KILIMANJARO CHRISTIAN MEDICAL UNIVERSITY COLLEGE

(A Constituent College of Tumaini University Makumira)

PROSPECTUS

2023 - 2024

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STATEMENT FROM THE PROVOST

The 2023-24 prospectus is intended to provide information to any party interested in the Kilimanjaro Christian Medical University College (KCMU College) Programmes of study. The prospectus provides a synopsis of diverse academic programmes for Health and Allied Sciences offered by the different academic units of the University College as well as key information that is intended to guide prospective and registered students of KCMUCo. 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.

The prospectus does not constitute a contract of any kind between the University College and the interested party. It was compiled based on available information at the time of its preparation and is therefore, subject to change at any time without notice or obligation from time to time before and after the candidate's admission. In case of ambiguity in the interpretation of the information given in this prospectus, the interpretation of the Academic Committee of KCMU College after consultation with the Tumaini University Senate shall be final.

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

Prof. E. E. Kaaya
Provost
Kilimanjaro Christian Medical University College

Table of Contents

1.0 INTRODUCTION

1.1 Welcome Address from the Provost

Being a Christ-Centered Institution, the College community aspires to nurture education in an environment of love, mercy compassion and faithfulness. Students are allowed to learn interactively without discrimination and enabled to create an environment conducive for successful completion of the awards they registered for.

As part and parcel of the KCMU-College Community, you have an intrinsic role of contributing the best you can, in creating a comfortable home to dwell by harmoniously studying and cooperating with other students and staff within the framework stipulated by rules, regulations and Students By-Laws. Your courses may be long and tedious. Therefore, you are advised to study diligently to gain adequate knowledge, skills, and attitudes, which will enable you to contribute towards social-economic development of the nation. Therefore, you are urged to be conversant with the health care delivery of curative, preventive, promotive and rehabilitative services to the communities which you will serve.

You are warmly welcome to KCMU-College to build your carriers in an Institution which is guided by Quality and Excellency.

Ephata E. Kaaya (MD, MSc, FCP-ECSA, FCPath (H) - SA, PhD)
PROVOST
KILIMANJARO CHRISTIAN MEDICAL UNIVERSITY COLLEGE

1.2 Principal Officers of TUMA

Chancellor
Rt. Rev. Bishop Dr. Frederic O. Shoo

Chairperson
Prof. Esther Mwaikambo,

Vice Chancellor
Prof. Joseph Parsalaw,

1.3 KCMUCo Governing Board

The KCMU-College Governing Board is the supreme policy making organ of the College. The Board members are: -

SN	NAME	POSITION
1.	Hon. Bishop Dr. Fredrick O. Shoo	Chairman
2.	Prof. Ephata E. Kaaya	Provost and Secretary of the Board
3.	Eng. Robert Kitundu	The Secretary General – ELCT
4.	Dr. Gaspar Mpehongwa	Representative of TUMa Colleges - Member
5.	Prof. Mainen Moshi	Representative of Public Medical University Institutions – Member.
6.	Mr. Abdul-Razak Badru	Representative of HESLB – Member.
7.	Mr. Sakanda Gaima	Representative of MoEST – Member.
8.	Dr. Saitore Laizer Representative	Representative of MoHCDGEC – Member.
9.	Prof. Gileard Masenga	EDR, KCMC - Member
10.	Dr. Sarah Urassa	DHS, KCMC - Member
11.	Dr. Elichilia Shao	Chairperson KCMUCo CASA - Member

12.	Mr. Evodius Rutamigwa	President, KCMUCo TUMaSO – Member
13.	Prof. Alfred K. Mteta	DPAA (ex-officio).
14.	Prof. Declare L. Mushi	DPA (ex-officio)
15	Ms. Gilda Mtaita	Ag. Bursar (ex-officio).
16.	Adv. Aniceth Boyi	Legal Counsel (Member)

1.4 Principal Officers of KCMUCo

Provost
Prof. Ephata E. Kaaya, MD (UDSM), MSc Path (UDSM), PhD Path (Karolinska), FCP (ECSA), FCPath (SA)

Deputy Provost for Academic Affairs
Prof. Kien Mteta MD, MMed (UDSM) MSc. Urology (TU) FCS (ECSA)

Deputy Provost Administration
Prof. Declare L. Mushi, BA (UDSM), MA (UDSM), PhD (Heidelberg).

Dean, Faculty of Medicine
Prof. Levina Msuya MD, MMed, (TU),

Dean, Faculty of Nursing
Dr. Jane Rogathi, Diploma (KCMC) BSc (TU), MPH, PhD (TUMa).

Dean, Faculty of Rehabilitation Medicine
Prof. Jaffu Chilongola BVM, MVM, PhD (SUA)

Director of Quality Assurance
Dr. Titus Msoka MD (TU) MSc (TU) PhD (NL)

Director of Postgraduates Studies:
Prof. Grace Kinabo (MD, MMed, PhD).

Director of Research and Consultancy
Prof. Blandina Mmbaga (MD, MMed, PhD),

Deputy Director, Research and Consultancy
Prof. Reginald Kavishe (BSc, MSc, PhD)

Director Institute of Public Health
Dr. Florida J. Muro MD (TUMa), PGDip, MSc (LSHTM) PhD (TUMa)

Director of Continuing Professional Development (DCPD)
Dr. Deborah Kajeguka, BSc (UDSM), MSc, PhD (TUMA)

Director of Library Services (DLS)
Dr. Rhodes Mwageni BA, MA (UDSM) PhD (Kwa Zulu Natal)

Dean of Students
Rev. Anza Lema, BD (TUMa), MACD (UDOM)

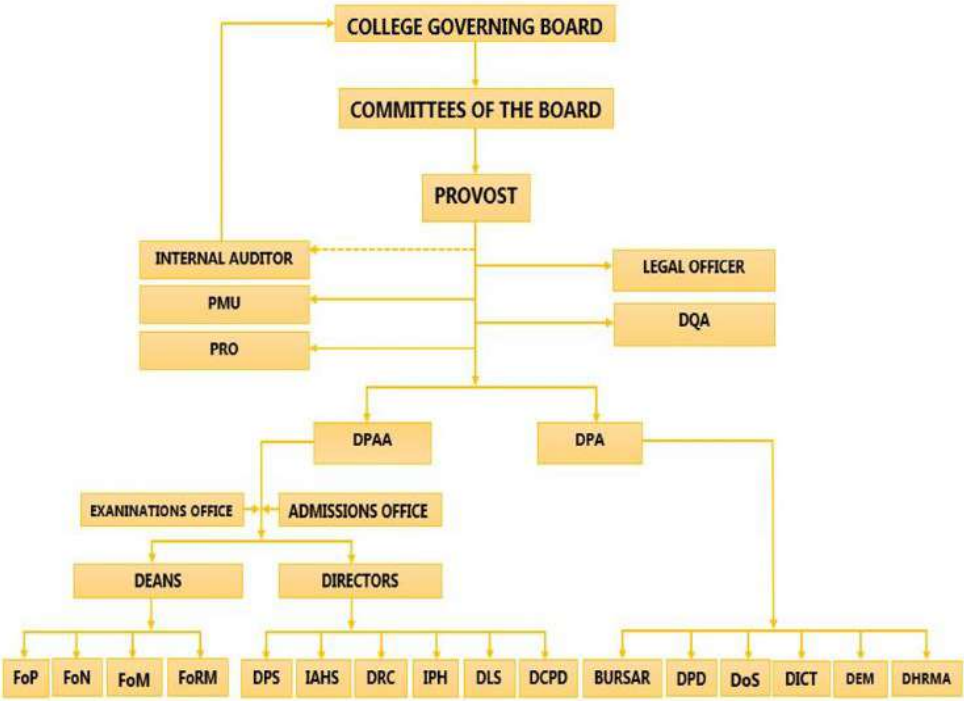
Associate Dean of Student
Ms. Christina Mtuya, BA (UDSM), MPH (TUMA)

Bursar
CPA Gilda J. Mtaita, BA-AF (IAA), MBA-Finance (MWECAU), (CPA) (T)

Legal Counsel
Adv. Aniceth Gaitan Boyi LL. B (MZUMBE), LL.M - Int. Law (MZUMBE)

Public Relation Officer
Ms. Jessica J. Msemo, BMass Com & PR (TUMA)

1.5 KCMUCo Organogram



KEY:

DFM	- Dean Faculty of Medicine
DFRM	- Dean Faculty of Rehabilitation Medicine
DFN	- Dean Faculty of Nursing
DPS	- Director Postgraduate Studies
DRC	- Director Research and Consultancies
DIPH	- Director Institute of Public Health
DoS	- Dean of Students

1.6 The History, Vision, and Mission of the University College

The Kilimanjaro Christian Medical University College (KCMUCo) is situated 4 kilometers north of Moshi Municipality on the slopes of Mount Kilimanjaro, Tanzania.

1.6.1 History

In the early 1960's the government of the then Tanganyika called upon the Christian Churches in the country to establish a referral and teaching hospital for the Northern Zone, to complement the efforts of the of providing health services to the young Nation. Therefore, the leadership of the Lutheran Church, Anglican and Moravian Churches in Tanganyika established the Good Samaritan Foundation (GSF), which planned and raised money from both local and overseas partners to build and equip the Kilimanjaro Christian Medical Centre (KCMC) for service, teaching, and research. The KCMC was opened in March 1971 after completion of phase one of the hospital buildings. After completion and inauguration of the new Referral and Consultant Hospital, it was immediately taken over by the Tanzania Government. KCMC was, however, handed back to the GSF in August 1992. The changes in Government policy to liberalize the economy and provision of social services rekindled the desire for higher education within the circles of the Evangelical Lutheran Church in Tanzania (ELCT). In 1993 the Executive Council of the ELCT decided to establish a Lutheran University, *"Tumaini University,"* comprising, among others, The Kilimanjaro Christian Medical College.

The Medical College became operational on 1st October 1997 under the name of ***"Kilimanjaro Christian Medical College KCM College"*** under the ownership of GSF as the founder. At that time KCM College started with the Faculty of Medicine but soon afterwards expanded to incorporate more faculties, an institute and directorates as shown below: -.

(i) Faculty of Medicine
(ii) Faculty of Nursing

(iii) Faculty of Rehabilitation Medicine
(iv) Directorate of Postgraduate Studies
(v) Directorate of Research and Consultancies.
(vi) Institute of Public Health

The College adopted the new name of Kilimanjaro Christian Medical University College (KCMU College) in 2010 after a grant of Charter pursuant to the provisions of the Universities Act no. 7 of 2005 and Universities (Chartering, Registration and Accreditation Procedures) Regulations of 2006, G.N No. 39 of 21st April 2006, the latter repealed and replaced by the Universities General Regulations, Government Notice No.226 published on 19th July 2013.

1.6.2 Vision Statement

The vision of the Kilimanjaro Christian Medical University College is: *"A transformative Christian centre of excellence providing evidence-based training in health with a sustainable resource base".*

1.6.3 Mission Statement

The mission of the College is: *"To provide an enabling environment for innovative and quality teaching, research and services responsive to national and global needs".*

1.6.4 Core Values

Love, Mercy, Compassion, Integrity, Transparency, Diversity, Creativity, Innovation, Excellence and Accountability

1.7 University College Programmes

1.7.1 Diploma Programmes (Under NACTVET)

Diploma in Medical Laboratory Sciences (Dipl in MLSc).

1.7.2 Undergraduate Programmes

(i) Bachelor of Science in Prosthetics and Orthotics (BSc. Prosth Orth).
(ii) Bachelor of Science in Physiotherapy (BSc Physiot).
(iii) Bachelor of Science in Nursing (BSc N).
(iv) Bachelor of Science in Health Laboratory Sciences (BSc HLSc).
(v) Bachelor of Science in Optometry (BSc Optom).
(vi) Doctor of Medicine (MD)

1.7.3 Postgraduate Programmes

(i) Master of Public Health (MPH)
(ii) Master of Science (MSc)
(a) MSc in Clinical Research
(b) MSc in Epidemiology and Applied Biostatistics
(c) MSc in Medical Microbiology, Immunology with Molecular Biology.
(d) MSc in Medical Parasitology and Entomology.
(e) MSc in Urology.
(f) MSc in Midwifery.
(g) MSc in Anatomy and Neuroscience

(iii) Master of Medicine (MMed)
(a) MMed in Dermato-Venereology
(b) MMed in Diagnostic Radiology and Medical Imaging
(c) MMed in General Surgery
(d) MMed in Internal Medicine
(e) MMed in Obstetrics and Gynecology
(f) MMed in Ophthalmology.

(g) MMed in Orthopedics Surgery & Traumatology
(h) MMed in Pediatrics and Child Health
(i) MMed in Pathology
(j) MMed in Urology
(k) MMed in Otorynolaryngology (ENT)
(l) MMed in Anesthesia and Critical Care

1.7.4 Doctor of Philosophy (PhD)

(i) PhD in Public Health
(ii) PhD in Biomedical Sciences.
(iii) PhD in Clinical Sciences.

2.0 GENERAL ADMISSION REGULATIONS

2.1 General Information

Inquiries about admission into all programmes under the College shall be addressed to: -

The Admissions Officer,
Kilimanjaro Christian Medical University College,
P.O. Box 2240, Moshi, Tanzania.
Tel: +255 (027) 2753616
Fax: +255 (027) 2751351
E-mail: admission@kcmuco.ac.tz
Website: www.kcmuco.ac.tz

2.2 Admission and Registration Regulations

(i) A candidate shall be admitted to KCMU-College on the understanding that in accepting the admission he/she commits him/herself to adhere to its Charter and Rules, Regulations, Policies, Procedures and By-laws. KCMU College is an institution of higher learning and expects students' behavior on and off campus to be morally sound, ethical, and legal. The College reserves the right to withdraw admission for conduct that is contrary to its objectives.

(ii) *Undergraduate admission process*: All applications shall be made through KCMU College admission portal, and all required information related to a specific admission cycle will be posted at the website <www.tcu.tz.ac>.

(iii) *Postgraduate admission process*: Postgraduate programme applications shall start in February of each year. Application instructions can be obtained from KCMUCo website: <www.kcmuco.ac.tz>. Completed applications and all necessary supporting documents shall be submitted to the admissions office before the end of July of the year for which admission is being

sought. Applications with relevant attachments, as listed below, shall be addressed to the address above: -

(a) A copy of financial receipt in respect of application fees paid.
(b) Completed application forms with notarized copies of the original certificates and transcripts.
(c) Completed medical examination forms.

The academic year begins in the month of October each year (unless otherwise stated). This is preceded by the orientation week for first year students.

(iv) Registration

(a) All students (including on-going students) shall register with the Admissions Office during the first two weeks (14 days) of every semester or on return from vacation.
(b) Students will only be registered upon payment of prescribed fees whose amount shall be determined from time to time.
(c) Fees are payable in full at the beginning of the academic year or in two equal installments at the beginning of each semester.
(d) Fresh students must register themselves within two weeks from the first day of the orientation week. Under no circumstances shall students be registered after the elapse of the fourteen (14) days.
(e) Continuing students must complete all registration formalities within two weeks of the beginning of the semester.
(f) No student shall be allowed to *register, attend classes, or sit for examinations at the college unless the required documents and fees have been submitted to the admission office*. Any student attempting to attend classes or access any other College facility without payment of the relevant fees is subject to expulsion.

(g) Late registration will attract a penalty of **TZS 100,000/=** for nationals **USD 100**: - for foreign students.

(h) No student arriving two (2) weeks (14 days) after the academic year has started will be allowed to register.

(i) Students who fail to register on time within the two weeks *(sections (d) and (h)),* if at all they still want to pursue studies at KCMUCo, shall have to re-apply for admission during the next year, but this depends on their eligibility, during that application cycle.

(j) No students shall be allowed to postpone or freeze studies after the academic year has begun except under special circumstances. *Permission to postpone/freeze studies shall be considered after producing satisfactory evidence of the reasons for postponement*. Special circumstances shall include ill health and serious social problems. At any case a student wishing to postpone or freeze studies must follow prescribed procedures by applying to do so from the **Chairman of the College Academic Committee**, through the Head of Department, the Dean of the Relevant Faculty, and (for Postgraduates, Director of Postgraduate studies), and DPAA. Students shall only be allowed to postpone or freeze studies after **the Academic Committee has approved the request.** The request to postpone or freeze studies shall be done well in advance, at least eight (8) weeks before any planned examination, unless there are urgent extenuating circumstances.

(k) No student shall be allowed to postpone studies during the two weeks preceding final examination but may be considered for postponement of examination.

(l) For students who have been selected and registered, postponement may be allowed for a

period of one year only. In such cases however, placement in the following years is not guaranteed and may depend on availability of vacancies. When postponement has been approved, the student needs to write to the college to confirm interest to join the relevant programme the following year. This confirmation should be done at least six (6) months prior to the beginning of the respective academic year. Beyond this time, the student will be required to reapply for admission afresh.

(m) Students may be allowed to freeze studies and be away for a maximum of two years, in case of undergraduate studies and one year in case of postgraduate studies. If they are to be allowed, they will be re-admitted to the same year of studies where they froze studies. No student shall freeze studies without following proper procedures and approval by the Senate through the College Academic Committee.

(v) Student identification card

(a) Students shall be issued identification (ID) cards, which they should always wear within the campus.

(b) The ID card is not transferable, and any fraudulent use may result in loss of student privileges or suspension.

(c) Loss of the ID card shall be reported to the office of Dean of Students where a new one shall be replaced upon payment of **TZS 10,000/=** (Ten thousand Tanzanian Shillings only).

(vii) Academic integrity

(a) The academic community of the University College believes that one of the goals of an Institution of higher education is to enhance the academic integrity and responsibility among its members.

(b) To this end, the University College emphasizes the importance of sound judgment and personal sense of responsibility and professionalism in each

student. All members of the academic community are expected to respect the highest standards of academic integrity.

(c) Academic dishonesty is a serious offence at KCMU College because it undermines the bonds of trust and personal responsibility between and among students and faculty, weakens the credibility of the academic enterprise, and defrauds those who believe in the value of integrity of the degree or diploma.

(d) A student who commits an act of academic dishonesty shall face disciplinary action as prescribed in the students By-Laws, other Regulations and in this Prospectus.

(d) All admission officers and ICT staff shall take an oath of their offices and duties related to admission of students on appointment/employment and at the beginning of every academic year. The format of the oath shall be prescribed in the admissions policy/Handbook as an annex.

(e) After taking the oath, (Section (d) above) which shall be administered by a neutral attorney, the admissions or ICT officer, the attorney and Wittiness (es) shall sign the oath as appropriate, and each officer shall keep one copy. The other copy of the Oath shall be kept in a safe under the custody of the College Lawyer. The College lawyer shall be responsible for implementation of calendar for oaths in the College.

2.3 Admission Requirements

General - All courses in the programmes are taught in English. Therefore, it is imperative that students are proficient in reading, writing, and speaking English.

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 admission as follows: -

(a) The National Examination Council of Tanzania in respect of Certificates of Secondary Education;
(b) The National Council for Technical Education in respect to NTA level 6 qualification, and;
(c) The Tanzania Commission for Universities for Degrees.

2.4 Transfer from one Programme to another

Students who are recommended to repeat the first year of study may, subject to the approval of the College Academic Committee and the Senate be allowed to transfer to a programme of their choice provided they meet the entry requirements of the programme.

2.5 Transfer Students from another University

Both undergraduate and postgraduate students transferring from another University, which has a similar a similar programme to that of KCMUCo shall be considered to take corresponding courses as per Tanzania Commission for Universities (TCU) guidelines of transferring students, based on Credits Accumulation and Transfer System (CATS). The transfer shall be guided by the following regulations: -

(a) KCMUCo shall accept credits transfer into its programmes through CATS from students registered in accredited universities and in programmes recognized by the commission or any other national, regional, or international accrediting body recognized by the commission.
(b) Before accepting the transfer of student through the CATS, KCMUCo shall has to make sure the modules courses completed at the other University's

programme are equivalent or relevant to the modules and courses in the programme that the student intends to transfer into at KCMUCo and approve such equivalency of modules and courses in the programme.

(c) Students shall be allowed to transfer credits to KCMUCo only during the time they are doing biomedical sciences and shall not be allowed to transfer once they start the practical or clinical training in all programmes.

(d) Not withstanding Regulation (iii) above, a student who intends to transfer credits to KCMUCo and to graduate at the College, shall need to earn at least 50% of the total credits in CORE course(s) of a particular programme.

(e) In any case accumulated credits shall not be transferred within a time exceeding five years from the date they were earned.

(f) Before a student is transferred to KCMUCo he/she shall clear all supplementary examination at the transferring University, but the Academic Committee may allow that the student transfer carry overs after assessing the comparability of the modules/courses and their coverage. Transferred students shall earn credits at KCMUCo only from successfully completed subjects, modules, or courses in the programme.

