjunct/honorary/Visiting staff

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.	J. R. Mwanga	M	Honorary Lecturer	BA (UDSM), MSc (London), PhD (Denmark)
6.	R. Kishimba	M	Honorary Lecturer	MD (MUHAS), MSc (MUHAS)
7.	B. Emidi	F	Honorary Lecturer	BSc (KCMUCo), MSc (UDSM), PhD (UDSM)
8.	V. Nyasembe	M	Honorary Lecturer	BSc (Egerton), PhD (Pretoria)
9.	R. D. R. Dinglasan	M	Honorary Lecturer	BA (Virginia), MPH (Yale), MPhil (Yale), PhD (Maryland)
10.	C. Mweya	M	Honorary Lecturer	BSc (UDSM), MSc (KCMUCo), PhD (SUA)
11.	S. Khamadi	M	Honorary Lecturer	BSc (JKU), MSc (Nairobi), MPH (Liverpool), MBA (Cumbria), PhD (Jomo Kenyatta)
12.	S. Kinunghi	M	Honorary Lecturer	BVM (SUA), MSc (Free University of Berlin/Addis Ababa), PhD (Copenhagen)
13.	H. Mazigo	M	Honorary Lecturer	BVM (SUA), MSc (Jomo Kenyatta), MPH (CUHAS), PhD (Makerere/Cambridge)
14.	L. B. Mlunde	F	Honorary Lecturer	MD (MUHAS), MSc, PhD (Tokyo)

15.	M. A. Mohamed	M	Honorary Lecturer	MD, MPH (UDSM), MSc (JKUAT)
16.	B. Tita	F.	Honorary Lecturer	BSc (SUA), MSc (MUHAS)
17.	J. Kijumbe	M	Honorary Lecturer	BSc, MSc (OUT)
18.	B. Kamala	M	Honorary Lecturer	MD (MUHAS), MSc (Karolisa), PhD (Stranger)
19.	I. Semali	M	Honorary Lecturer	MD, DPH (UDSM), MSc (London), PhD (Basel)
20.	A. Sabasaba	M	Honorary Lecturer	MD (MUHAS), MSc (KCMUCo)
21.	A. Hussein	M	Honorary Lecturer	MD (MUHAS), MSc AE (MUHAS)
22.	G. J. Mchau	M	Honorary Lecturer	BSc( UDSM), MSc AE (MUHAS) PhD (NM - AIST)
23.	C. Ulrich	M	Honorary Professor	MSN RN FAAN (University of Mainland Baltimore, Catholic University of America- Washington DC.
24.	D. Bishanga	M	Honorary Lecturer	MD (UDSM) MUCHS, MSc Informatic with Public Health (UDSM), PhD Gronigen University
25.	P. E. Mangesho	M	Honorary Lecturer	BA (UDSM), MA (UDSM), DRM (Denmark), PhD (Cape Town)
26.	M. Kafuye	F	Microbiologist/ Bioethics	BSc. (Bangalore), MSc. Mysore, India), MSc, (Kwa Zulu Natal), PhD (Jahaharlal Nehru)

### Visiting Lecturers

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 (Pittsburgh)
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).

### INSTITUTE OF TRADITIONAL MEDICINE

#### Part-time Researchers

1.	R. Mahunnah	M	Associate Research Professor	Dipl. Ed, BSc, MSc, PhD (UDSM)
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2.	E. J. Kayombo	M	Research Fellow	Dipl. Ed, BEd, MA (UDSM), PhD (Vienna)
3.	M. J. Moshi	M	Associate Research Professor	B. Pharm (UDSM), PhD (Strathclyde, Glasgow)