(g) KCMUCo shall include the number of credits and grades earned for a course in calculating Grade Point Average (GPA) and Cumulative Grade point average (CGPA) of the student transferred from another University.

(h) KCMUCO shall not allow a student discontinued on academic grounds to transfer credits or Register as a new student in the failed programme at KCMUCo. A student wishing to continue with university education in the same KCMUCo programme shall wait for a lapse of two (2) years after discontinuation

but shall not be allowed to transfer any credits earned prior to discontinuation. This regulation applies for both undergraduate and postgraduate programmes.

(i) A student of KCMUCo who was discontinued on academic or examination irregularities, shall not be allowed to transfer credits but one wishing to continue with university education in a different programme or another institution in a different programme can do so if he/she registers in the next study cycle. This regulation applies for both undergraduate and postgraduate programmes.

(j) In the transfer of students, transferring student shall observe the following: -

  (i) A student wishing to transfer credits to KCMUCo shall identify the programme she/he wants to transfer into at KCMUCo, and any rules and expectations which KCMUCo may have on transfer matters;

  (ii) The transferring student shall understand and accept the terms and conditions regarding the programme;

  (iii) The student shall initiate the process in accordance with students transfer regulations of the transferring university and those of KCMUCo;

  (iv) The student shall confirm his/her acceptance of the terms and conditions set out by KCMUCo regarding CATS;

  (v) The transferring student shall notify his/her sponsor about the transfer arrangements through the office of DPAA at KCMUCo.

(k) In the transfer of students, KCMUCo shall observe the following: -

  (i) KCMUCo shall satisfy herself that the student seeking transfer has met the conditions for transfer;

(ii) The college shall ensure that all transfer arrangements made by then releasing University are acceptable;

(iii) The College shall counsel the student on compliance requirements for mismatch between its programme and that of the transferring University;

(iv) The College shall promptly notify the Commission after completion of transfer arrangement and receiving the student as well as report to HESLB and other relevant authority that is a stakeholder of the transferred student;

(v) Once the transfer arrangements are completed KCMUCo shall submit the student's credit transfer request letter to the Commission;

(vi) The College shall submit to the Commission all copies of academic certificates and provisional results/academic transcript from the releasing University;

(vii) The College shall submit to the Commission the credits comparison matrix showing the courses and credits earned from the releasing University and the year of study against those of the receiving University and the student's details including full name, gender, 'O' and 'A' Level Index numbers, nationality, and nature of disability (where applicable);

(viii) The College shall communicate the transfer to the Commission prior to registration to allow the Commission to evaluate the student's eligibility to the programme he/she wishes to transfer to avoid any inconvenience;

(ix) The College may issue waivers in some prerequisite courses upon assurance that courses taken by a student at the releasing University had significant similarities in content

or objectives and learning outcomes with all or some of the courses offered at KCMUCo.

2.6 Entry Requirements for Diploma Programmes.

2.6.1 Diploma in Health Laboratory Sciences (NACTVET)

Ordinary Diploma in Health Laboratory Sciences

Holders of Certificate of Secondary Education Examination (CSEE) with four (4) Passes in non-religious Subjects including at least "D" Passes in Chemistry, Biology and Physics/Engineering Sciences a Pass in Basic Mathematics and English Language is an added advantage.

2.7 Entry Requirements for Degree Programmes

2.7.1 Bachelor of Science (BSc) in Health Laboratory Sciences

(i) Direct Entry

Three principal passes in **Physics, Chemistry** and **Biology** 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**.

(ii) Equivalent Entry

Diploma in Medical Laboratory Sciences **with an average of "B'' or a minimum GPA of 3.0**. In addition, an applicant **shall** have a minimum of "**D**" grade in the following subjects: Mathematics, Chemistry, Biology, Physics and English at O-Level.

2.7.2 Bachelor of Science (BSc) in Nursing

(i) Direct Entry qualifications

Three principal passes in **Chemistry, Biology** and either **Physics or Mathematics or Nutrition** with a minimum of **6 points;** i.e., an applicant **shall** have at least **C** grade in **Chemistry** and at least **D** grade in **Biology** and **E** grade in **Physics or Mathematics or Nutrition.**

(ii) Equivalent Entry qualifications

Diploma in Nursing **with an average of "B'' or a minimum GPA of 3.0**. In addition, an applicant shall have a minimum of "**D**" grade in the following subjects: Mathematics, Chemistry, Biology, Physics and English at O-Level.

2.7.3 Bachelor of Science (BSc) in Physiotherapy

(i) Direct Entry

Three principal passes in **Physics, Chemistry** and **Biology** 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**.

(ii) Equivalent Entry

Diploma in Physiotherapy **with an average of "B'' or a minimum GPA of 3.0**. In addition, an applicant **must** have a minimum of "**D**" grade in the following subjects: Mathematics, Chemistry, Biology, Physics and English at O-Level.

2.7.4 Bachelor of Science (BSc) in Prosthetics & Orthotics

(i) Direct Entry:

Three principal passes of at least a **"C"** grade in **Chemistry "D"** grade in **Biology** and **"E"** grade in

Physics/Mathematics and a minimum **point aggregate of 6.**

(ii) Equivalent Entry

A Diploma in Orthopedics Technology with an overall average of grade **B+** or **GPA of 3.0 and above,** from an approved and recognized Institution by TCU or NACTVET**.**

2.7.5 Bachelor of Science (BSc) in Optometry

(i) Direct Entry

Three principal passes of at least a **"C"** grade in Physics **"D" grade** in **Biology** and **"E"** grade in **Chemistry/Mathematics** and a **minimum point aggregate of 6.**

(ii) Equivalent Entry.

Diploma in Optometry with an overall average of **B+ grad**e or a **GPA of 3.0.**

2.7.6 Bachelor of Science (BSc) in Occupational Therapy

(i) Direct Entrants:

Three principal passes in Physics, Chemistry and Biology, at Advanced ("A") level with minimum entry point of 6 points, whereby one must have at least D grade in Physics, Chemistry and Biology.

(ii) Equivalent Qualification:

Holders of Diploma in Occupational Therapy with an average of "B" grade or GPA of 3.0 PLUS Certificate of Secondary Education Examination (CSEE) with at least Five (5) passes in Mathematics, Geography, Chemistry, Biology, Physics, Nutrition, Economics, Engineering Science, Physical Science and English.

2.7.7 Doctor of Medicine (MD)

(i) 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.**

(ii) Equivalent Entry.

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 the following subjects: Mathematics, Chemistry, Biology, Physics and English at O-Level.

2.8 Entry Requirements for Master Programmes

2.8.1 Master of Public Health (MPH)

(i) Medical Doctors, Dentists, Pharmacists, Environmental Health Scientists or graduate Nurses from this University College or any other recognized University, **OR;**

(ii) Candidates from any other recognized University in health- or health-related fields such as sociology, anthropology, Biostatistics, Demography, Food sciences, Veterinary sciences, Epidemiology, Health information science and Law.

(iii) All graduates shall have passed and obtained at least a lower second class or a minimum **GPA of 2.7** (old guidelines) or a **GPA of 3.0** (2019 Guidelines) at undergraduate level, and their undergraduate institutions must be approved and recognized by TCU or NACTVET and at least one year's work experience in a health related, health delivery or health intervention work.

2.8.2 Master of Science (MSc) In Clinical Research

(i) Doctor of Medicine (MD), Doctor of Dental Surgery (DDS) degrees or their equivalents (MBBS, MB ChB, BDS) with a minimum **GPA of 2.7** (old guidelines) or a **GPA of 3.0** (2019 Guidelines) or a "**B**" grade average, **OR;**

(ii) **Bachelor of Science (BSc),** with a minimum **GPA of 2.7** (old guidelines) or a GPA of 3.0 (2019 Guidelines) **or a "B" grade average in** Biology, Zoology, Microbiology, Parasitology, Environmental Health, Biomedical Sciences and Health Laboratory Sciences.

2.8.3 Master of Science (MSc) in Epidemiology & Applied Biostatistics

A bachelor's degree in medicine, dentistry, biostatistics, statistics, epidemiology, demography, or biological sciences with a minimum **GPA of 2.7** (old guidelines) or a **GPA of 3.0** (2019 Guidelines) **or a "B" grade average**.

2.8.4 Master of Science (MSc) in Microbiol. Imm. & Mol. Biol.

Bachelor of Science in Biological Sciences such as, Medicine, Veterinary medicine, Microbiology, Biology, Zoology, Molecular biology, and Biotechnology, with at least a minimum **GPA of 2.7** (old guidelines) or a **GPA of 3.0** (2019 Guidelines) or a **"B" grade average**.

2.8.5 Master of Science (MSc) in Parasitol. & Med. Entomol.

(i) Doctor of Medicine (MD) or equivalent from a recognized University OR;

(ii) Bachelor of Science (BSc) in Biology, Zoology, Microbiology, Environmental Health, or Animal

Science with a minimum **GPA of 2.7** (old guidelines) or a **GPA of 3.0** (2019 Guidelines) or **B grade average**.

2.8.6 Master of Science (MSc) in Urology

(i) An MD Degree from a recognized University with a **GPA of 2.7** (old guidelines) or a **GPA of 3.0** (2019 Guidelines) or **'B'** grade average.
(ii) An MMed degree in General Surgery or equivalent

2.8.7 Master of Science (MSc) in Midwifery

(i) Bachelor's degree in nursing, nursing/midwifery, or midwifery with a minimum **GPA 2.7** (old guidelines) or a **GPA of 3.0** (2019 Guidelines) or **B grade average**. The candidate must be a qualified nurse, nurse/midwife or a midwife and registered with Tanzania Nurses and Midwives Council (TNMC).
(ii) The candidate must have a valid Nursing/Midwifery license to practice.

2.8.8 Master of Science (MSc) Anatomy and Neuroscience

(i) Doctor of Medicine (MD) or equivalent (MBBS, MB ChB) with a minimum **GPA of 2.7** (old guidelines) or a **GPA of 3.0** (2019 Guidelines) or '**B' grade average**.
(ii) Bachelor of Science (BSc) in Biology, Zoology with a minimum **GPA of 2.7** (old guidelines) or a **GPA of 3.0** (2019 Guidelines) or '**B' grade average**.

2.8.9 Master of Science (MSc) in Monitoring & Evaluation for Health Programmes

(i) A candidate must have a minimum GPA of 2.7 at a bachelor's degree OR a least a GPA of 4.0 at postgraduate diploma level from a recognized Higher Learning Institution.

(ii) For unclassified bachelor's degree, a candidate must have a B average in the relevant subjects.

2.8.10 Entry Requirements for Master of Medicine (MMed) Programmes

An applicant shall have a relevant academic First degree (MD, MBBS, MBChB), UQF level 8 or equivalent with a minimum **GPA of 2.7** (old guidelines) or a '**B' grade average**. DDS candidates are not eligible for MMed but MDent degrees.

2.8.11 Entry Requirements for PhD Programmes

A candidate shall have a relevant master's degree (MPH, MSc, MMed) with a minimum **GPA of 3.0** or a '**B' grade average** at master's degree level.

3.0 BURSARIES AND FEES

3.1 Introduction

3.1.1 Payment of fees and other financial obligations are a contract between the University College and the students. It is the sole responsibility of the student to solicit for the fees and deposits and pay in a timely fashion.

3.1.2 With exception of finalists, excess fees paid by sponsor/guardian/parent shall be carried forward to the next academic year.

3.1.3 Fees paid will not be refunded if a student withdraws or leaves the College.

3.1.4 The College accounts are for College activities only and personal funds should not be routed through the accounts.

3.1.5 Double sponsorship is not allowed. In such an event the fees of one of the sponsors shall be returned to the sponsor.

3.1.6 Fee and other payments shall be made directly to the College Bank account and a pay-in-slip shall be presented and receipted for registration purposes. The College accounts are as follows: -

Local (TZS) Account: -
Kilimanjaro Christian Medical University College
Account no: 017101001339
NBC Moshi Branch

Forex Account (Dollar account): -
Kilimanjaro Christian Medical University College
Account no: 017105000676
NBC Moshi Branch
SWIFT CODE. NLCBTZTX
P. O. Box 3030, MOSHI,
Tanzania.

3.2 Fees Structure

(i) The tables below present estimates of typical costs for different programmes at the KCMU College.

(ii) Actual costs will vary depending upon the specific year and needs of the student.

(iii) Foreign students shall be required to pay for resident permit and must check the prevailing amount as may be determined by the Government from time to time.

(iv) The University College reserves the right to change any fees, deposits, and other charges or any other provisions of this section at any time and without prior notification to the student or their sponsor and any such changes shall have immediate effect.

3.2.5 FEE STRUCTURE FOR ALL STUDENTS

NB: ALL FIRST YEARS - Please take NOTE OF A NEW FEE STRUCTURE FROM 2022/2023

3.2.5.1 DIPLOMA IN MEDICAL LABORATORY SCIENCES AND OTHER DIPLOMA PROGRAMMES

Direct to College costs	Year 1		Year 2		Year 3	
	Local (TZS)	International ($)	Local (TZS)	International ($)	Local (TZS)	International ($)
Registration Fee	30,000	30	-	-	-	-
Identity Card	10,000	10	-	-	-	-
Caution Money	30,000	30	-	-	-	-
Workshops and Local Conferences Fee	30,000	30	30,000	0	30,000	30
Student Union Fee	20,000	20	20,000	20	20,000	20
TCU Quality Assurance	20,000	20	20,000	20	20,000	20
Tuition Fee	1,850,000	1,500	1,850,000	1,500	1,850,000	1,500
Examination Fee	500,000	500	500,000	500	500,000	500
ICT Facilitation	50,000	50	50,000	50	50,000	50
Graduation	-	-	-	-	60,000	60
Field Work Supervision	-	-	100,000	100	100,000	100
Teaching Material	300,000	300	300,000	300	300,000	300
NHIF fee	50,400		50,400	-	50,400	-
Facility sustainability fee	50,000	50	-	-	-	-
Total payable to the college	**2,940,400**	**2,540**	**2,920,400**	**2,520**	**2,980,400**	**2,580**

DIP HLS	Year 1		Year 2		Year 3	
Direct to Student Costs	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**
Accommodation	800,000	800	800,000	800	800,000	800
Meals	2,250,000	2,250	2,250,000	2,250	2,250,000	2,250
Stationery	200,000	200	200,000	200	200,000	200
Books	100,000	100	100,000	100	100,000	100
Field work			200,000	200	200,000	200
Special faculty requirements	100,000	100	100,000	100	100,000	100
Total Cost Payable to Students	**3,450,000**	**3,450**	**3,650,000**	**3,650**	**3,650,000**	**3,650**

3.2.5.2 DIRECT UNIVERSITY COSTS FOR BSc IN NURSING

Direct to College costs	Year 1		Year 2		Year 3		Year 4	
	Local (TZS)	International ($)	Local (TZS)	International ($)	Local (TZS)	International ($)	Local (TZS)	International ($)
Registration Fee	50,000	50						
Identity Card	10,000	10						
Caution Money	50,000	50						
Tuition Fee	4,000,000	3,000	4,000,000	3,000	4,000,000	3,000	4,000,000	3,000
Examination Fee	250,000	250	250,000	250	250,000	250	250,000	250
ICT Facilitation	50,000	50	50,000	50	50,000	50	50,000	50
Graduation							100,000	100
Research supervision					200,000	200		
Fieldwork supervision			300,000	300	300,000	300		
Workshops/Local Conferences Fee	30,000	30	30,000	30	30,000	30	30,000	30
TCU Quality Assurance	20,000	20	20,000	20,	20,000	20	20,000	20
Student Union	20,000	20	20,000	20	20,000	20	20,000	20
Teaching Materials	300,000	300	300,000	300	300,000	300	300,000	300
Facility sustainability fee	50,000	50						

NIHF fund	50,400	50	50,400	50	50,400	50	50,400	50
Total payable to the college	**4,880,400**	**3,880**	**5,020,400**	**4,000**	**5,220,400**	**4,220**	**4,820,400**	**3,820**
BSc Nursing	**Year 1**		**Year 2**		**Year 3**		**Year 4**	
Direct to Student Costs *	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**
Accommodation	800,000	800	800,000	800	800,000	800	800,000	800
Meals	2,250,000	2,250	2,250,000	2,250	2,250,000	2,250	2,250,000	2,250
Stationery	200,000	200	200,000	200	200,000	200	200,000	200
Books	500,000	500	500,000	500	500,000	500	500,000	500
Special Faculty Requirements	400,000	400	400,000	400	400,000	400	400,000	400
Fieldwork	-	-	300,000	300	300,000	300	-	-
Research	-	-			500,000	500	-	-
Total Cost Payable to Students	**4,150,000**	**4,150**	**4,450,000**	**4,450**	**4,950,000**	**4,950**	**4,150,000**	**4,150**

3.2.5.3. DIRECT UNIVERSITY COSTS FOR BSc IN HEALTH LABORATORY SCIENCES

Direct to College costs	Year 1		Year 2		Year 3	
	Local (TZS)	International ($)	Local (TZS)	International ($)	Local (TZS)	International ($)
Registration Fee	50,000	50	-	-	-	-
Identity Card	10,000	10	-	-	-	-
Caution Money	50,000	50	-	-	-	-
TCU Quality Assurance	20,000	20	20,000	20	20,000	20
Tuition Fee	4,000,000	3,500	4,000,000	3,500	4,000,000	3,500
Examination Fee	250,000	250	250,000	250	250,000	250
ICT Facilitation	50,000	50	50,000	50	50,000	50
Graduation	-	-	-	-	100,000	100
Research Supervision	-	-	-	-	200,000	200
Field Supervision	-	-	-	-	300,000	300
NHIF fee	50,400		50,400		50,400	-
Facility sustainability fee	50,000	50	-	-	-	-
Teaching Materials	300,000	300	300,000	300	300,000	300
Workshops and Local Conferences Fee	30,000	30	30,000	30	30,000	30
Student Union	20,000	20	20,000	20	20,000	20

Total payable to the College	**4,880,400**	**4,330**	**4,720,400**	**4,170**	**5,320,400**	**4,770**

BSc HLS	**Year 1**		**Year 2**		**Year 3**	
Direct to Student Costs *	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**
Accommodation	800,000	800	800,000	800	800,000	800
Meals	2,250,000	2,250	2,250,000	2,250	2,250,000	2,250
Stationery	200,000	200	200,000	200	200,000	200
Books	300,000	300	300,000	300	300,000	300
Fieldwork	-	-	-	-	300,000	300
Special faculty requirements	300,000	300	300,000	300	300,000	300
Research	-	-	-	-	500,000	500
Total Cost Payable to Students	**3,850,000**	**3,850**	**3,850,000**	**3,850**	**4,650,000**	**4,650**

3.2.5.4. DIRECT UNIVERSITY COSTS FOR BSC IN PHYSIOTHERAPY

Direct to College costs	Year 1		Year 2		Year 3		Year 4	
	Local (TZS)	International ($)	Local (TZS)	International ($)	Local (TZS)	International ($)	Local (TZS)	International ($)
Registration Fee	50,000	50	-	-	-	-	-	-
Identity Card	10,000	10	-	-	-	-	-	-
Caution Money	50,000	50	-	-	-	-	-	-
Tuition Fee	3,100,000	3,000	3,100,000	3,000	3,100,000	3,000	3,100,000	3,000
Examination Fee	250,000	250	250,000	250	250,000	250	250,000	250
ICT Facilitation	50,000	50	50,000	50	50,000	50	50,000	50
Graduation	-	-	-	-	-	-	100,000	100
Research supervision	-	-	-	-	-	-	200,000	200
Fieldwork supervision	-	-	300,000	300	-	-	300,000	300
Workshops and Local Conferences Fee	30,000	30	30,000	30	30,000	30	30,000	30
TCU Quality Assurance	20,000	20	20,000	20	20,000	20	20,000	20
Student Union	20,000	20	20,000	20	20,000	20	20,000	20
NIHF fund	50,400	50	50,400	50	50,400	50	50,400	50
Teaching Materials	300,000	300	300,000	300	300,000	300	300,000	300
Facility sustainability fee	50,000	50	-	-	-	-	-	-

Total payable to the college	**3,980,400**	**3,880**	**4,120,400**	**4,020**	**3,820,400**	**3,720**	**4,420,400**	**4,320**
BSc PHYSIOTHERAPY	**Year 1**		**Year 2**		**Year 3**		**Year 4**	
Direct to Student Costs *	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**
Accommodation	800,000	800	800,000	800	800,000	800	800,000	800
Meals	2,250,000	2,250	2,250,000	2,250	2,250,000	2,250	2,250,000	2,250
Stationery	200,000	200	200,000	200	200,000	200	200,000	200
Books	500,000	500	500,000	500	500,000	500	500,000	500
Special Faculty Requirements	300,000	300	300,000	300	300,000	300	300,000	300
Fieldwork	-	-	500,000	500	-	-	500,000	500
Research	-	-	-	-	500,000	500	-	-
Total Cost Payable to Students	**4,050,000**	**4,050**	**4,550,000**	**4,550**	**4,550,000**	**4,550**	**4,550,000**	**4,550**

3.2.5.5. BACHELOR OF SCIENCE IN PROSTHETIC & ORTHOTICS

Direct to College costs	Year 1		Year 2		Year 3		Year 4	
	Local (TZS)	International ($)	Local (TZS)	International ($)	Local (TZS)	International ($)	Local (TZS)	International ($)
Registration Fee	50,000	50	-	-	-	-	-	-
Identity Card	10,000	10	-	-	-	-	-	-
Caution Money	50,000	50	-	-	-	-	-	-
Tuition Fee	4,000,000	3,000	4,000,000	3,000	4,000,000	3,000	4,000,000	3,000
Examination Fee	250,000	250	250,000	250	250,000	250	250,000	250
ICT Facilitation	50,000	50	50,000	50	50,000	50	50,000	50
Graduation	-	-	-	-	-	-	100,000	100
Research supervision	-	-	-	-	200,000	200	-	-
Fieldwork supervision			300,000	300	300,000	300	-	-
Workshops and Local Conferences Fee	30,000	30	30,000	30	30,000	30	30,000	30
TCU Quality Assurance	20,000	20	20,000	20,	20,000	20	20,000	20
Student Union	20,000	20	20,000	20	20,000	20	20,000	20
Teaching Materials	800,000	800	800,000	800	800,000	800	800,000	800
Facility sustainability fee	50,000	50	-	-	-	-	-	-
NIHF fund	50,400	50	50,400	50	50,400	50	50,400	50
Total payable to the college	**5,380,400**	**4,380**	**5,520,400**	**4,500**	**5,720,400**	**4,720**	**5,320,400**	**4,320**

BSc P&O	Year 1		Year 2		Year 3		Year 4	
Direct to Student Costs *	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**
Accommodation	800,000	800	800,000	800	800,000	800	800,000	800
Meals	2,250,000	2,250	2,250,000	2,250	2,250,000	2,250	2,250,000	2,250
Stationery	200,000	200	200,000	200	200,000	200	200,000	200
Books	500,000	500	500,000	500	500,000	500	500,000	500
Special Faculty Requirements	300,000	300	300,000	300	300,000	300	300,000	300
Fieldwork	-	-	500,000	500	-	-	500,000	500
Research	-	-	-	-	500,000	500		
Total Cost Payable to Students	**4,050,000**	**4,050**	**4,550,000**	**4,550**	**4,550,000**	**4,550**	**4,550,000**	**4,550**

3.2.5.6 DIRECT UNIVERSITY COSTS FOR BSC IN OPTOMETRY

Direct to College costs	Year 1		Year 2		Year 3		Year 4	
	Local (TZS)	**International ($)**	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**
Registration Fee	50,000	50	-	-	-	-	-	-
Identity Card	10,000	10	-	-	-	-	-	-

Caution Money	50,000	50	-	-	-	-	-	-
Tuition Fee	4,000,000	3,000	4,000,000	3,000	4,000,000	3,000	4,000,000	3,000
Examination Fee	250,000	250	250,000	250	250,000	250	250,000	250
ICT Facilitation	50,000	50	50,000	50	50,000	50	50,000	50
Graduation	-	-	-	-	-	-	100,000	100
Research supervision	-	-	-	-	200,000	200	-	-
Fieldwork supervision	-	-	300,000	300	300,000	300	-	-
Workshops and Local Conferences Fee	30,000	30	30,000	30	30,000	30	30,000	30
TCU Quality Assurance	20,000	20	20,000	20,	20,000	20	20,000	20
Student Union	20,000	20	20,000	20	20,000	20	20,000	20
Teaching Materials	800,000	800	800,000	800	800,000	800	800,000	800
Facility sustainability fee	50,000	50	-	-	-	-	-	-
NIHF fund	50,400	50	50,400	50	50,400	50	50,400	50
Total payable to the college	**5,380,400**	**4,380**	**5,520,400**	**4,500**	**5,720,400**	**4,720**	**5,320,400**	**4,320**

BSc in Optometry	Year 1		Year 2		Year 3		Year 4	
Direct to Student Costs *	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**
Accommodation	800,000	800	800,000	800	800,000	800	800,000	800
Meals	2,250,000	2,250	2,250,000	2,250	2,250,000	2,250	2,250,000	2,250
Stationery	200,000	200	200,000	200	200,000	200	200,000	200
Books	500,000	500	500,000	500	500,000	500	500,000	500
Special Faculty Requirements	300,000	300	300,000	300	300,000	300	300,000	300
Fieldwork	-	-	500,000	500	-	-	500,000	500
Research	-	-	-	-	500,000	500	-	-
Total Cost Payable to Students	**4,050,000**	**4,050**	**4,550,000**	**4,550**	**4,550,000**	**4,550**	**4,550,000**	**4,550**

3.2.5.7 DIRECT UNIVERSITY COSTS FOR BACHELOR OF SCIENCE IN OCCUPATIONAL THERAPY (BSc OT)

Direct to College costs	Year 1		Year 2		Year 3		Year 4	
	Local (TZS)	International ($)	Local (TZS)	International ($)	Local (TZS)	International ($)	Local (TZS)	International ($)
Registration Fee	50,000	50	-	-	-	-	-	-
Identity Card	10,000	10	-	-	-	-	-	-
Caution Money	50,000	50	-	-	-	-	-	-
Tuition Fee	3,100,000	3,000	3,100,000	3,000	3,100,000	3,000	3,100,000	3,000
Examination Fee	250,000	250	250,000	250	250,000	250	250,000	250
ICT Facilitation	50,000	50	50,000	50	50,000	50	50,000	50
Graduation	-	-	-	-	-	-	100,000	100
Research supervision	-	-	-	-	-	-	200,000	200
Fieldwork supervision	-	-	300,000	300	300,000	300	300,000	300
Workshops and Local Conferences Fee	30,000	30	30,000	30	30,000	30	30,000	30
TCU Quality Assurance	20,000	20	20,000	20	20,000	20	20,000	20
Student Union	20,000	20	20,000	20	20,000	20	20,000	20
NIHF fund	50,400	50	50,400	50	50,400	50	50,400	50
Teaching Materials	300,000	300	300,000	300	300,000	300	300,000	300
Facility sustainability fee	50,000	50	-	-	-	-	-	-
Total payable to the college	**3,980,400**	**3,880**	**4,120,400**	**4,020**	**4,120,400**	**4,020**	**4,420,400**	**4,320**

	Year 1		Year 2		Year 3		Year 4	
Direct to Student Costs *	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**
Accommodation	800,000	800	800,000	800	800,000	800	800,000	800
Meals	2,250,000	2,250	2,250,000	2,250	2,250,000	2,250	2,250,000	2,250
Stationery	200,000	200	200,000	200	200,000	200	200,000	200
Books	500,000	500	500,000	500	500,000	500	500,000	500
Special Faculty Requirements	300,000	300	300,000	300	300,000	300	300,000	300
Fieldwork	-	-	500,000	500	-	-	500,000	500
Research	-	-	-	-	500,000	500	-	-
Total Cost Payable to Students	**4,050,000**	**4,050**	**4,550,000**	**4,550**	**4,550,000**	**4,550**	**4,550,000**	**4,550**

3.2.5.8 DIRECT UNIVERSITY COSTS FOR DOCTOR OF MEDICINE (MD)

College costs	Year 1		Year 2		Year 3		Year 4		Year 5	
	Local (TZS)	Internat ($)	Local (TZS)	Internat ($)	Local (TZS)	Internat ($)	Local (TZS)	Internat ($)	Local (TZS)	Internat ($)
Registration Fee	50,000	50	-	-	-	-	-	-	-	-
Identity Card	10,000	10	-	-	-	-	-	-	-	-
Caution Money	50,000	50	-	-	-	-	-	-	-	-
Tuition Fee	4,200,000	3,000	4,200,000	3,000	4,200,000	3,000	4,200,000	3,000	4,200,000	3,000
Examination Fee	250,000	250	250,000	250	250,000	250	250,000	250	250,000	250
ICT Facilitation	50,000	50	50,000	50	50,000	50	50,000	50	50,000	50
Graduation	-	-	-	-	-	-	-	-	100,000	100
Elective/Research Supervision	-	-	-	-	-	--	200,000	200	-	-
Com. Outreach Supervision	200,000	200	200,000	200	300,000	300	300,000	300	-	-
Facility sustainability fee	50,000	50	-	-	--	-	-	-	-	-
-Community Outreach	400,000	400	400,000	400	400,000	400	400,000	400	0	0
Teaching Materials	300,000	300	300,000	300	300,000	300	300,000	300	300,000	300
Peripheral Placements	-	-	-	-	250,000	250	-	-	-	-
W/shops & Local Conferences Fee	30,000	30	30,000	30	30,000	30	30,000	30	30,000	30
TCU Quality Assurance	20,000	20	20,000	20	20,000	20	20,000	20	20,000	20

Student Union	20,000	20	20,000	20	20,000	20	20,000	20	20,000	20
NIHF fund	50,400	50	50,400	50	50,400	50	50,400	50	50,400	50
Total payable to the college	**5,680,400**	**4,480**	**5,520,400**	**4,320**	**5,870,400**	**4,670**	**5,820,400**	**4,620**	**5,020,400**	**3,820**

DOCTOR OF MEDICINE	**Year 1**		**Year 2**		**Year 3**		**Year 4**		**Year 5**	
Direct to Student Costs *	**Local (TZS)**	**Foreign ($)**	**Local (TZS)**	**Foreign ($)**	**Local (TZS)**	**Foreign ($)**	**Local (TZS)**	**Foreign ($)**	**Local (TZS)**	**Foreign ($)**
Accommodation	800,000	800	800,000	800	800,000	800	800,000	800	800,000	800
Meals	2,250,000	2,250	2,250,000	2,250	2,250,000	2,250	2,250,000	2,250	2,250,000	2,250
Stationery	100,000	100	100,000	100	100,000	100	100,000	100	100,000	100
Books	500,000	500	500,000	500	500,000	500	500,000	500	500,000	500
Fieldwork	200,000	200	200,000	200	300,000	300	300,000	300		
Special Faculty Requirements	600,000	600	600,000	600	600,000	600	600,000	600	600,000	600
Elective Research	-	-	-	-	-	-	500,000	500	-	-
Total Cost Payable to Students	**4,450,000**	**4,450**	**4,450,000**	**4,450**	**4,550,000**	**4,550**	**5,050,000**	**5,050**	**4,250,000**	**4,050**

3.2.5.8 DIRECT UNIVERSITY COSTS FOR – MPH & MASTER OF SCIENCE PROGRAMMES

Direct to College Costs	Year 1		Year 1		Year 2			
	MPH		All MSc		MSc EAB/ Urology		All MSc	
	Local (TZS)	International ($)	Local (TZS)	International ($)	Local (TZS)	International ($)	Local (TZS)	International ($)
Registration Fee	100,000	50	100,000	50	-	-	-	-
Identity Card	10,000	10	10,000	10	-	-	-	-
Caution Money	50,000	50	50,000	50	-	-	-	-
Tuition Fee	4,500,000	4,000	4,700,000	4,200	4,700,000	4,200	4,700,000	4,200
Examination Fee	250,000	200	250,000	200	250,000	200	250,000	200
ICT Facilitation	50,000	50	50,000	50	50,000	50	50,000	50
LAB Training Expenses	-	-	400,000	400	-	-	400,000	400
Research Supervision	200,000	200	-	-	200,000	200	-	-
Facility sustainability fee	50,000	50	50,000	50	-	-	-	-
Institutional Special Faculty Requirements/Teaching Materials	100,000	100	500,000	500	500,000	500	700,000	700
Graduation	100,000	100	-	-	100,000	100	100,000	100
Workshops and Local Conferences Fee	50,000	50	50,000	50	50,000	50	50,000	50

TCU Quality Assurance	20,000	20	20,000	20	20,000	20	20,000	20
Student Union	20,000	20	20,000	20	20,000	20	20,000	20
Total payable to College	**5,500,000**	**4,900**	**6,200,000**	**5,600**	**5,890,000**	**5,340**	**6,290,000**	**5,740**
MPH AND MSc Programmes	**Year 1**		**Year 1**		**Year 2**			
Direct to Student Costs*	**MPH**		**All MSc**		**MSc EAB/ Urology**		**All MSc**	
	Local (TZS)	**International ($)**	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**
Accommodation	1,200,000	1,200	1,200,000	1,200	1,200,000	1,200	1,200,000	1,200
Meals	2,250,000	2,250	2,250,000	2,250	2,250,000	2,250	2,250,000	2,250
Stationery	200,000	200	200,000	200	200,000	200	200,00	200
Special Faculty Requirements	600,000	600	600,000	600	600,000	600	600,000	600
Research	2,000,000	2,000	-	-	2,000,000	2,000	2,500,000	2,500
Dissertation	500,000	500	-	-	500,000	500	50,000	500
TCU verification fees	-	100	-	100	-	-	-	-
Health Insurance	-	350	-	350	-	350	-	350
Immigration Permit	-	250	-	250	-	250	-	250

Laptop (Mandatory)	1,500,000	1,200	1,500,000	1,200,000	-	-	-	-
Total Cost Payable to Students	**8,250,000**	**8,650**	**5,750,000**	**1,204,950**	**6,750,000**	**7,350**	**6,600,000**	**7,850**

KEY

MPH= Master of Public Health
EAB = Epidemiology & Applied Biostatistics
CL = Clinical Research
PA = Parasitology/Entomology
MMIM = Microbiology Immunology & Molecular Biology
MW= Midwifery
AN- Anatomy

3.2.5.9 DIRECT UNIVERSITY COSTS FOR - MASTER OF MEDICINE (MMed)

Direct to College costs	Year 1		Year 2		Year 3		Year 4	
	Local (TZS)	International ($)	Local (TZS)	International ($)	Local (TZS)	International ($)	Local (TZS)	In
Registration Fee	100,000	50	-	-	-	-	-	
Identity Card	10,000	10	-	-	-	-	-	
Caution Money	50,000	50	-	-	-	-	-	
Student Union Fee	20,000	20	20,000	20	20,000	20	20,000	
Tuition Fee	4,900,000	4,500	4,900,000	4,500	4,900,000	4,500	4,900,000	
Examination Fee	400,000	400	400,000	400	400,000	400	400,000	
ICT Facilitation	50,000	50	50,000	50	50,000	50	50,000	
Facility sustainability fee	50,000	50	-	-	-	-	-	
Institutional Special Faculty Requirements	500,000	500	500,000	500	500,000	500	500,000	
Teaching Materials	300,000	300	300,000	300	300,000	300	300,000	
Research supervision	-	-	-	-	300,000	300	-	
Workshops and Local Conferences Fee	50,000	50	50,000	50	50,000	50	50,000	
Graduation	-	-	-	-	-	-	100,000	
TCU Quality Assurance	20,000	20	20,000	20	20,000	20	20,000	
Total payable to the college	**6,450,000**	**6,000**	**6,240,000**	**5,840**	**6,540,000**	**6,140**	**6,340,000**	

MASTER OF MEDICINE	Year 1		Year 2		Year 3		Year 4	
Direct to Student Costs*	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**	**Local (TZS)**	**Int**
Accommodation	1,200,000	1,200	1,200,000	1,200	1,200,000	1,200	1,200,000	
Meals	2,250,000	2,250	2,250,000	2,250	2,250,000	2,250	2,250,000	
Medical Council of Tanganyika License Fee	-	250	250,000	250	250,000	250	250,000	
TCU verification fees	-	100	-	-	-	-	-	
Health Insurance	-	350	350,000	350	-	350	-	
Immigration Permit	-	250	-	250	-	250	-	
Book Allowance	500,000	500	500,000.00	500	500,000	500	500,000	
Stationery	300,000	300	300,000	300	300,000	300	300,000	
Special Faculty Requirements	600,000	600	600,000	600	600,000	600	600,000	
Research	-	-	3,000,000	3,000	-	-	-	
Dissertation/thesis production/Publication	-	-	-	-	500,000	500	-	
Laptop*	1,500,000	1,200	-	-	-	-	-	
Total Cost Payable to Students	**5,350,000**	**7,000**	**8,450,000**	**8,700**	**5,600,000**	**6,200**	**5,100,000**	

*Compulsory for all MMed students

3.2.5.10 DIRECT UNIVERSITY COSTS FOR DOCTOR OF PHILOSOPHY (PHD)

Direct to College costs	Year 1		Year 2		Year 3		Year 4	
	Local (TZS)	International ($)	Local (TZS)	International ($)	Local (TZS)	International ($)	Local (TZS)	International ($)
Registration Fee	100,000	100	-	-	-	-	-	-
Identity Card	10,000	10	-	-	-	-	-	-
Caution Money	50,000	50	-	-	-	-	-	-
Tuition Fee	6,600,000	5,500	6,600,000	5,500	6,600,000	5,500	6,600,000	5,500
Assessment/Seminars	200,000	200	200,000	200	250,000	250	250,000	250
Supervision	1,000,000	1,000	1,500,000	1,500	1,500,000	1,500	1,500,000	1,500
ICT Facilitation	100,000	100	100,000	100	100,000	100	100,000	100
Facility sustainability fee	100,000	100	-	-	-	-	-	-
Special Faculty/Lab Requirements	200,000	200	200,000	200	200,000	200	200,000	200
Thesis Defence	-	-	-	-	-	-	600,000	600
Graduation	-	-	-	-	-	-	200,000	200
TCU Quality Assurance	20,000	20	20,000	20	20,000	20	20,000	20
Student Union	20,000	20	20,000	20	20,000	20	20,000	20

Total payable to the college	**8,400,000**	**7,300**	**8,640,000**	**7,540**	**8,690,000**	**7,590**	**9,490,000**	**8,390**

DOCTOR OF PHILOSOPHY	**Year 1**		**Year 2**		**Year 3**		**Year 4**	
Direct to Student Costs	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**	**Local (TZS)**	**International ($)**
Stipend	4,050,000	1,929	4,050,000	1,929	4,050,000	1,929	4,050,000	1,929
Stationery	100,000	48	100,000	48	100,000	48	100,000	48
Research/Thesis*	5,000,000	3,000	20,000,000	7,143	15,000,000	7,143	10,000,000	7,143
TCU verification fees	-	100	-	-	-	-	-	-
Health Insurance	-	350	-	350	-	350	-	350
Immigration Permit	-	250	-	250	-	250	-	250
Laptop**	2,000,000	1,500	-	-	-	-	-	-
Total Payable to Students	**11,150,000**	**7,177**	**24,150,000**	**9,720**	**19,150,000**	**9,720**	**14,150,000**	**9,720**

* This depends on the nature of a research work. It usually ranges between **TZS 15,000,000** for public health related research to over **TZS 50,000,000** for lab-based research work. The actual cost is determined during the development of a research proposal

** Compulsory for all PhD students

4.0 EXAMINATION REGULATIONS

The Deputy Provost for Academic Affairs (DPAA) controls examinations regulations. Invigilators drawn from the academic staff appointed by the respective faculties supervise college examinations.

4.1 Definitions.

For the purposes of these Regulations unless the context requires otherwise:

(i) **"a course"** is that part of a subject described by a coherent syllabus and taught over a specified period which may be designated as one or more units of study in a programme. A credit of study will depend on the requirements of the course concerned.

(ii) **"a Programme"** is a **c**urriculum of studies that leads to some form of recognition through an academic, technical, or professional award in a discipline.

(iii) **"Academic year**" is a period corresponding to a year in an academic institution normally composed of two semesters.

(iv) **"College Academic Committee**" is the supreme academic organ at the Constituent College level.

(v) **"Continuous Assessment**" is any form of evaluation or Formative Assessment (FA), to assess a module or course during the academic year such as tests, graded practical, fieldwork scores, projects, and assignments.

(vi) **"Special examinations"** are examinations, which after approval by the College Academic Committee and the Senate, are administered to candidates who fail to sit for regular examinations for reasons acceptable to the Academic Committee and the Senate.

(vii) **"supplementary examinations**" are

examinations which, subject to approval by the College Academic Committee and the Senate, are administered to candidates who fail to obtain a pass in specified number of units, modules, courses or fails to attain a set GPA of the modules or courses during the academic year.

(viii) **"University Examinations**" are all Summative Assessments (SA) or evaluations that determines whether a student shall proceed to the next level of study, or the next year of study in the College, or qualifies for an award and graduate.

(ix) **"Regular University Examinations**" are scheduled examinations at the end of each semester of academic year, each clinical rotation or as may be determined by the Senate. A credit of study will depend on the requirements of the course concerned.

4.2 Responsibilities

(i) All matters concerning University Examination shall be supervised by the DPAA under the general direction of the Provost.

(ii) The College Academic Committee shall have authority in all matters affecting examinations, including the setting, conducting, marking and declaration of results at the College level.

(iii) The University Senate shall have overall authority in all matters affecting examinations at the University level and the Senate decision in examination matters shall be final.

4.3 Exemptions

(i) The College Academic, Committee in consultation with the Senate, and under special circumstances, may grant the Faculty exemption

from any of the requirements of these regulations.

(ii) The College Academic Committee in consultation with the Senate, and under special circumstances, may grant any student(s) exemption from any of the requirements of these regulations.

4.4 General College Examination Regulations

(i) The University Examinations Regulations, Guidelines for Invigilators, Terms of Reference for external examiners and general conduct of examinations shall be enforced and send to the relevant persons through the Faculty/Institute Committee.

(ii) The final examinations are controlled by the office of the DPAA, as the Principal College Examination officer and shall be scheduled during the last two weeks of each semester.

(iii) Unless the College Academic Committee in consultation with the Senate directs otherwise, all courses shall be examined within the year in which they are taken.

(iv) A student shall not be allowed to sit for a University Examination in a course if he/she **has missed 20% or more** of the scheduled semester classes for a course and has not completed all courses or modules as per requirements of the course or programme.

(vi) The DPAA shall publish a list of candidates registered for examinations, **at least, two (2) weeks before the beginning of the examinations** and shall **issue each eligible candidate with an examination number**.

(vii) The list prescribed in (vi) above shall be made available to Heads of Department **at least, two (2)**

weeks before the beginning of the examinations.

(viii) Registration numbers (section vi) may be used instead of examination numbers if directed by the DPAA.

(ix) The DPAA shall appoint invigilators for each examination, examination room or examination groups as the case may apply and appoint one of them to be **the Senior Invigilator**.

(x) Each **Senior Invigilator** shall ensure that they have registration lists for candidates registered for each paper in the room in which the examination is taken place.

(xi) Final examinations account for 50% (or more than 50% in some practical/clinical courses or programmes) of the final course grade **(*See section 4.3*).**

(xi) After every Continuous Assessment or Test (CAT) also called Formative Assessment (FA), the course teacher or Head of Department must give feedback to the students promptly following the feedback principles **(*See section 4.3*).**

(xii) Coursework grades will be presented to the student by the respective course coordinator, and the Head of Department, under the general guidance by the respective Dean before the end of semester examinations.

(xiii) A student who finds that the declared grades do not match with the scores on his/her assignment/test examination workbook, should report to the respective course coordinator and Head of Department within the allowed period specified by the coordinator. The course instructor under general supervision by the Head of Department shall then submit the student grades to the Faculty Dean for recording any approved changes.

(xiv) Through the DPAA the Academic Committee, shall bar any student from being admitted to any examination in any subject or course or module where there is evidence that the student has satisfactorily completed, by attendance or otherwise, the requirements of the subject or course.

(xv) Where a student who has been barred from examination sits for a paper, his or her paper shall be null and void.

(xvi) Where the prospectus regulations and programme regulations collide, the prospectus shall prevail.

(xvii) A candidate who fails to present for examinations will be deemed to have failed and awarded 'E' grade for that part of the examination(s).

(xviii) It is the **duty of both faculty and students** to read and be conversant with General and specific Examination Regulations and Guidelines. **Ignorance shall not be entertained**.

4.5 General Examination Regulations for Programmes

4.5.1 Academic integrity

(i) KCMUCo believes that one of the goals of a Christian Institution of higher education is to strengthen academic integrity and responsibility among its members.

(ii) To this end, the College emphasizes the importance of sound judgment and personal sense of responsibility from each student.

(iii) All members of the academic community are expected to respect the highest standards of academic integrity and be the role models.

(iv) The College shall administer an oath of office and handling examinations to all examination officer and all ICT staff on first appointment/employment

and every academic year before the first examinations for that year starts. The format of the oath shall be prescribed in the Examinations Handbook as and annex.

(v) After taking the oath, (Section iv above) which shall be administered by a neutral attorney, the examination or ICT officer, the attorney, the witness (es) shall sign the oath as appropriate, and each officer shall keep one copy. The other copy of the Oath shall be kept in a safe under the custody of the College Lawyer. The College lawyer shall be responsible for implementation of calendar for oaths in the College.

4.5.2 Academic dishonesty

(i) Academic dishonesty is a serious offence at the College and the University in general because it undermines the bonds of trust and personal responsibility between and among students and faculty, weakens the credibility of the academic enterprise and defrauds those who believe in the value of integrity of the degree or diploma offered by the College.

(ii) A student or staff member who commits an act of academic dishonesty shall face disciplinary action.

(iii) Academic dishonesty can take several forms such as:

(a) Cheating - Intentionally using or attempting to use unauthorized materials, information, or study aids in any academic exercise (tests, exercises, examination, etc.).

(b) Fabrication - Intentional and unauthorized falsification or invention of any information or citation in an academic exercise.

(c) Facilitating Academic Dishonesty – Intentionally or knowingly helping or

attempting to help another student commit a breach of academic integrity.

(d) Plagiarism – representing the words or ideas, or data of another as one's own in any academic exercise.

(e) A student who commits an act of academic dishonesty shall face disciplinary action ranging from failure to receive credit on an academic exercise to dismissal from the College.

(iv) A student who has been discontinued from the programme based on academic grounds may reapply to the programme only after two academic years has passed since discontinuation

4.5.3 Eligibility for examination

Students will be eligible to sit for an examination if they have fulfilled the following conditions:

(i) Students shall have attended at least 80% of the scheduled semester class periods for each course and have completed all course requirements.

(ii) Students must not have missed more than **ten (10) consecutive days** of class.

(iii) No candidate shall be allowed to sit for a paper for which he/she has not registered.

(iv) To be eligible to sit for a University Examination, a student must have attempted the required number of CATs (Summative Assessments – SA) on the course being examined.

(v) Students who do not complete assigned work by the end of the semester shall not be allowed to sit for semester examinations.

(vi) Students who have not completed payments of require Tuition and any other fees, shall not be allowed to sit for examinations.

(vii) Under **extenuating circumstances**, the **College Academic Committee** after consultation with the respective Faculty Dean, may waive the

attendance requirements, on Behalf of the Senate but report to Senate for endorsement.

4.6 Regulations for Conducting Examinations

4.6.1 Type of Examinations

Examinations or Assessment in the College shall be conducted using a combination of any of the following modes, depending on the specific requirements of the **course learning outcomes**, year of study and in accordance with the Examination schedule: -

(i) Written Examination (online or paper)
(ii) Viva Voce (Oral) Examination.
(iii) Practical Examination.
(iv) Clinical Examination.
(v) Logbook
(vi) Portfolio.
(vii) Fieldwork attachment report and grading.
(viii) OSCE Station based examination.
(ix) OSPE station-based examination.
(x) Observation and Rating of Performance.
(xi) Dissertation/Thesis marking
(xii) 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.
(xiii) The percentages of the total marks awarded for written, practical/clinical and oral examinations in any course shall be determined by the Academic Committee and Senate on the recommendations of the appropriate Faculty or Academic Institute Board and relevant Department as described in this prospectus under each programme.

4.6.2 Dates of Examinations

(i) End of semester examinations in all Faculties and Academic Institutes shall be held at a time to be determined by the Academic Committee and Senate, which shall normally be at the end of each semester, subject to such exceptions as academic Committee and Senate may allow upon recommendation by the Faculty/Institute Board or the Postgraduates Committee, as the case may be.

(ii) Students 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 Academic Committee or cases by the relevant Faculty/Academic Institute Board 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 Academic Committee and Senate, on recommendation of Faculty Board or Academic Institute Board, present himself/herself for examination at a time fixed for any supplementary examination as a special examination.

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

4.6.3 Formative Assessments (FA)

(i) Students shall make sure that they have been issued with Examination Numbers or Registration Numbers before any Examination or Assessment begins.
(ii) Continuous Assessment Tests (CAT) shall form a component of Formative assessment (FA).
(iii) The minimum number of CATs per subject, per semester or per year shall depend on specific requirements of the module or course concerned.
(iv) CATs shall be spread evenly throughout the teaching period for the subject content, and the last one at least two weeks before the beginning of the end of End of the Year Examinations (EYE), Summative Assessment (SA).
(v) CAT shall include all in-course assessments and those assessment tests conducted at the end of each course, which are not part of EYE/SA.
(vi) After each CAT and FA, the module or subject lecturer shall give feedback to the students timely following feedback principles, before they proceed to the next module or course.
(vii) Departments shall maintain a record of marks of CATs and FA, sample assignments and question papers.
(viii) The records shall be made available to the external examiners, at the end of the audit year.
(ix) Students are required to register when appearing for tests/examinations, when submitting assignment workbooks, as well as when receiving marked assignment workbooks**.**

4.6.4 Invigilation and conduct of Examinations.

(i) University examinations shall be conducted under the control of the DPAA, or such other officer of the College as the DPAA may appoint.

(ii) The DPAA shall issue instructions, guidelines to students, invigilators, and examiners of University examinations, as he/she shall deem appropriate for the proper, efficient, and effective conduct of such examinations.

(iii) Invigilators who are normally academic members of staff shall be appointed and briefed by the Head of Department who is the Chief Internal Examiner in the Department.

(iv) The internal Examiner for any examination paper shall normally be one of the invigilators.

(v) Names of invigilators for various examinations and listed in the examinations timetables, shall be sent to the DPAA one month before the start of the examinations.

(vi) At least two (2) invigilators shall be allocated **to each examination room** and **at least one (i) must be in the examination room throughout examination time**.

(vii) The DPAA shall appoint one of the Senior Invigilators to coordinate invigilation in each examination room where several examinations are taking place.

(viii) Instructions to candidates and invigilators shall be published at the end of each semester by the DPAA, setting out details of procedures to be followed in the conduct of examinations.

(ix) During examination, the responsible department for the examination shall send one dully informed academic staff to make clarification of issues which may not be clear to students and invigilators. The Senior Invigilator shall call the Head of the concerned department to appoint and send the academic staff in (ix above) in case the department did not spontaneously observe this regulation.

(x) The Chief Invigilator shall collect all examination papers and related materials from the

Examination's Office, LATEST half an hour before the start of all respective examinations.

(xi) The Chief Invigilator shall ensure that all examinations start and end on time.

(xii) The Invigilators, under the direction of the Chief Invigilator shall be responsible **for the security** and laying out of the examination papers and for such other duties as may be specified in the instructions to invigilators.

(xiii) Invigilators shall remain in the examination room throughout the examination duration, and at no time shall the room be left without an invigilator.

(xiv) In case where the Invigilator is unable to be present at the start of the examination, he/she shall inform the Head of Department who shall then nominate a replacement from the Department concerned.

(xv) Internal Examiners shall certify the total number of scripts received from the record of candidates who have taken the examination.

(xvi) There shall be an examination report sheet in which the students shall sign upon submission of the script and the invigilators comments about the conduction of the examination.

4.6.5 Irregularities in the Conduction of Examinations

Inappropriate conduct by a student concerning examination impairs academic integrity and will subject the offending student to suspension. Such examination irregularities can include, but are not limited to: -

(i) No unauthorized material (for example purses, electronic equipment such as cellphones and pagers) shall be allowed into examination premises.

(ii) Reading other candidate's answer scripts.

(iii) Attempting to copy or referring to the unauthorized materials in the examination room.

(iv) Communicating with other students, either verbally or through other means, during the examination without permission from the invigilator.
(v) Permitting another candidate to copy from someone's paper.
(vi) Impersonation or endeavoring to obtain assistance from any other candidate directly or indirectly or endeavoring to give assistance to any other student.
(vii) Removing examination answer books/sheet from examination room.
(viii) Starting to attempt the examination before being authorized to do so.
(ix) Continuing the examination after being ordered to stop.
(x) Borrowing of materials such as calculators, rulers, correcting fluid, and pens among students during examinations.
(xi) Destroying or attempting to destroy evidence relating to any suspected irregularity.
(xii) Failing to comply with any other examination rules, regulations, or directions given by an invigilator.
(xiii) Plagiarism and reproducing the works of another person or persons in course work assignments without acknowledgement and with intent to deceive.
(xiv) Absconding an Examination.

4.6.6 Regulations on 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 DPAA who shall have power to summon the students and members of staff of the College, 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.

(iii) 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, such as cell phones and the like.

(iv) Subject to confirmation by Academic Committee and 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 College.

(v) 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 College, subject to confirmation by Senate.

(vi) 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.

(vii) Any candidate found guilty of commission of an examination irregularity and is aggrieved by the decision may appeal to the Senate.

(viii) *In these regulations, unless otherwise directed:*

(a) **"Unauthorized material**" means 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 DPAA, the Dean of a Faculty, Director of an Academic Institute or a Head of an Academic Department.

(b) **"Unauthorized absence from examination"** means 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"** means any form or kind of dishonesty or destruction or falsification of any evidence of irregularity.

(viii) The College Academic Committee may recommend to the Senate to impose 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.

4.6.7 Procedures for dealing with irregularities.

(i) Prior to the beginning of each examination, invigilators shall draw to the attention of candidates the seriousness of irregularities in examinations.

(ii) If an invigilator suspects a student of examination irregularities the following steps shall be taken:

(a) The student shall be approached immediately.

(b) Any unauthorized material in the possession of the students, as

(c) Well as his/her answer book and examination question paper shall be confiscated.

(d) Ensure that the incidence is witnessed by another person to verify the matter.

(e) The invigilator shall report in writing to the Deputy Provost for Academic Affairs within 24 hours;

(f) The Deputy Provost for Academic Affairs shall require the student to submit a written statement concerning the incidence within 24 hours after receiving the invigilator's report.

(g) The Deputy Provost for Academic Affairs shall set up an investigation committee, which should complete the investigation within two weeks.

(h) The investigation committee shall submit the report to the Deputy Provost for Academic Affairs, who shall in turn table the matter before the Academic Committee.

(i) The Academic Committee shall take appropriate action, and if need be, make appropriate recommendations to Senate.

(j) While the matter is under investigation, the candidate may attempt other papers.

(k) An internal examiner, who while marking examination scripts or research or assignment papers suspects that an academic irregularity has taken place, shall report in writing the matter to the Deputy Provost for Academic Affairs, through the respective Faculty Dean.

(l) The Deputy Provost for Academic Affairs will follow the procedures vii) to ix) above.

(m) If it is established that the student committed an examination irregularity, he or she shall be expelled from the University forthwith.

4.7 Setting and Internal Moderation of Examinations

4.7.1 An Internal Examiner is normally an academic member of staff at the level of a Lecturer or above who has taught the course being examined. An internal examiner shall have. Where the Department and the Faculty/Institute fails to get an External Examiner, they can appoint an External Moderator.

4.7.2 An **External Moderator** is a College Faculty at the level of Senior lecturer and above, with at least **three (3) publications** during the past three years. The Moderator shall be appointed from another related department and shall be recommended to the Senate by the **College Academic Committee** for Approval. The procedures for appointing, functions and responsibilities of moderators shall be like those of External Examiners **(Section 4.11)**.

4.7.3 Supplementary and Special Examination papers shall be set simultaneously with the Regular University Examination papers.

4.7.4 Examination papers shall be internally moderated by the Faculty/Departmental Moderation Committee and the moderated examination shall bare the signatures of all those involved. The moderated papers shall be sent to the appointed External Examiners or External Moderators who shall moderate the examination papers before the Examination starts.

4.7.5 The moderated and sealed examination paper shall be sent to the DPAA and/or the

Examination Officer for safe keeping before the start of the examinations.

4.7.6 Strict precautions shall be taken to ensure that there are no examination leakages, and the College Examination Officer and his/her subordinates shall be vetted and take an oath administered by an Attorney from outside the College (Sections

4.7.7 No secretaries or other secretarial staff shall be allowed to handle examinations. The head of department shall be accountable for any leakages which shall occur at the Departmental

4.8 Special Examinations

4.8.1 A special examination is one which is taken at a time other than the regular examination period as the result of extenuating circumstances.

4.8.2 A student may, in extenuating circumstance, be allowed to postpone sitting for an examination, provided he or she reports the matter in writing, before the examination to the Deputy Provost for Academic Affairs through the Dean of Students and the Dean of Faculty.

4.8.3 Such a report shall be accompanied by authentic supporting documents.

4.8.4 With the exception of emergency cases such requests must be submitted to the office of the DPAA at least 48 hours before a given examination is due to start.

4.8.5 A student shall be deemed to be eligible for special examinations after receiving a letter of authorization to take special examinations from the Deputy Provost for Academic Affairs.

4.8.6 Special examinations shall be conducted at such time, coincident with supplementary examinations.

4.8.7 When a student is allowed to sit for a special examination, he/ she shall be attempting the examination for the first time and shall be accorded all the rights provided for in the examination regulations.

4.8.8 Special examinations shall not be availed to students who have absented themselves from regular examinations without written permission.

4.9 Supplementary Examinations

4.9.1 A supplementary examination is one which is taken by a student after he/she fails a paper in a regular or in a special examination.

4.9.2 A student shall be allowed to sit for a supplementary examination only if he/she has failed in less than 50% of the prescribed examination papers.

4.9.3 The supplementary examination must be taken only in the failed paper(s)

4.9.4 Supplementary examinations shall be conducted at a convenient time determined by the Academic Committee within the concerned academic year.

4.9.5 The pass mark for supplementary examination is a **"B"** irrespective of the score.

4.9.6 A supplementary examination paper fee of **TZS 20,000** must be paid for each supplementary examination paper provided to a student.

4.9.7 The fee must be paid in advance to the finance department to cover the University's expenses of providing a supplementary examination.

4.10 Postponement and Freezing of Studies

4.10.1 A student may, in extenuating circumstances postpone/freeze studies.

4.10.2 For an undergraduate student who for reasons stated above is compelled to postpone/freeze studies, shall request to do so in writing, to the Chairman of the Academic Committee through the Dean of Students, the Dean of the relevant Faculty and the Deputy Provosts for Academic Affairs. Postgraduate students shall do so in writing through the relevant Dean or Director, as the case may to Chairman of the Academic Committee, through The Chairperson of the Postgraduate Committee, who shall table the matter in the Committee before recommending to the Chairman of the Academic Committee.

4.10.3 Request to postpone or Freeze studies shall be accompanied by authentic supporting documents, clearly describing, and showing evidence of the extenuating circumstances warranting Postponement or Freezing of studies.

4.10.4 A student may be allowed to postpone or freeze studies for a reason which in the opinion of the Academic Committee is strong enough to prevent her/him from pursuing studies effectively.

4.10.5 No student shall postpone studies without written permission from the Deputy Provost for Academic Affairs after the matter has been decided by the Academic Board and the Senate Chairman.

4.10.6 Such postponement shall be for a semester or an academic year as the case may be.

4.10.7 The maximum period for a student to postpone studies shall be one year in the case of programmes of normal longevity of up to 4 years and 2 years for programmes of more than 4 years duration.

4.10.8 The period of postponement shall not be counted towards the students' registration.

4.10.9 A student may also be allowed to postpone studies for failure to pay student fees, deposits, and charges.

4.10.10 On grounds of ill health provided a competent medical practitioner has recommended the postponement and approved by the University.

4.10.11 Re-admission for a student who postponed studies on the ground of ill health is subject to a recommendation by a competent medical practitioner and approval by the University.

4.10.12 Where practical, such a student shall be allowed to continue with his or her studies from the point at which he or she was when taken ill.

4.11 Leakage of Examinations

4.11.1 Definition

Any act which results in a candidate or candidates having access to, or knowledge of examination questions or of any unauthorized materials related to the examinations before the scheduled date and time of the examination shall amount to leakage of examinations.

4.11.2 Procedure for dealing with leakage of Examinations.

(i) Any person suspecting leakage of a test or examination shall immediately report to the Deputy Provost for Academic Affairs.

(ii) Where there are strong indications that an examination leakage has taken place, the Deputy Provost for Academic Affairs, in consultation with the Provost shall cancel/ withdraw the examination and order a fresh examination to be set and administered.

(iii) The Deputy Provost for Academic Affairs shall set up by a committee to investigate the circumstances surrounding the suspected leakage.

(iv) Then investigating committee shall submit its findings to the Deputy Provost for Academic

Affairs, who shall in turn table them before the Academic Committee and if necessary, the Senate.

(v) The Academic Committee shall then take appropriate action, and if need be, make appropriate recommendations to the Senate.

(vi) Where it is established that an examination leakage has taken place appropriate disciplinary action shall be taken against those found responsible for the leakage.

4.12 Instructions to Students and Invigilators

4.12.1 Candidates shall acquaint themselves with the instruction on the front page of the answer books/examination papers.

4.12.2 Candidates shall ensure that they write their registration/examination numbers, titles, and the paper number on the answer books, including the continuation sheets.

4.12.3 Registration Numbers will be issued and verified by the Deputy Provost for Academic Affairs.

4.12.4 Registration Numbers will be serialized in the following format: e.g., TUMA/KCMUCo/MD.2010/2011/TZ/0123

4.12.5 At all times during the examination, the registration numbers should be conspicuously placed on the desks.

4.12.6 Candidates without registration numbers authorizing them to sit for the examination will not be allowed to sit for the examinations.

4.12.7 No student shall be permitted to enter the examination room after the lapse of 30 minutes from the commencement of the examination. However, if a candidate arrives before the first half hour has passed; the Invigilator may use

his discretion in extending the time limit for the candidate provided no candidate has already left the room.

4.12.8 No student will be allowed to leave the examination room during the first or last 30 minutes, except in cases of absolute emergency. Between these times, students may leave the room and be escorted to known common toilets. Students shall however sign out on leaving the examination room and sign in when they re-enter the examination room.

4.12.9 Misreading the examination timetable will not be regarded as 'sufficient cause' for missing an examination.

4.12.10 No books, bags, notes, rough papers, and any other paraphernalia should be taken by the candidates into the examination room. Candidates are not allowed to bring their own log tables and calculators in the examination room unless there is an express provision otherwise in case of a particular paper. Any unauthorized materials should be handed over to the Senior Invigilator before the examination starts.

4.12.11 Invigilators shall have power to confiscate any unauthorized materials or aid brought into the examination room.

4.12.12 Invigilators shall have power to expel from the examination room any student who creates a disturbance in the examination room.

4.12.13 At the end of the examination, and on the instructions from the senior invigilator, candidates shall be required to stop writing and assemble their scripts. The students shall hand in his/her scripts to the invigilator and sign to that effect.

4.12.14 If, for any reason, such as sudden illness or other sufficient cause, a candidate is unable to

attend an examination he should report the circumstances to the Deputy Provost for Academic Affairs at the earliest possible moment before the start of the scheduled examination.

4.12.15 These instructions shall remain in force unless amended by the Senate upon recommendations of the College Academic Committee and the Senate sub-Committee for Academic and Curriculum Affairs (SCACA).

4.13 Appointment of External Examiners

4.13.1 The main purpose of inviting examiners from outside the institution or the department is to upraise the whole process of teaching, learning and assessment including the examinations and make sure they meet the required quality and minimum standards. The role of External Examiners is not to actively mark examinations.

4.13.2 Appointment of External Examiners (External Moderators) and Internal Moderators shall be done by the University Senate on the recommendation of the Academic Committee and Faculty/Academic Institute Board or the Postgraduates Committee, as the case may be.

4.13.3 External Examiners must be:-

(a) A Senior University Faculty of the rank of Senior Lecturer and above.

(b) External to the University (another University in Tanzania or outside Tanzania)

(c) Expert in the course/subject to be examined.

(d) An active researcher, with at least 3 publications within the last three years, retrievable and listed in the *Curriculum Vitae*.

4.13.4 The tenure of appointed External Examiner shall be three (**3**) consecutive years. Renewal may be done three (**3**) years later after the last period of serving as an External examiner at the University College.

4.13.5 Appointment of Moderators internal to the university will only be considered when external examiners cannot be engaged for valid reasons. Moderators shall 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.

4.13.6 External examiners and moderators' guidelines shall be similar. These shall be provided by the office of DPAA and appended to the appointing letter.

4.13.7 Departments must ensure that External Examiners' and Moderators' assessment of quality and standards in their courses/programmes is done at least once in an audit year.

4.13.8 If the current External Examiners are being invited for the last time, departments and Faculties shall start searching for new External Examiners to ensure their appointment within the first month of the following academic year.

4.13.9 External Examiners shall not have taught the subject to the students to be examined either as full time or part-time staff members of the University during the last four years.

4.13.10 After completion of their assessment, the external examiners and moderators shall immediately forward their reports to the DPAA

and copies to the Provost and Dean/Director of the Faculty/Institute under confidential cover.

4.13.11 The Dean of the Faculty or Director of the Institute shall then direct the respective department to discuss the report and provide reactions to the external examiner's/moderator's comments.

4.14 Functions of External Examiners

4.14.1 To Examine the Quality of Examination Papers

4.14.2 To read and grade Research Papers/Reports/ Dissertations/Theses.

4.14.3 Attend Examiners Board Meeting

4.14.4 Assess the course content and the programme to determine the scope, depth and breadth and national, regional, and global comparability.

4.14.5 Present a report on the examination to the Deputy Provost for Academic Affairs for presentation to the Faculty Boards and onward reporting to the Academic Committee.

4.14.6 To visit the Library/ Laboratory and give their advice regarding the Library Holdings/Laboratory Equipment in respect of the concerned programme.

4.14.7 To participate in, and grade Oral examination (viva voce) and Oral Defense of dissertations.

4.15 Marking and Moderation of Examinations

4.15.1 External Examiners shall review any script to ensure consistency in marking, internal examiners shall be required to have a proper marking scheme.

4.15.2 The Head of Department, as the chief Internal Examiner, shall ensure harmonization of marking between internal Examiners.

4.15.3 After marking all the scripts, Internal Examiners shall enter Continuous assessment and the end of the year examination marks on the individual course mark sheets.

4.15.4 All Internal Examiners are required to submit results, scripts, projects and assessment materials and records to the head of departments at least 24 hours before viva voce examinations are conducted.

4.15.5 Staff members failing to meet the set examination deadlines without good cause, shall be subjected to disciplinary action according to prevailing regulations.

4.15.6 The Head of Department shall give the scripts together with copies of the question papers, final marking schemes and mark-sheets to the External Examiner on arrival. Records of continuous assessments and projects shall be kept by the Head of department and be made available to the External Examiners.

4.15.7 The External Examiner shall normally be expected to review extreme cases.

4.16 Processing of Examination Results

4.16.1 Processing by Departments

(i) A meeting of the Department Board of Examiners shall consider the result and make recommendations to the Faculty Board of Examiners.

(ii) The External Examiners will be expected to attend the Departmental Board of Examiners'meeting.

(iii) The External Examiner shall provide a general overview examination quality and performance.

(iv) The final mark in any subject shall be derived from continuous assessments and the end of year examinations or Summative Assessment (SA).

(v) Unless otherwise approved by Senate, each course shall be graded out of a maximum of 100 marks.

(vi) Continuous assessments (CAT) or (Formative Assessment – FA) as approved by the Senate shall vary depending on the nature of the course.

(vii) The pass mark as approved by the Senate shall vary depending on the nature of the course in question.

(viii) Unless otherwise specified by Senate, the Examination grading system shall be as follows: -

(a) GRADING FOR DIPLOMA PROGRAMMES

MARKS (%)	**80 -100**	**65-79**	**50-64**	**40-49**	**0-39**
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
Remarks	**Excellent**	**Good**	**Satisfactory**	**Fail**	**Fail**

(b) GRADING FOR UNDERGRADUATE PROGRAMMES

Letter grade	**A**	**B+**	**B**	**C***	**D**	**E**
Percent	75 -100	70 – 74.9	60-69.9	50-59*	40-49	00 – 39.9
Grade Point range	4.5 - 5.0	4.4 - 4.49	4.0 - 4.39	3.0 - 3.9	2.0 - 2.9	00 - 1.9
Remarks	Excellent (Distinction)	Very Good (Credit)	Good (Pass)	Satisfactory (Pass)	Fail	Fail
Classification (Cumulative)	First Class	Upper Second Class	Lower Second Class	Pass	-	-

(This Grading system is applicable for 2020/21 admissions onwards only. For 2019/20 and earlier admissions, please

consult the old prospectus).

(i) Award of Distinction: To qualify for a Distinction, a candidate shall be required to achieve a minimum **GP of 4.4** (old) or **4.5** (Harmonized programme) in the subject or GPA of 4.4 (old) or 4.5 (Harmonized programme).
(ii) Award of Credit: To qualify for Credit, a candidate shall be required to achieve a minimum GP of 3.5 (old) or 4.4 (Harmonized programme) or minimum GPA of 3.5 (old) or 4.4 (Harmonized programme).
(iii) Award of Pass: To qualify for a Pass, a candidate shall be required to achieve a minimum GP of 2.7 (old) or 3.0 (Harmonized programme) or minimum GPA of 2.7 (old) or 3.0 (Harmonized programme).
(iv) The MD and DDS Degrees are NOT Classified

(c) GRADING FOR POSTGRADUATE PROGRAMMES

Letter Grade	A	B+	**B**	C	D	E
Marks	75 - 100	70 -74	**60 - 69**	50 - 59	40 - 49	0 - 39
GP	4.5	4.0	3.0	2.0	1.0	0
Remarks	Excellent/ Distinction	Very Good/ Merit	Good/ Pass	Fail	Fail	Fail

(i) Postgraduate degrees, in Health Science, including PhD are NOT Classified.
(ii) Award of Distinction: To qualify for a Distinction, a candidate shall be required to have achieved a minimum **GP of 4.5** in a subject or **GPA of 4.5**.
(iii) Award of Merit: To qualify for Merit, a candidate shall be required to have achieved a minimum **GPA of 4.0** in a subject or a minimum **GPA of 4.0**.
(iv) Award of Pass: To qualify for a Pass, a candidate shall be required to have achieved a minimum **GPA of 3.0** in a subject

or a minimum **GPA of 3.0**.

NB: Unless otherwise stated, the final decisions are made at the end of the audit year, and: -

(i) The Semester Grade score shall be rounded up/down to one decimal place.
(ii) The Final Grade score and GPAs shall be truncated to one decimal place.
(iii) After the Departmental Board of examiners' meeting, all relevant examination mark sheets shall be accurately completed, checked, and signed by the Internal Examiner, the Head of Department, the Dean (where applicable) and the External Examiner(s).
(iv) All documents tabled during Departmental Boards of Examiners Meeting shall be reclaimed from members of the Board at the end of the Meeting.
(v) Internal Examiners and External Examiners shall not divulge marks to students.
(vi) All examination results are confidential until the Faculty Boards of Examiners consider them.

4.16.2 Processing by the Faculty Committee of Examiners

(i) A meeting of Faculty Board of Examiners shall be convened to consider the results and recommendations from the departmental Committee of Examiners and to make recommendations to College Academic Committee which shall send its recommendation to the Senate.
(ii) The External Examiners will be expected to attend the Faculty Committee of Examiners.
(iii) All documents tabled during the Faculty Committee of examiners meeting shall be reclaimed from members of the Committee at the end of the meeting.

(iv) Members of the Faculty of Examiners shall not divulge marks, or any of the Committee's deliberations to any student and unauthorized persons.

(v) The Faculty Committee of Examiners shall forward the provisional results and recommendations to the College examination Committee meeting and finally to the College Academic Committee for final decision and to Senate for approval.

4.16.3 Processing by the College Academic Committee

(i) All examination results shall be presented to College Academic Committee after the Faculty/Institute Committees of examiners meeting and College Examination committee meeting.

(ii) All examination results are not official until approved by the College Academic Committee or Senate.

(iii) College Academic Committee may accept, reject, vary, or modify results and or recommendations from the Faculty and Institutes Committees of Examiners.

(iv) No department or Faculty has the authority to alter examination marks/results once the Academic Committee and the Senate has approved these.

(v) The results for passing candidates shall be released in transcript form indicating percentage marks as well as letter grading in accordance with the grading system shown above in **section 4.14.1.**

(vi) Lost transcripts will be replaced at a fee of **TZS 20,000/=**.

4.16.4 Publication of Results

(i) All the Constituent College Academic Committee Reports on examinations shall be submitted to the Senate.

(ii) The Senate shall direct or recommend to the College Academic Committee on the general conduct of examinations in the Colleges.

(iii) The Senate shall lay down general policies on involvement of external examiners and conduct of examinations in the Constituent Colleges.

(iv) The regulations/procedures in moderation of examinations in the Colleges shall be approved by the Senate.

4.17 Release of Examination Results

(i) Final results of all students in every final examination shall be subject to review by the Faculty Board of Examiners, College Academic Committee and University Senate.

(ii) Disclosure of the examination results shall be made by the College Academic Committee not later than four weeks after the end of the examinations.

(iii) The results shall be published, showing only the student examination number (for identification) and the letter grade obtained in the examination.

4.18 Student Progression from Year to Year

4.18.1 Undergraduate Programmes

(i) Final student disposal shall be undertaken at the end of semester two (**2**) of the academic year.

(ii) Professional conduct, logbook, field work attachment report, practical, and dissertation assessment will also determine whether a student will proceed to the subsequent year of study or graduate.

(iii) A student passing in all prescribed semester courses shall proceed to the subsequent year of study or graduate.

(iv) Full time undergraduate students are required to have attained a minimum **GPA of 3.0** before proceeding to the next year of study.

(v) A candidate who passes the examination with a B grade or higher will be declared to have passed the examination.

(iv) A candidate who scores a **GPA of 2.0** or higher but fails in up to 2 courses or modules at the end of a semester or audit year shall be required to supplement in the failed courses or modules.

(v) A candidate will be considered to have passed a course after passing all modules/rotations of the respective course or the whole course.

(vi) A candidate who fails in **three (3) or more courses** during semesters one (1) to two (2) for a four to six (4-6) semester programmes, and semesters one (1) to four (4) for eight to ten (8-10) semester programmes, shall be discontinued from studies regardless of GPA. To pass a course a candidate must pass all the modules in that course, or the whole course.

(vii) A candidate who fails all courses shall be discontinued from the studies irrespective of the GPA.

(viii) A candidate may be allowed to sit for *a second supplementary* examination in failed course(s) if he or she has after or before the first supplementary has or has attained a **GPA of 2.7** or above.

(ix) No candidate shall be allowed to repeat any year of study on academic grounds, except with special permission or approval of the Senate upon recommendations of the Academic Committee and the Faculty or Academic Institute Board and the Postgraduate Studies Committee for postgraduate programmes.

(x) 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 **360** total credits.

(b) An undergraduate degree programme may have more than the minimum credits stated in subsection

(xii) (a) above depending on its duration.

(xi) Students may also be discontinued from studies due to the following reasons:

(a) Failure to attend regular scheduled examinations or tests unless caused by unavoidable extenuating circumstance.

(b) Committing examination/academic irregularities

(c) Committing disciplinary offences as described in the KCMUCo and "Tumaini University Makumira Student's by-laws.

(d) Absconding from studies;

(e) Failure to attended at least **80%** of the scheduled semester class period for each course.

(f) Missing more than **10** consecutive days of class

(g) Failure to pay student fees, deposits, and charges.

(h) Ill health if not recommended by a recognized medical practitioner.

4.19 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 in the Learning and Examination Management System platform current in use and backed accordingly.

(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 shall 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 of 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 Faculties, Directorates or Academic Institutes' Committees/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 DPAA 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 labelled 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 DPAA 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 Faculties/Institutes and Departments.

(vi) Depending on pertaining circumstances as privacy of information contained, cost involved and environmental considerations, the DPAA may with respect to any batch due for disposal, direct: -
   (a) The disposal by shredding and then disposed of shreds by either **incineration** or selling to companies for re-cycling; or
   (b) Used examination papers shall be **incinerated** burnt to completion.

(vii) The DPAA 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 a 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 DPAA 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.

4.20 Specific Examination Regulations for Postgraduate Studies

4.20.1 Master of Public Health (MPH) Programme

(i) Continuous Assessment Tests (CATs) will be at the end of each module. Each module shall be passed independently.

(ii) To pass a module a candidate must attain a “B” grade or higher.

(iii) A pass mark of 50% is required for each module.

(iv) No student will be allowed to sit for a modular examination if he/she did not attend more than **80%** of the contact hours in that module.

(v) Students will be allowed to supplement a failed module only once.

(vi) A student will supplement a module if she/he scored less than **50%.**

(vii) A student will be allowed to do a maximum of **three (3)** supplementary examinations in failed modules in one course.

(viii) A student will be discontinued if: -

(a) She/He has failed a supplementary examination.

(b) Has failed repeated modules/courses or dissertation examinations.

(c) Has failed more than **three (3)** modules in a course, irrespective of passing another supplementary.

(ix) All module assessment work must be submitted by the specific dates or a penalty of **5%** per day will be deducted from overdue work, or if the penalty period of five days is exceeded the candidate will be deemed to have failed that assignment.

(x) There will be a Dissertation assessment and it must be passed independently of course work *(see dissertation regulations).*

(xi) A postgraduate student committing a professional misconduct shall be discontinued from studies.

4.20.2 Master of Science (MSc) Programmes

(i) In order for a candidate to be allowed to sit for the final module examination he/she shall have attended at least **80%** of the allocated class hours of the respective module or course.

(ii) If due to genuine reasons the student could not sit for a scheduled examination, the student shall be allowed to sit for a special (individual) examination anytime during the year of study.

(iii) Each module or course, as the case may be, shall be examined after its completion through a written

and/or practical examination or any other relevant assessment method which is aligned to the learning outcomes of the module or course.

(iv) There shall be a Continuous Assessment Test CAT (Formative Assessment – FA) and the average score for CAT/FA for each module/course shall constitute **40%** of the total end of module/course score.

(v) The final module/course assessment (examination) shall constitute **60%** of the total end of module/course score.

(vi) Pass mark for all the modules, graded individually, shall be **50%** (B grade) and students must pass all the modules in a course.

(vii) A student who fails less than one third (**33%)** of the total coursework credits shall be allowed to supplement.

(viii) If a student fails a module/course, he/she shall be allowed to sit for a supplementary examination any time before the end of the academic year. If a student fails a supplementary examination, he/she shall be discontinued from the programme.

(ix) A student who fails several modules, equal or more than one third **(33%)** of the total coursework credits shall be **discontinued from studies**.

(x) The decision on supplementary examination, discontinuation or repetition of a year shall be made by the Academic Committee after recommendations by the Faculty or Institute Board, anytime during the academic year.

(xi) A student repeating a year and failing more than **one module** he/she in a failed course shall be discontinued immediately.

(xii) There shall be a Dissertation assessment and it must be passed independently of the course work *(see dissertation regulations)*.

(xiii) A postgraduate student committing a professional misconduct shall be discontinued from studies.

4.20.3 Master of Medicine (MMed) Programmes

(i) Assessment methods for the Master of Medicine Programmes shall consist of logbooks, quarterly reports from supervisors, written examinations, oral examinations, clinical examinations (OSCE, MinCEX, Observation of procedures and attitudes and rating, Multisource rating), and dissertation including viva voce.

(ii) The Foundation courses modules 1 - 5, and Common Basic Sciences Modules 6 -10 in semester 1 & 2 shall be assessed - by a **Module Assessment Test (MAT)**.

(iii) The MAT 1-10 shall consist of two hours and thirty minutes (2:30) paper of 100 marks. MAT for clinical examination will consist of one hour paper of 100 marks which has 1 Long Essay Question – LEQ (1 x 15 = 15 minutes and 1 x 30 = 30 marks), two (2) Short Essay Questions – SEQ (2 x 10 min. = 20 minutes and 2 x 10 = 20 marks) and 25 Multiple Choice (25 minutes and 25 x 2 = 50 marks).

(iv) At the end of the semesters 2, 3, 4, 5 and 7, each resident shall be assessed by an **End of Semester Assessment Test (ESAT**) (1, 2, 3, 4 and 6; see above schedule), consisting of the *following three elements: -*

(a) A written two (2) hours paper, consisting of six (6) SEQ and three (3) LEQ's (30%).

(b) A clinical examination, consisting of one long case and three (3) short cases (30%).

(c) Assessment of the performance as recorded in the Logbooks over the past semester.

(d) Both qualitative and quantitative elements shall be assessed using a format provided by the College (40%) (see ANNEX 1).

(v) At the end of semester 6, students shall sit for **ESAT 5** which consists of the following three elements:
   (a) A clinical examination, consisting of one long case and there **(3)** short cases (**20%)**
   (b) Assessment of the performance as recorded in the Logbooks and progress reports over the past semester **(10%)**
   (c) Assessment of the professional competency and attitude over the past semester **(10%)**
   (d) Completed, defended, and accepted dissertation **(70%)** *(See dissertation regulations)*.

(vi) At the end of semester 6 the dissertation shall be assessed according to the system as outlined in the Dissertation Regulations section. Each resident shall be required to present and defend the dissertation during a viva voce (Oral) examination.

(vii) At the end of semester 8 (end of 4th year of training) residents must appear for a Final University Examination, consisting of one three (3) hours written paper (consisting of 10 SEQ's and 4 LEQ's, all of them structured as problem posing), a clinical examination (one long case and six (6) short cases) and an oral examination of 30 minutes. The written examination shall carry **40%** of the marks, the clinical/practical **50%** and the oral examination **10%. *Residents must pass both the written and the clinical components separately***.

(vii) A candidate who passes the examination with a B grade or higher will be declared to have passed the examination.

(xi) In semester one all MMed Year I students will do foundation courses (MAT 1-5) and Basic Sciences (MAT 6-10), then ESAT 1 and ESAT 2 specific for the specialty concerned, shall be assessed within 10 days after last day of the **Module by a Module Assessment Test (MAT)**.

4.20.4 Regulations for Assessment & Disposal of Students

(i) Each MAT, each ESAT, the Dissertation and the Final University Examination shall at the end of semester eight (8) must be passed separately.

(ii) Assessments in some departments, like Radiology and Pathology may be different from those in other departments: e.g., film reading and slide reading and reporting as clinical cases.

(iii) Residents who have failed up to three (3) of the Foundation courses (MAT 1-5) and up to three (3) of the Biomedical Sciences (MAT 6-10), at the end of semester one shall be allowed to supplement each at the beginning of semester two or earlier.

(iv) Residents who fails four (4) or more of the Foundation and Biomedical Sciences shall be allowed to repeat the failed courses when next offered.

(v) Students who fails **50%** of the foundation courses and **50%** of the biomedical sciences, shall be discontinued from studies.

(vi) Residents who have failed at the end of semester two (2) up to two (2) of MATs 11 and 12 and ESAT 1, will be required to sit for supplementary MATs at the end of semester two (2) or ESAT before the start of next academic year. Grades obtained for MATs and ESATs in the first and second semesters of a year shall be accumulated to determine the fate of the candidates.

(vii) Progression from Year to Year:

  (a) Candidates are required to have attained a GPA of at least **2.0** before proceeding to the next year of study.

  (b) A candidate who scores a **GPA of 2.0** or higher but fails in four **(4)** or less elements in modules 1 to 10, at the end of the semester

shall be required to supplement in the failed modules.

(c) A student who scores a **GPA less than 2.0** shall be discontinued from studies.

(d) The clinical components of each of the ESATs shall be passed separately.

(e) A student who fails **50%** of the supplementary examinations shall repeat a year, and those failing **40%** or less shall repeat the failed courses when next offered.

(f) A candidate may be allowed to sit for a second supplementary examination in failed course(s) if he/she has attained a **GPA of 2.7** or above.

(g) A student who scores a **GPA of 2.0** or higher, but fails **50%** or more of Module 1-10, shall be discontinued from studies.

(h) A student who fails all courses shall be discontinued from studies irrespective of the GPA.

(i) A student who fails 50% of MATs and **50%** of the ESAT each year of studies, regardless of passing supplementary MATS, will be discontinued from studies.

(j) In case a student fails the supplementary MATs, or ESAT, she/he will be required to repeat the failed courses when next offered.

(k) A repeating student who fails one examination may be considered for a third supplementary examination and if she/he fails the third supplementary shall be discontinued from studies.

(l) A student who passes a supplementary examination shall be awarded a grade of **"B"** grade.

(m) No candidate shall be allowed **to repeat any year of study** on any grounds, without

approval from the College Academic Committee and Senate.

(n) Apart from formal academic assessments, professional assessments based upon logbooks and quarterly progress reports including professional behavior shall also determine whether a student shall be allowed to proceed to the next year of the programme. A candidate who scores a **"D"** or less in Professionalism assessment, shall be required to repeat a year, despite passing all MATs and ESATs.

(0) Marks obtained during the MATs of the Basic Science Modules 1 – 12 and ESATs 1 – 6 at the end of semesters 2 – 7, shall be include in the grade for the final University Examination at the end of Year Four (4). The course work for all Ten (10) MATs and Six (6) ESATs from semesters 1 – 7, and the Dissertation shall contribute a total of 60% to the Final Grade (12 MATS = 275; 6 ESATs = 600 and Dissertation = 10000) and the final University Examination at the end of Semester 8 will contribute **40%** of the Final Grade.

(p) A candidate who fails the Final University Examination at the end of Year 4, shall be allowed to appear for a supplementary examination at a point in time as the Academic Committee may determine, provided that the candidate's period of MMed programme registration shall not exceed Ten (10) Semesters or Five (5) years.

(q) Any MMed student committing a professional misconduct shall be discontinued from studies.

4.20.5 Regulations and Guidelines for Dissertations

(a) Development of Dissertation Research Proposals

(i) All Master and PhD students shall write a Dissertation proposal following the format prescribed in the Postgraduate and PhD handbook, guided by the relevant department, which will also approve the supervisors of the student.

(ii) Once the proposal is developed it shall be presented the relevant department prior to submission of the proposal to DPS for ethical clearance. The department shall guide the student and suggest changes and improvements to be made by the student. The department and supervisors shall make sure the student has made corrections and improvements given by the department to their satisfaction.

(iii) The postgraduate student shall clear and pass the proposal development phase before embarking on the next stage which is data collection.

(b) Writing up the dissertation

(i) The student shall write the dissertation manuscript following the relevant format prescribed in the Handbooks.

(ii) Instructions on binding of the hard copies of finally corrected dissertations are indicated in the postgraduate handbook.

(iii) Students shall submit completed dissertations as per guidelines below:

- Dissertation reports shall be submitted to the respective Head of Department, via the supervisor (The Principal supervisor) three **(3)** months before commencement of end of semester examinations.
- Processing of the completed dissertation reports is the responsibility of the Head of

the relevant department through the Dean/Director, DPS to DPAA who will submit them to the external examiners at least two months before the end of semester examinations.

(iv) The student shall submit the initial completed dissertation as follows: -

- Four spirally bound copies of the dissertation shall be submitted to Dean/Director of the Faculty/Institute via the supervisor and Head of Department.
- The Faculty Dean or Institute Director shall send one copy to the approved internal examiner.
- The DPS after approval by the DPAA shall send one copy to the approved external examiner who shall examine and give a report per Terms of Reference provided by the Office of DPAA to all examiners of dissertations.
- The student has the duty of ensuring that the dissertation is copy-edited before submission.

(v) Before submission of the dissertation for marking, concurrently, the Master student, supervisors and the Head of department shall ensure that the student has written three (**3**) manuscript based on his/her research results intended for submission in peer-reviewed journal, the journal being acceptable or recognizable by the respective University.

(vi) The students and supervisors shall also show evidence that all other remaining student's work is in manuscripts form to be further developed by the candidate in consultation with his/her supervisor(s) towards publication in peer reviewed journals.

(vii) The PhD students shall be required to publish as prescribed in the PhD Handbook.

(viii) No Master or PhD candidate shall be allowed to sit for the final examination without evidence of fulfilling the requirement of publications in regulation (v) above.

4.20.6 Assessment of Dissertations

All dissertations shall be assessed quantitatively and qualitatively, first based on the written document, followed by *viva voce* examination.

(i) Dissertation shall be considered as an independent 4-stage course, with continuous assessment (CA), which shall also be the Formative Assessment (FA) as well as Summative Assessment (SA) at the end. The following stages shall constitute assessment of the dissertations: -
   (a) Proposal development
   (b) Data collection and data analysis
   (c) Writing the dissertation
   (d) Defense of the dissertation (*viva voce*)

(ii) The student shall give at least one oral presentation during the proposal development and data collection/analysis phases in his/her department and assessed by the Department faculty.

(iii) Each stage above shall be assessed separately and shall be passed at grade B and above, before continuing to the next phase. The grading system recommended by standard, and guidelines shall be used in scoring each phase of the dissertation work as shown below: -

Letter grade	Marks range (%)	Qualitative value
A	75-100	Excellent/Distinction
B+	70-74	Very Good/Merit
B	60-69	Good/Pass
C	50-59	Fail
D	40-49	Fail
E	0-39	Fail

(iv) The final dissertation score shall be an aggregate of the individual formative and summative assessments of the four phases above. Contribution of each stage towards the final

dissertation score will be as indicated in the table below: -

Stage	Descriptions	Assessment	Marks (%)
1	Proposal Development	Formative (CAT 1)	20
2	Data collection and Data Analysis	Formative (CAT 2)	20
3	Written Dissertation	Summative (SA 1)	50
4	Defense (*viva voce*)	Summative (SA 2)	10
Total			**100**

(v) The final score of the dissertation shall be graded and given letter grades A-D described in sub-section **(iii)** above.

4.20.7 Proposal Assessment, Data Collection and Analysis

The proposal development, data collection and data analysis phases shall be assessed by a panel of senior faculty (at least two, including student's supervisor) in the department where the student is conducting his/her study. Results of phase 1 and 2 shall be kept at the respective department, and copies will be submitted to respective Faculty/Institute and DPS.

4.20.8 Assessment of the Written Dissertation

(i) Every written dissertation submitted shall be assessed by at least two Senior Faculty recommended by the department and appointed by the Faculty/Institute Board, DPS Committee, CAC, and Senate. One among these shall be the Internal Examiner of the dissertation.

(ii) The department shall recommend to the Dean/Director of the Faculty/Institute and Faculty/Institute Board, and onward transmission

to DPS Committee and CAC and approval by Senate. The external examiner of a dissertation may be the same external examiner appointed for the programmed during the academic year and shall fulfill the same requirements as the programme external examiner.

(iii) On rare occasions where it is not possible to get an external examiner from outside the University, a special permission to use a moderator from within the University but from other departments shall be sought from the Chairperson of the University Senate after approved by the College Academic Committee or its Chair on its behalf.

(iv) The examiner shall make sure the dissertation shows evidence that the candidate has made an original and significant contribution to knowledge. The problems addressed shall be clearly and precisely formulated. The materials and methodology employed must be adequate and appropriate. The results must provide good, controllable documentation. Tables, figures, and other illustrations must be appropriately presented. The conclusions drawn must be justifiable and emanating from the student's findings.

(v) The examiners shall ensure that selection of the literature is adequate and relevant; the references are current and appropriate; the presentation of the text is clear, logical precise and linguistically satisfactory.

(vi) The examiners shall submit their detailed reports on the dissertation within a period of one month from the date of receipt of the dissertation. If the reports are not received within one-month period, new examiners shall be appointed.

(vii) Besides quantitative assessment above, each examiner shall summarize his/her report on the quality of the dissertation by filling in the Summary

Form (See postgraduate handbook). The Head of department shall compile summary of examiners' report and submit to DPS through the Dean/Director of the relevant Faculty/Institute with a definite recommendation for one of the following actions: -

(a) The dissertation passes as it is.
(b) The dissertation passes subject to minor revisions to the satisfaction of the supervisor and Head of Department.
(c) The dissertation passes subject to major corrections and revisions as indicated in the examiners' report to the satisfaction of internal examiner and external examiner/ moderator.
(d) The dissertation is not accepted but may be re-submitted for re-examination by both internal examiner and external examiner/ moderator.
(e) The dissertation is rejected outright.

(viii) The student shall make changes to written dissertation as suggested by examiners and re-submits updated version of the dissertation in loose bound form to DPS Committee through the Head of Department and Dean/Director of the relevant Faculty/Institute.

(ix) A dissertation passed subject to minor revisions shall be submitted (error free) within one month from the date of the Senate's approval of dissertation results.

(x) A dissertation passed subject to major corrections shall be submitted for degree award within six months from the date of the Senate's approval of dissertation results.

(xi) A dissertation with major errors may be re-submitted for examination within nine months from the date of the Senate's approval of dissertation results.

(xii) A dissertation rejected outright cannot be re-submitted. A fresh different dissertation can be submitted for examination within nine months provided the maximum tenure allows of registration allows.

(xiii) A dissertation rejected by the examiners after re-submission shall not be accepted for re-examination at KCMUCo.

(xiv) A candidate who fails, without reasonable cause, to submit/re-submit his/her dissertation within the prescribed period shall be discontinued from studies.

(xv) Where the examiners are not in agreement in their overall recommendation after resubmission, DPS shall examine the case and recommend one of the following actions: -

(a) The recommendation of the External Examiner(s) be adopted.

(b) An additional independent examiner be appointed.

(c) The relevant Faculty/Department establish a panel to examine the candidate orally and make appropriate and firm Recommendations.

4.20.9 Dissertation Viva Voce Examination

(i) All postgraduate students after submission of dissertations, shall appear for *viva voce* examination. The total marks for the *viva voce* shall be **10** and scoring shall be based on: -

(a) Quality of oral presentation and power-point slides **(3 Marks).**

(b) Appropriate response to the questions of the panel **(4 Marks).**

(c) Knowledge of the study area **(3 Marks).**

(ii) The viva voce examination duration for a master's degree shall not exceed one hour allocated as follows:
   (a) Maximum of **20** minutes of presentation
   (b) Maximum **35** minutes of questions and answers
   (c) Maximum **5** minutes of deliberations

(iii) During viva voce the panel members shall ask questions primarily focused on the candidate's dissertation research area. Questions in peripheral areas may be asked if they help to establish the candidate's level of academic maturity on the subject matter.

(iv) The *viva voce* panelists shall be appointed and approved based on sufficient qualifications and scholarly experience in the dissertation research or related area.

(v) The *viva voce* panel shall be composed of:-
   (a) The Head of Department or his/her nominee (Chairperson; no voting power).
   (b) The External Examiner.
   (c) The Internal Examiner (shall not have guided the research).

(vi) As much as possible, the *viva voce* external and internal examiners shall be the same individuals that evaluated the written dissertation.

(vii) Supervisors of the candidate shall be invited in the panel as observers only. They cannot ask questions but can participate in the deliberations after the viva voce.

(viii) The *viva voce* panelist who did not receive a copy of the dissertation prior its submission to examiners shall be provided with the candidate's dissertation at least one week before the date of *viva voce*.

(ix) The function of the *viva voce* shall be to ascertain that the dissertation presented fulfils the following: -

(a) The dissertation is the original work of the candidate.

(b) The broader subject area in which the study is based is fully grasped by the candidate.

(c) Any weaknesses in the dissertation are adequately clarified by the candidate.

(d) A definite recommendation is made to the DPS whether the candidate shall be declared as passed or failed.

(x) Each member of the panel shall score the candidate and the average score of the marks will be recorded on appropriate from provided in the Postgraduates Handbook. The average marks for viva voce shall be **10%** of the total marks for dissertation.

(xi) At the end of the *viva voce* examination, the panel members shall sign a *viva voce* Examination Results Form (in the Postgraduate Handbook) obtainable from the DPS, giving a specific recommendation on the performance. This shall be submitted to the Chairperson of DPS Committee through the respective Dean/Director for processing.

(xii) The panelists of the *viva voce* shall strive to arrive at a unanimous decision on the candidate's performance. In case the panelists are unable to reach a unanimous agreement as to whether the candidate passes or fails*, a vote shall be taken to arrive at a decision*. A majority vote shall be required for passing the *viva voce* examination.

(xiii) The Final determination of the students' fate shall be made in conjunction with specific Regulations for each programme ***(Section 4.21)*****.**

(xiv) The final decision on the award of the higher degree shall be made by Senate on the recommendation by the College Academic Committee.

(xv) The DPS and the Dean/Director of the faculty/institute shall appoint one senior and conversant administrative officer to

take Minutes of the Defense, clearly document and preserve.

4.20.10 Final Submission of Dissertation

(i) After defense the student shall attend all corrections recommended by examiner. The student shall submit four **(4)** copies of fully bound dissertation and a soft copy of the whole dissertation to the Dean/Director for transmission to the Chairperson, DPS Committee. The candidate may wish to print extra copies for own use. The deadline for submission of the error free dissertation shall be on the 15th of October of each year to give adequate time for names of passing students to be recorded in the graduation book ready for printing.

(ii) Each copy shall be bound, and the spine shall be embossed in gold, bearing: -
   (a) The surname and initials of the candidate.
   (b) The degree for which the dissertation has been submitted.
   (c) The year of degree award.
   (d) The writing on the spine shall read from the bottom to the top.
   (e) The title of the work shall be printed in gold letters on the front cover of the bound volume.

(iii) Additional advice on the binding shall be sought from the Directorate of Postgraduate Studies, KCMUCo.

4.21 Regulations for MMed Dissertations

The regulations for MMed dissertations shall follow the General Dissertations regulations **(*Section 4.20.5*)** above, but in addition specific issues related to MMed Programmes shall be considered: -

(i) Before admission into semester seven (7) of year four (4), every KCMUCo resident shall have submitted a dissertation. The dissertation shall be assessed by external and internal examiners and given score. The candidate shall appear for a viva voce and defend the dissertation orally, and again given a score (as stipulated in section 4.20 above.

(ii) The written dissertation assessment by internal and external examiners shall constitute **60%** of the dissertation score. The viva voce panel's assessment shall constitute the remaining **40%** of the dissertation mark.

(iii) After the viva voce, an average score shall then be computed to include that of the external and internal examiners, and the panel to get an average numerical score that shall be translated into a letter grade *(See section 4.20).*

(iv) In computation of the dissertation score, where there is a conflict between external and internal examiners assessment, the external examiners assessment shall override, except if stated differently in section 4.20). **The passing grade for dissertation is a "B"**.

(v) If the candidate fails dissertation with minor revisions, he/she shall be allowed to proceed to semester seven (**7**) of fourth (**4**) year, while correcting the errors, until it is errors free. The Resident shall be required to present the corrected dissertation during the end of year University dissertations defense. If the student fails the dissertation again, he/she shall not pass the programme and shall be required to revise the dissertation and award of the Degree shall be subject to submitting an error free dissertation and approved by Senate before the date of graduation. If she/he demonstrates poor progress she/he shall repeat a year, provided she/he has not exhausted

the maximum tenure of ten (10) semesters of Registration.

(vi) A resident who fails dissertation with major errors, requiring going back to collect additional data, or start a new research topic, shall not be allowed to proceed to semester seven (7) of year four (**4**). Such a student shall repeat a year and assigned a new supervisor. Should the resident fail to progress and maintain poor progress, despite changing the supervisor, she/he shall be discontinued from studies.

(vii) Residents finalizing the programme in semester eight (8) shall be assessed through final clinical and written University examinations in all domains of competency. *(For Details of dissertation assessment se the section on Dissertation assessment for MPH, MSc and MMED).*

(viii) All MMed Residents must submit the compulsory "annual programme evaluation by residents" not later the end of June of the final year.

(ix) Disposal of MMed students shall be implemented as follows: -

(a) Residents are required to pass all the MATS and ESATs to be allowed to proceed to the subsequent year of training.

(b) A resident who fails up to 3 MATs in semester 1 will be allowed to sit for a supplementary exam in each of the failed modules

(c) A resident who fails up to 3 (>3) MATs in semester 1 will be required to repeat the year to retake the modules when next offered.

(d) If a resident fails a supplementary MAT or ESAT in semester 3 will be required the year of stud\A repeating candidate who fails MAT or ESAT will be discontinued on academic grounds

(e) If a candidate fails 2 ESATs each year regardless of having passed supplementary shall be discontinued.

(f) A candidate who fails the Final University Examination at the end of year 4, shall be allowed to appear for a supplementary examination provided the candidate's period of MMed programme registration does not exceed 5 years.

(g) To be awarded a master's degree of the respective MMed programme of Tumaini University Makumira, the candidate must have completed and passed the course work, dissertation, and Final Examinations within the stipulated time.

4.22 Regulations for MPH and MSc Dissertations

All dissertations shall be assessed first based on the written document, followed by viva voce assessment (oral defense).
The regulations for MPH and MSc dissertations shall follow the General Dissertations regulations (*Section 4.20.5*) above, but in addition specific issues shall be considered: -

(i) Examiners of the dissertations: -

(a) There shall be one External Examiner from outside the University College who is a Senior Lecturer and above and an expert in the field of the research topic.

(b) In the absence of an external examiner, there shall be four (**4**) internal examiners and one of them (not the supervisor) shall have been appointed by Senate as the Moderator, independently from the other internal examiners.

(c) The supervisor of the dissertation and two (**2**) to three (**3**) qualified senior academic staff members of KCMU College conversant with the subject of the dissertation shall be in the examination panel.

(d) The supervisor(s) shall not be part of the examiners and shall not ask questions or give

any marks for the written nor the oral defense of the dissertation(s). His/her role shall be that of an observer only.

(ii) Assessment of the dissertations:
   (a) The dissertation(s) must be accepted and approved by the supervisor(s).
   (b) The dissertation(s) shall be made available to the appointed External Examiners at least three (3) months before the dissertation(s) defense date.
   (c) The External Examiner shall be required to submit a written report to the DPAA within a period of three (**3**) weeks from the date of receiving the dissertation(s).
   (d) The appointed internal examiners shall at the same time receive the written dissertation(s) to prepare themselves for the viva voce.

(iii) Viva voce assessment (oral defense): -
All candidates shall appear for a viva voce examination (oral defense) as prescribed under section 4.20 above.

(iv) Final grade: -
   (a) The results of the assessment by the External Examiner(s) shall be reported to the panel of examiners after the viva voce and shall carry **60%** of the final grade.
   (b) The common grade reached by the assessment panel during the viva voce (without the supervisor's) shall carry the remaining **40%** of the final grade.

4.23 Appeal for Failure in Examination

(i) Only appeals for unfair marking, wrongful computation of marks or grades shall be entertained. The appeal

must be lodged within **7 calendar days** (weekend inclusive) from the date of releasing the results.

(ii) The Investigation Committee of the College Academic Committee shall make the necessary investigation and report to the College Academic Committee.

(iii) The College Academic Committee shall deliberate and decide on the matter. The report will be submitted to the SCACA/Senate for final verdict.

4.24 Appeal Fees

All appeals shall be accompanied by non-refundable appeal fee of twenty thousand shillings **(TZS 20,000/=)** for undergraduate and thirty thousand shillings (**TZS 30,000/=)** for postgraduate in respect of Tanzanian students or twenty-five dollars **(USD 25)** by Money Order in respect of foreign students.

4.25 Calculation of GPAs and Classification of Degrees

(See also section 4.16)

(i) Candidates must pass the courses before they are awarded the degrees.

(ii) Classification of awards will vary depending on the nature of the course concerned, but MD and Postgraduate degrees are not classified.

(iii) **Grade Point Average:** Courses shall be weighted by multiplying the points associated with the final grade of a given course by the number of credit hours assigned to that course. A student's overall performance is calculated by dividing the total number of credit points of all courses taken by the total number of course credit hours taken:

Grade Point Average (GPA) =

$$\frac{\textit{Weighted Total Points for all Courses Taken}}{\textit{Total Number of Course Credit Hours Taken}}$$

(iv) The letter grades shall be assigned grade points (GP) in accordance with the raw marks attained, as shown below for undergraduate and postgraduate programmes in Table (a), and (b) respectively: -

(a) Grading system for undergraduate programmes

Letter Grade	A	B+	B	**C**	D	E
Marks	75 - 100	70 -74	60 - 69	50 - 59	40 - 49	0 - 39
GP Range	4.5 - 5.0	4.4 - 4.49	4.0 - 4.39	3.0 - 3.9	2.0 - 2.9	00 - 1.9
Grade point	5.0	4.4	4.3	3.0	2.0	1.0
Remarks	Excellent (DISTINCTION)	Very Good (MERIT)	Good (CREDIT)	PASS	Fail	Fail

(b) Grading system for postgraduate programmes

Letter grade	**A**	**B+**	**B**	**C**	**D**	**E**
Marks (%)	75-100	70-74	60-69	50-59	40-49	0-39
GP range	4.4 – 5.0	3.5 – 4.3	2.7 – 3.4	2.0 – 2.6	1.0 – 1.9	0.0
Grade Point	5	4	3	2	1	0
Remarks	Excellent (DISTINCTION)	Very good (CREDIT)	Good (PASS)	Fail	Fail	Fail

(a) Approved courses given for each degree shall be appropriately weighted in terms of credits.

(b) To get the Score for each course, the grade points are multiplied by the number of credits of the course as in 4.25.3.

(i) 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 4.21.3

(ii) The average score (GPA) shall be computed by dividing the total score in 4.25.3 by the total weight obtained.

(iii) Except for MD, and DDS which are not classified, the final degree classification for other degrees shall be as indicated in the table below: -

Classification of other Bachelor's Degrees

Class	**First Class**	**Upper Second**	**Lower Second**	**PASS**
Letter Grade	A	B+	B	C
GPA Range	4.5 - 5.0	4.4 - 4.49	4.0 - 4.39	3.0 - 3.9

(v) Grading and Classification of Diploma Programmes
The Grading of Diploma Programmes shall be as shown below:

Marks (%)	80 –100	65 – 79	50 – 64	40 – 49	0– 39
Letter grade	**A**	**B**	**C**	**D**	**E**
GP range	4.0 – 5.0	3.0 – 3.9	2.0 – 2.9	1.0 – 1.9	0.0 – 0.9
Remarks	Excellent (DISTINCTION)	Good (CREDIT)	Satisfactory (PASS)	Marginal Fail	Fail

(a) No diploma of the KCMUCo shall be classified except with the special permission of Senate and upon recommendations of the Academic Committee and Board of a relevant Faculty or Academic Institute.

(b) Where the Senate grants special permission for classification of a diploma, the provisions of

regulation 4.21.3 shall apply subject to such necessary modifications, variations and conditions as the Senate may impose or prescribe.

(vi) Postgraduate and PhD Degrees in Health Sciences and Dentistry are not classified. For other programmes the classification of a postgraduate award shall be according to the table below: -

Class	Score (%)	Letter Grade	Grade Point	Grade Points Range	Remarks	Class
First	75 - 100	A	5	4.5 – 5.0	Excellent (Distinction)	First
Second	74–70	B+	4	4.0 – 4.4	Very good (Merit)	Second
Pass	60–69	B	3	3.0 – 3.9	PASS	Pass

4.26 Degree Award

(i) The Board of Examiners in a Faculty or Academic Institute, upon its satisfaction that the standard required under relevant regulations for the award of a degree, diploma, or other award has been attained by a candidate in university examinations, may recommend to Senate through the Academic Committee that such degree, diploma or other award be conferred upon or granted to such successful candidate.

(ii) The Senate may approve conferment of degrees and grant diplomas or other awards of the University to students who satisfy the relevant requirements and are recommended for such conferment or grant by the Board of Examiners in a Faculty or Academic Institute and Recommended by the **College Academic Committee.**

4.27 (a) Policy Governing Loss of Certificate

In case of loss, total or partial destruction of the original certificate or a copy thereof, the University College shall recommend to the Chairman of the Senate, issue of a copy or another certificate on condition that:

(i) The applicant produces an affidavit and Police Report.

(ii) The certificate so issued shall be marked **COPY** across it and shall be issued only once.

(iii) The replacement certificate will not be issued until the period of 6 months from the date of such loss has elapsed, or as may be directed by the Senate; 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 (cuttings from two widely circulated News Papers) 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;

(iv) A fee of **TZS 20,000/=** in respect of Tanzania student or **USD 30**: - in Money Order or electronically, in respect of foreign students, or such other fee as may be prescribed from time to time by the University College, shall be charged for the copy of certificate issued.

4.28 Aegrotat Degrees

Students 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 College for the award of an aegrotat degree, in accordance with the following regulations:

(i) Students who have completed such portion of the examination as shall be determined by the Faculty or Academic Institute Board are eligible to apply for an aegrotat degree.

(ii) Applications from, or on behalf of, students must reach the office of the DPAA through the Dean of the Faculty or Director of an Academic Institute within the period of the examination, and shall be accompanied by a report obtained, from the Medical Officer approved by the College.

(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 shall have qualified him/her for the award of the degree PROVIDED that only students 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 honors 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 if they comply with the regulations for registration for such a degree.

4.29 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 College. It is given by the University 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: -

(i) Criteria for award - An undergraduate degree or diploma may be awarded posthumously if: -

(a) At the time of death, the student was enrolled in one of the academic programmes at the College;

(b) The student was in good academic standing and successfully completed all requirements for the degree or diploma to be awarded;

(c) A favorable recommendation for award of the degree or diploma is made by the student's Faculty or Academic Institute Board as the case may be, and the College Academic Committee;

(d) The Senate approves the award.

(e) The academic transcript of such students shall be marked *"Degree conferred posthumously"* and placed in the student's file. **The transcript shall not be released to any authority or person or persons**.

(ii) Conferral of a Posthumous Award

(a) A posthumous degree will customarily be conferred at the regularly scheduled graduation ceremony *in absentia* or in the presence of a member of the student's family or their representative.

(b) During presentation of the student's name, it will be mentioned that a posthumous award will be presented to him/her.

4.30 Conditions for Re-admission after Discontinuation

(i) Students who have been discontinued from a programme on grounds other than ACADEMIC (failing examinations/academic irregularities,

absconding from tests or examinations, abscondment of studies), OR disciplinary or CRIMINAL OFFENCES may at the discretion of the SENATE through the ACADEMIC COMMITTEE, be readmitted after at least ONE (1) year.

(ii) A student previously discontinued for failing to pay fees, deposit and other charges may be re-admitted after he/she has paid all the dues. Where practical, such a student shall continue with his/her studies from the point at which he/she was before discontinuation after observing all relevant section of TCU Standards and Guidelines (2019).

(iii) All other category of students shall have to re-apply for ad re-mission after **THREE** (3) years.

5.0 SYNOPSIS OF THE PROGRAMMES

5.1 Undergraduate Programmes

5.1.1 Diploma in Health Laboratory Sciences

Programme Description

The establishment of a Diploma programme in Health Laboratory Sciences at KCMU College is intended to raise the number of well-trained Laboratory Technologists that are in great demand to fill in various positions at the different levels of public health care and research system.

The graduates were expected to be competent enough for starting and running private laboratory services to complement the efforts of the government to provide quality laboratory services all over the country. This programme is under NACTVET and will be phased out once NACTVET acquire alternative centers to offer the programme in mid-level colleges offering Diplomas.

(a) Programme learning outcomes

Upon successful completion of the Diploma programme in Health Laboratory Sciences, the student will be able to: -

(i) Perform routine clinical laboratory procedures within acceptable quality control parameters.

(ii) Demonstrate technical skills, social behavior, and professional awareness.

(iii) Apply problem solving techniques to identify and correct procedural errors, identify instrument malfunctions, and seek proper supervisory assistance, and verify the accuracy of laboratory results obtained.

(iv) Operate and maintain laboratory equipment, utilizing appropriate quality control and safety procedures.

(v) Participate in activities which will provide current knowledge and upgrading of skills in laboratory medicine.

NORMAL LEARNING MATRIX FOR DIPLOMA IN HEALTH LABORATORY SCIENCES PROGRAMME.

YEAR 1 - SEMESTER 1								
Codes	**Title of module**	**Lecture**	**Tutorial**	**Assignment**	**Independent studies**	**Practical training**	**Total Hours**	**Total Credits**
ANA 1111	Anatomy	80	10	15	15	-	120	12.0
BIO 1112	Basic Chemistry and Biochemistry	40	10	15	15	-	80	8.0
LPS 1110	Laboratory practice and Safety	40	10	15	15	20	100	10.0
COM 1129	Communication Skills	40	10	15	15	-	80	8.0

CIT 1115	Computer skills and information technology	30	10	10	-	20	70	7.0
IST 1116	Instrumentation	40	10	10	-	10	70	7
BIS 1114	Medical Biostatistics	40	10	15	15	-	80	8
TOTAL HOURS AND CREDITS IN SEMESTER 1							**600**	**60.0**

YEAR 2 - SEMESTER 1								
Codes	**Title of module**	**Lecture**	**Tutorial**	**Assignment**	**Independent studies**	**Practical training**	**Total Hours**	**Total Credits**
PHY 1113	Human Physiology & Body fluids	80	10	10	10	-	110	11
IDT 1120	Immunology and immunodiagnostics	30	10	10	10	10	70	7
HEM 1122	Haematology	30	10	10	10	10	70	7
MIC 1123	Microbiology	30	10	10	10	10	70	7
HIS 1124	Histopathology and Morbid anatomy	30	10	10	10	10	70	7
CHE 1125	Clinical Chemistry	30	10	10	10	10	70	7
PAR 1126	Parasitology	30	10	10	10	10	70	7.0
MOL 1118	Molecular Biology	30	10	10	10	10	70	7.0
TOTAL HOURS AND CREDITS IN SEMESTER 2							**600**	**60.0**

YEAR 2 - SEMESTER 3

Codes	Title of module	Lecture	Tutorial	Assignment	Independent studies	Practical training	Total Hours	Total Credits
BTR 2321	Blood Transfusion	30	10	10	10	10	70	7.0
CHE 2325	Clinical Chemistry	40	10	10	10	15	85	8.5
HEM 2322	Haematology	40	10	10	10	15	85	8.5
HIS 2324	Histopathology/Morbid Anatomy	30	10	10	10	10	70	7.0
MIC 2323	Microbiology	40	10	10	10	15	85	8.5
PAR 2326	Parasitology	40	10	10	10	15	85	8.5
LMD 2327	Laboratory molecular diagnostics	30	10	10	10	10	70	7.0
FOF 2328	Foundation of faith	30	10	10	-	-	50	5.0
TOTAL HOURS AND CREDITS IN SEMESTER 3							**600**	**60.0**

YEAR 2, SEMESTER 4								
Codes	**Title of Course**	**Lecture**	**Tutorial**	**Assignment**	**Individual Studies**	**Practical Training**	**Hours**	**Credits**
BTR 2421	Blood Transfusion	30	10	10	10	10	70	7.0
CHE 2425	Clinical Chemistry	40	10	10	10	15	85	8.5
HEM 222	Haematology	40	10	10	10	15	85	8.5
HIS 2424	Histopathology/Morbid Anatomy	30	10	10	10	10	70	7.0
MIC 2423	Microbiology	40	10	10	10	15	85	8.5
PAR 2426	Parasitology	40	10	10	10	15	85	8.5

LMD 2427	Laboratory molecular diagnostics	30	10	10	10	10	70	7.0
FOF 2428	Foundation of faith	30	10	10	-	-	50	5.0
TOTAL HOURS AND CREDITS IN SEMESTER 4							**600**	**60**

YEAR 3 - SEMESTER 5								
Codes	**Title of module**	**Lecture**	**Tutorial**	**Assignment**	**Independent studies**	**Practical training**	**Total Hours**	**Total Credits**
CHE 3525	Clinical Chemistry	30	5	5	5	15	60	6
HEM 3522	Haematology	30	5	5	5	15	60	6
BTR 3521	Blood Transfusion	20	5	5	5	15	50	5
EHP 3517	Entrepreneurship	10	-	-	-	-	10	1
REM 3530	Research Methodology	20	5	30	5	-	60	6
MAN 3519	Health Laboratory Management	20	5	30	5	-	60	6
HIS 3524	Histopathology/Morbid Anatomy	30	5	5	5	15	60	6
PAR 3526	Medical Entomology	30	5	5	5	15	60	6
MIC 3523	Microbiology	30	5	5	5	15	60	6
	Practical sessions/ Laboratory rotation	-	-	-	-	120	120	12
TOTAL HOURS AND CREDITS IN SEMESTER 5							**600**	**60.0**

YEAR - SEMESTER 6								
Codes	**Title of module**	**Lecture**	**Tutorial**	**Assignment**	**Independent studies**	**Practical training**	**Total Hours**	**Total Credits**

MAN 3619	Clinical Laboratory rotation & Field Practice				40	200	240	24.0
CHE 3625	Clinical Biochemistry	30	5	5	5	15	60	6.0
HEM 3622	Haematology	30	5	5	5	15	60	6.0
BTR 3621	Blood Transfusion	30	5	5	5	15	60	6.0
HIS 3624	Histopathology and Morbid Anatomy	30	5	5	5	15	60	6.0
PAR 3626	Parasitology	30	5	5	5	15	60	6.0
MIC 3623	Microbiology	30	5	5	5	15	60	6.0
TOTAL HOURS AND CREDITS IN SEMESTER 6							**600**	**60.0**
TOTAL HOURS AND CREDITS FOR YEAR 1, 2, & 3.							**3600**	**360**

5.1.2 Diploma in HIV and AIDS Care

a) Programme description

This is a part time Diploma course consisting of six modules plus one elective. The course runs over a period of 18 months and is designed to meet the needs of qualified health care professionals and others engaged in HIV & AIDS care and management. The development of this programme is a response to the HIV & AIDS pandemic in Tanzania aimed at providing a comprehensive response through home and community-based care to people living with HIV & AIDS. The Diploma programme is designed for qualified health care professionals and other cadres working in local communities, to build and develop capacity for local management in meeting the challenges of HIV & AIDS

b) Programme Learning Outcomes

Upon successful completion of the Diploma programme in HIV and AIDS care student will be able to:

1. Assess the principles and practice of holistic palliative care for adults and children with HIV & AIDS

2. Analyze, utilize, and adapt strategies for developing and effective continuum of care in their own workplace.
3. Apply counseling and clinical skills for caring for adults and children with HIV & AIDS, which consider the associated, sensitive gender and cultural issues.
4. Conduct needs assessments and write project proposals with relevant and effective interventions that respond to specific identified needs of people with HIV & AIDS.
5. Demonstrate appropriate attitudes and skills for self and others to effectively monitor evaluate and direct home and community-based care programmes that are integrated into the health services and document and disseminate best practices for replication.
6. Develop capacity building through training of other multidisciplinary members in home and community-based care.

NORMAL LEARNING MATRIX FOR THE DIPLOMA IN HIV AND AIDS CARE PROGRAMME.

YEAR 1, SEMESTER 1							
Codes	**Title of module**	**Lecture**	**Tutorial**	**Independent studies**	**Practical Training**	**Total Hours**	**Total Credits**
DHA 101	Writing skills	2.5	0.5	1		40	4.0
DHA102	Community issues and needs assessment	4.99	1.01	1.5	16.5	240	24.0
TOTAL HOURS AND CREDITS IN SEMESTER 1						**280**	**28.0**

YEAR 1, SEMESTER 2							
Codes	**Title of module**	**Lecture**	**Tutorial**	**Independent studies**	**Practical Training**	**Total Hours**	**Total Credits**
DHA 103	Therapeutic Communication	3.49		1.01	16	205	20.5
DHA 104	Palliative care and rehabilitation	4.08	0.96	0.96	18	240	24
TOTAL HOURS AND CREDITS IN SEMESTER 2						**445**	**44.5**
TOTAL HOURS AND CREDITS IN SEMESTER 1, 2						**725**	**72.5**

YEAR 2, SEMESTER 3							
Codes	**Title of module**	**Lecture**	**Tutorial**	**Independent studies**	**Practical training**	**Total Hours**	**Total Credits**

DHA 105	Anti-retroviral therapy	3	-	1.5-	16	205	20.5
DHA 106	Child health and HIV & AIDS	2.5	2	-	13.5	180	18
TOTAL HOURS AND CREDITS IN SEMESTER 3						**385**	**38.5**

YEAR 2, SEMESTER 4							
Codes	**Title of module**	**Lecture**	**Tutorial**	**Independent studies**	**Practical training**	**Total Hours**	**Total Credits**
DHA 107	Management Skills (Option 1)	2	2.5	-	11.5	160	16
DHA 108	Teaching skills (Option 2)	3	1	-	12	160	16
DHA 9	Project (Option 3)	4.1	-	2	18	240	24
TOTAL HOURS AND CREDITS IN SEMESTER 4						**160**	**2418224**
TOTAL HOURS AND CREDITS IN SEMESTER 3, 4						**545**	**54.554.5**
TOTAL HOURS AND CREDITS IN YEAR 1 & 2						**1270**	**12.7**

5.1.3 Diploma in Occupational Therapy

a) Programme description

Occupational therapy is a client-centered health profession concerned with promoting health and well-being through occupation. The primary goal of occupational therapy is to enable people to participate in the activities of daily living. Occupational therapists achieve this outcome by working with people and communities to enhance their ability to engage in the occupations they want to, need to, or are expected to do, or by modifying the occupation or the environment to better support their occupational engagement *(WFOT 2012).*

This is a three-year diploma course, which consists of theoretical and practical training. It aims at qualifying Occupational Therapists who will be competent in addressing social, psychological, and physiological effects of disability by providing the intervention based on sound theoretical principles and models of the profession. A candidate who has successfully completed and passed the final year of study will be awarded a

b) Programme learning outcomes

By the end of the programme the students will be able to:

1. Identify and assess different disabilities and their functional needs.
2. Plan and carry out treatment interventions for different disabilities.
3. Carry out basic research on related to rehabilitation.
4. Apply occupational therapy professional standards and ethics.
5. Conduct health education activities at community level.

NORMAL LEARNING MATRIX FOR THE DIPLOMA IN OCCUPATIONAL THERAPY

YEAR 1 SEMESTER I								
Code	**Course title**	**Lecture**	**Tutorial**	**Practical**	**Independent studies**	**Assignment**	**Total hours per semester**	**Total Credits**
KDOTAN1101	Anatomy	2	1	-	0.25	1	74	7.4
KDOTPH1102	Physiology	2	0.5	-	0.5	1	72	7.2
KDOTSO1103	Sociology	2	0.5	-	0.5	0.6	66	6.6
KDOTPS1104	Psychology	2	0.5	-	0.5	0.6	66	6.6
KDOTCS1105	Clinical Science	2.8	-	-	0.5	0.5	75	7.5
KDOTPM1106	Practical Media	2	-	1	-	0.3	60	6
KDOTPC1107	Primary Health Care	2	0.5	-	0.5	0.6	66	6.6
KDOTFP1108	Foundation OT Practice	3.5	0.2	-	0.5	0.5	86	8.6
KDOTFV1109	Field Visits (I/2 Day)	-	-	2.2	-	-	35	2.3
TOTAL		**18.3**	**3.2**	**3.2**	**3.25**	**5.1**	**600**	**60.0**

Code	**Course title**	**Lecture**	**Tutorial**	**Practical**	**Independent studies**	**Assignment**	**Total hours**	**Total Credits**
KDOTAN2101	Anatomy	2.5	0.25	0.5	0.25	0.6	70	7.0

KDOTPH2102	Physiology	2.2	0.25	0.5	0.25	0.3	70	7.0
KDOTCS2103	Clinical Science	2.8	0	0	0.5	0.5	70	7.0
KDOTPM2104	Practical Media	1.0	0	2	0.3	0	60	6.0
KDOTFP2105	Foundation of OT Practice	3.0	0.5	0.2	0.5	0.5	60	6.0

Code	**Course title**	**Lecture**	**Tutorial**	**Practical**	**Independent studies**	**Assignment**	**Total hours**	**Total Credits**
KDOTAE2106	Adapting &Adaptive Equipment	1.7	0.3	2.5	0.3	0.2	80	8.0
KDOTC2107	Community	2.5	0.3	-	0.5	0.5	60	6.0
KDOTP2109	OT Applied to Pediatrics	1.8	0.1	1.5	0.1	0.2	60	6.0
KDOTFW2110	Fieldwork (Observation)	-	0.3	3.7	0.2	0.4	70	4.6
TOTAL		**19.3**	**2.1**	**12.4**	**3**	**3.4**	**600**	**60.0**

YEAR 2 SEMESTER III								
Code	**Course title**	**Lecture**	**Tutorial**	**Practical**	**Independent studies**	**Assignment**	**Total hours**	**Total Credits**
KDOTFP2301	Foundation of OT Practice	2	0.5	-	0.3	0.5	60	6.0
KDOTC2302	Community	2	0.5	-	0.3	0.5	60	6.0

KDOTP233	OT Applied to Pediatrics	2	0.2	0.6	0.3	0.2	90	9.0
KDOTCSP204	OT Applied to Physical Dysfunction	2.5	0.2	-	0.3	0.3	60	6.0
KDOTPM2305	Practical Media	0.8	0.2	2	0.2	0.1	60	6.0
KDOTCSPSY206	Clinical Science Psychiatric Conditions.	2.5	0.2	-	0.3	0.3	60	6.0
KDOTFW2307	Fieldwork (6 Weeks)	-	-	12.5	0.83	-	210	14.0
TOTAL		**11.8**	**1.8**	**15.1**	**1.18**	**2.3**	**600**	**60.0**

YEAR 2 SEMESTER IV								
Code	**Course title**	**Lecture**	**Tutorial**	**Practical**	**Independent studies**	**Assignment**	**Total hours**	**Total Credits**
KDOTK2401	Kinesiology	2.5	-	-	0.5	0.33	60	6.0
KDOTRH2402	Research H	1	-	-	0.22	-	60	6.0
KDOTP2403	OT Applied to Pediatrics	2	0.17	0.5	0.5	0.33	63	6.3
KDOTPD2404	OT Applied to Physical Dysfunction	2.5	0.5	1	0.5	0.44	81	8.1
KDOTPSY2405	OT Applied to Psychiatry	2	-	0.5	0.5	0.33	60	6.0
KDOT2406	Practical Media	1	0.2	1.5	0.5	0.4	66	6.6

KDOTFW2407	Fieldwork (6 Weeks)	-	-	12.5	0.83	-	210	14.0
TOTAL		**11**	**0.87**	**16**	**3.55**	**1.83**	**600**	**60.0**

YEAR 3 SEMESTER V								
Code	**Course title**	**Lecture**	**Tutorial**	**Practical**	**Independent studies**	**Assignment**	**Total hours**	**Total Credits**
KDOTRH3501	Research	4	2	-	4	-	200	20.0
KDOTRH3502	Administration & Management						70	7.0
KDOTPD3502	OT App. Physical Dysfunction	2	-	0.5	0.5	0.33	30	6.0
KDOTP3503	OT Applied to Pediatrics	2	-	0.5	0.5	0.33	30	6.0
KDOTPSY3504	OT Applied to Psychiatry	2	-	0.5	0.5	0.33	60	6.0
KDTFW3505	Fieldwork (6 Weeks)	-	-	12.5	0.83	-	210	14.0
TOTAL		**10**	**2**	**16.4**	**6.33**	**0.99**	**600**	**6.0**

YEAR 3 SEMESTER VI								
Code	**Course title**	**Lecture**	**Tutorial**	**Practical**	**Independent studies**	**Assignment**	**Total hours**	**Total Credits**
KDOTFW3606	Fieldwork (6 Weeks)	-		12.5	0.83	-	210	14.0

KDOTFW3607	Fieldwork Elective (6 Weeks)	-	-	12.5	0.83	-	210	14.0
KDOTPRPHDY3608	OT Applied to Physical Dysfunction Practical	-	-	0.8	-	-	60	6.0
KDOTPRPED3609	OT Applied to Pediatric Practical	-	-	0.8	-	-	60	6.0
KDOTPRMH36010	OT Applied to Mental Health Practical	-	-	0.8	-	-	60	6.0
TOTAL		**2**	**0.33**	**26.98**	**2.99**	**-**	**600**	**60.0**

5.1.4 BSc in Health Laboratory Sciences

a) Programme description

Medical laboratory scientists help improve lives by providing essential clinical information to health care providers. They are responsible for assuring reliable results that contribute to the prevention, diagnosis, prognosis, and treatment of physiological and pathological conditions. Laboratory tests are extremely valuable and contribute up to 70 percent of medical decisions made by health care provider. The course will last for three years (six academic semesters). The course will also develop practical, analytical, and transferable skills applicable to a wide range of employment opportunities such as pharmaceutical research, pathology, and diagnosis as well as clinical trials. Upon successful completion of the programme, the award of Bachelor's degree in health laboratory sciences of the Tumaini University Makumira will be given to the student.

b) Programme learning outcomes

By the end of the programme the students will be able to: -

1. Perform a full range of testing in the contemporary medical laboratory encompassing pre-analytical, analytical, and post-analytical components of laboratory services,

including hematology, chemistry, microbiology, urinalysis, body fluids, molecular diagnostics, phlebotomy, and immunohematology.
2. Demonstrate Proficiency to problem-solve, troubleshoot, and interpret results.
3. Demonstrate professional conduct, respecting the feelings and needs of others, protecting the confidence of patient information, and not allowing personal concerns and biases to interfere with the welfare of patients.
4. Demonstrate administrative skills consistent with philosophies of quality assurance, continuous quality improvement, laboratory education, fiscal resource management, and appropriate composure under stressful conditions.
5. Apply safety and governmental regulations and standards as applied to medical laboratory practice.
6. Communicate effectively to ensure accurate and appropriate information transfer.

NORMAL LEARNING MATRIX FOR THE BSc HEALTH LABORATORY SCIENCES PROGRAMME.

YEAR 1, SEMESTER 1								
Codes	**Title of module**	**Lecture**	**Tutorial**	**Assignment**	**Independent studies**	**Practical Training**	**Total Hours**	**Total Credits**
KBBB 1101	Basic Biochemistry	70	10	10	10	-	100	10.0
KBAN 1102	Anatomy	40	10	10	15	15	90	9.0
KBPH 1103	Physiology	40	20	20	20	-	100	10.0
KBCS 1104	Communication Skills	40	10	10	20	-	80	8.0-

KBBP 1105	Medical Laboratory Instrumentation	60	10	10	-	20	100	10.0
KBDS 1106	Development Studies	34	10	10	6	-	60	6.0
KBCA 1107	Computer Application Skills	30	10	10	-	20	70	7.0
TOTAL HOURS AND CREDITS IN SEMESTER 1							**600**	**60.0**

YEAR 1, SEMESTER 2								
KBAB 1208	Advanced Biochemistry	70	10	10	10	20	120	12.0
KBAN 1209	Anatomy	50	10	10	10	20	100	10.0
KBPH 1210	Physiology	50	10	10	10	20	100	10.0
KBFF 1212	Foundation of Faith	50	8	6	6	-	70	7.0
KBHT 1213	Histotechnology	60	10	10	-	20	100	10.0
KBLM 1214	Laboratory management	70	10	10	10	10	110	11.0
TOTAL HOURS AND CREDITS IN SEMESTER 2							600	60.0

YEAR 2, SEMESTER 3								
KBMI 2115	Medical Microbiology	54	10	6	5	-	75	7.5
KBIM 2116	Immunology	47	8	6	6		67	6.7
KBPE 2117	Medical Parasitology	54	10	6	5	23	98	9.8
KBCC 2118	Clinical Chemistry	54	10	6	5	23	98	9.8
KBHB 2119	Haematology	54	10	6	5	23	98	9.8
KBHT 2120	Histotechnology	45	8	6	5	18	82	8.2
KBPA 2121	Pathology	60	10	6	6	-	82	8.2
TOTAL HOURS AND CREDITS IN SEMESTER 3							**600**	**60.0**
YEAR 2, SEMESTER 4								
KBMM 2222	Medical Microbiology	54	10	6	5	30	105	10.5
KBPE 2223	Medical Entomology	54	10	6	5	30	105	10.5

KBCC 2224	Clinical Chemistry	54	10	6	5	30	105	10.5
KBHB 2225	Blood Transfusion	54	10	6	5	30	105	10.5
KBHT 2226	Histotechnology	45	8	6	5	25	89	8.2
KBPA 2227	Pathology	55	10	6	6	-	91	9.1
TOTAL HOURS AND CREDITS IN SEMESTER 4							**600**	**60.0**
YEAR 3, SEMESTER 5								
KBQS 3128	Lab Quality system	53	10	6	5	18	100	10.0
KBLA 3129	Laboratory Animals	50	10	10	-	20	90	9.0
KBEB 3130	Epidemiology & Biostatistics	53	10	22	5	-	100	10.0
KBEM 3131	Research Methodology	53	10	22	5	100	200	20.0
KBMB 3132	Molecular Biology	65	10	10	5	20	110	11.0
TOTAL HOURS AND CREDITS IN SEMESTER 5							**600**	**60.0**
YEAR 3, SEMESTER 6								
Codes	**Title of Course**	**Lecture**	**Tutorial**	**Assignment**	**Independent studies**	**Practical Training**	**Total Hours**	**Total Credits**
KBCC 3233	Clinical Chemistry	-	-	-	-	86	86	8.6
KBHB 3234	Haematology & Blood Transfusion	-	-	-	-	86	86	8.6
KBPE 3235	Diagnostic Parasitology	-	-	-	-	86	86	8.6
KBMC 3236	Diagnostic Microbiology	-	-	-	-	86	86	8.6
KBID 3237	Immunodiagnostics	-	-	-	-	60	60	6.0
KBHT 3238	Histotechnology	-	-	-	-	86	86	8.6
KBPR 3239	Research report	-	-	-	-	110	110	11.0
TOTAL HOURS AND CREDITS IN SEMESTER 6							**600**	**60.0**

5.1.5 BSc in Nursing

a) Programme description

This is a Four-year (In-service) or Four-year (Pre-service) undergraduate programme leading to the award of Bachelor of Bachelor of Science in Nursing (BSc. N) degree of Tumaini University Makumira. The programme is designed to educate and produce nurses who will be able to address contemporary and future needs of Tanzanians. From 2019/20 the BSc N programme was harmonized in the Country. Students admitted from 2020/21 will be using the Harmonized programme (iii) below.

b) Programme Learning outcomes

At the end of the programme students will be able to: -

1. Engage in professional nursing practice by utilizing a recognized nursing philosophy.
2. Deliver nursing care services to clients in all settings.
3. Provide leadership and managerial skills for improvement of health and nursing care within her/his scope of practice.
4. Utilize evidence-based nursing information to provide quality and effective care.
5. Conduct nursing research and disseminate findings to enhance education, practice, and management in nursing.
6. Demonstrate professional knowledge, skills and competence in health promotion, risk prevention and reduction, and the management and care of clients.
7. Implement and evaluate educational and health programmes for a variety of clients in difference settings.

NORMAL LEARNING MATRIX FOR THE BSc IN NURSING (IN-SERVICE) PROGRAMME.

YEAR 1 - SEMESTER: 1

CODE	COURSE TITLE	Theory		Practical		Total	
		Hours	Units	Hours	Units	Hours	Units
ANA 104	Anatomy	55	3.6	20	0.4	75	4.0
PH 104	Physiology	55	3.6	20	0.4	75	4.0
PAR 104	Parasitology	30	2.0	-	-	30	2.0
PHR 104	Pharmacology	40	2.6	-	-	40	2.6
MIN 104	Microbiology	75	5.0	30	0.6	105	5.6
BIN 104	Biochemistry	60	4.0	25	0.5	85	4.5
CSN 104	Communication Skills	30	2.0	-	-	30	2.0
SEMESTER: 2							
ANA 104	Anatomy	55	3.6	20	0.4	75	0.4
PH 104	Physiology	55	3.6	20	0.4	75	0.4
PAR 104	Parasitology	30	2.0	-	-	30	4.3
PHR 104	Pharmacology	80	5.3	10	0.2	90	5.5
MIN 104	Microbiology	75	5.0	30	0.6	105	5.6
BIN 104	Biochemistry	60	4.0	25	0.5	85	4.5
CSN 104	Communication Skills	30	2.0	-	-	30	2.0
YEAR 2: SEMESTER: 3							
Code	**Title**	**Hours**	**Credits**	**Hours**	**Credits**	**Hours**	**Credits**
SOC 204	Sociology & Anthropology	30	2.0	-	-	30	2.0
PSN 204	Psychology	75	5.0	-	-	75	5.0
DSN 204	Development Studies	30	2.0	-	-	30	2.0

ANS 204	Advanced Nursing Sciences	60	4.0	-	-	60	4.0
CHN 204	Community Health Nursing	60	4.0	-	-	60	4.0
RSM 204	Research Methodology	50	3.3	-	-	50	3.3
LEM 204	Leadership & Management	60	4.0	-	-	60	4.0
YEAR 2 -SEMESTER: 4							
SOC 204	Sociology & Anthropology	45	3.0	-	-	45	3.0
DSN 204	Development Studies	30	2.0	-	-	30	2.0
ANS 204	Advanced Nursing Sciences	48	3.2	96	2.1	144	6.1
CHN 204	Community Health Nursing	30	2.0	210	4.6	240	6.6
RSM 204	Research Methodology	50	3.3	-	-	50	3.3
LEM 204	Leadership & Management	60	4.0	-	-	60	4.0
YEAR 3 -SEMESTER: 5							
ANS 304	Nursing Sciences and Entrepreneurship	130	8.6	250	5.5	340	13.5
NED 304	Nursing Education	75	5	-	-	75	5
RSM 304	Research Methodology	40	2.6	140	3.1	180	5.7
CHN 304	Community Nursing	30	2.0	105	2.5	135	4.5
LEM 304	Leadership & Management	60	4.0	90	2	150	15.0
ANS 304	Advanced Nursing Sciences	60	4.0	160	3.5	220	7.5

NED 304	Nursing Education	105	7.0	160	3.5	265	10.5
RSM 304	Research Methodology	30	2.0	70	1.5	90	3.5
CHN 304	Community Health Nursing	40	2.6	105	2.5	145	5.1
LEM 304	Leadership & Management	40	2.6	105	2.5	145	5.1

NORMAL LEARNING MATRIX BSc NURSING (PRE-SERVICE) PROGRAMME (*2019/20 ONWARDS*)

YEAR 1, SEMESTER 1

Code	Title of Course	Lecture	Tutorial	Assignment	Independent studies	Practical training	Total Hours	Total Credits
KBBC 1101	Biochemistry	16.4	16.4	8.2	16.4	8.2	82	8.2
KBAN 1102	Anatomy	17.2	17.2	8.6	17.2	8.6	86	8.6
KBPH 1103	Physiology	17.2	34.4	17.2	17.2	-	86	8.6
KBCP 1104	Clinical Pharmacology	16.4	32.8	16.4	16.4	-	82	8.2
KBMI 1105	Microbiology/Immunol.	16.4	16.4	8.2	16.4	8.2	82	8.2
KBPE 1106	Parasitology/Entomology	16.4	16.4	8.2	16.4	8.2	82	8.2
KBCC 1107	Communication and Computer Application Skills	10	20	20	20	30	100	10.0
TOTAL HOURS AND CREDITS IN SEMESTER 1							**600**	**60.0**

YEAR 1: SEMESTER 2

KBBC 1201	Biochemistry	21.2	21.2	10.6	21.2	10.6	106	10.6
KBAN 1202	Anatomy	2.08	2.08	1.04	2.08	1.04	104	10.4
KBPH 1203	Physiology	20.8	41.6	20.8	20.8	-	104	10.4

KBCP 1204	Clinical Pharmacology	19.2	38.4	19.2	19.2	-	96	9.6
KBMI 1205	Microbiology/Immunology	16	16	8	16	8	80	8.0
KBPE 1206	Parasitology/Entomology	22	22	11	22	11	110	11.0
TOTAL HOURS AND CREDITS IN SEMESTER 2							**600**	**60.0**

YEAR 2, SEMESTER 3								
Codes	**Title of Course**	**Lecture**	**Tutorial**	**Assign**	**Indepen**	**Practica**	**Total**	**Total**
KBDS 2108	Development Studies	12.4	31	6.2	12.4	-	62	6.2
KBPN 2109	Principles of Nursing	40	40	20	20	80	200	20.0
KBSP 2110	Behavioral Science	24	54	24	24	-	126	12.6
KBLM 2111	Foundation of Faith	12.4	12.4	24.8	12.4	-	62	6.2
KBHG 2112	Human Growth and Development	12	12	24	12	-	60	6.0
KBFF 2113	Leadership and Management	18	18	54	18		90	9.0
TOTAL HOURS AND CREDITS IN SEMESTER 3							**600**	**60.0**
YEAR 2, SEMESTER 4								
KBDS 2208	Development Studies	12	30	6	12	-	60	6.0
KBPN 2209	Principles of Nursing	60	60	30	30	120	300	30.0
KBLM 2213	Leadership & Management	16	32	8	16	8	80	8.0
KBMS 2214	Medical and Surgical Nursing	32	32	16	16	64	160	16.0
TOTAL HOURS AND CREDITS IN SEMESTER 4							**600**	**60.0**

YEAR 3, SEMESTER 5								
Codes	**Title of Course**	**Lecture**	**Tutorial**	**Assignmen**	**Independen t studies**	**Practical training**	**Total Hours**	**Total Credits**
KBMS 3114	Medical and Surgical Nursing	40	40	20	20	80	200	20.0
KBNT 3115	Nutrition	12	30	6	12	-	60	6.0
KBNE 3116	Nursing Education	12	18	6	12	24	60	6.0
KBPD 3117	Pediatric Nursing	40	40	20	20	80	200	20.0
KBRM 3118	Research Methodology	16	16	32	16	-	80	8.0
TOTAL HOURS AND CREDITS IN SEMESTER 5							**600**	**60.0**

YEAR 3, SEMESTER 6								
KBRM 3218	Research Methodology	-	-	-	-	170	170	17.0
KBNI 3219	Nursing Informatics	12	12	6	6	24	60	6.0
KBEP 3220	Palliative care	20	20	10	10	40	100	10.0
KBMD 3221	Midwifery	40	40	20	20	80	200	20.0
KBCH 3222	Community Health Nursing	14	28	14	14	-	70	7.0
TOTAL HOURS AND CREDITS IN SEMESTER 6							**600**	**60.0**

YEAR 4, SEMESTER 7								
KBMD 4121	Midwifery	56	56	28	28	112	280	28.0
KBCH 4122	Community Health Nursing	48	48	24	24	96	240	24.0

KBMH 4123	Mental Health & Psychiatric Nursing	16	32	16	16	-	80	8.0
TOTAL HOURS AND CREDITS IN SEMESTER 7							**600**	**60.0**

YEAR 4, SEMESTER 8								
Codes	**Title of Course**	**Lecture**	**Tutorial**	**Assignme**	**Independe**	**Practical training**	**Total Hours**	**Total Credits**
KBMD 4221	Midwifery	42	42	21	21	84	210	21.0
KBCH 4222	Community Health Nursing	-	-	-	-	-	180	18.0
KBMB 4223	Mental Health & Psychiatric Nursing	42	42	21	21	84	210	21.0
TOTAL HOURS AND CREDITS IN SEMESTER 8							**600**	**60.0**
TOTAL HOURS AND CREDITS FOR YEAR 1, 2, & 3							**4800**	**480.0**

NORMAL LEARNING MATRIX FOR BSc IN NURSING PROGRAMME (*2020/21 ADMISSION ONWARDS*)

SEMESTER 1, YEAR 1									
Code	**Title of Course**	**Core**	**Lectures**	**Tut/Seminars**	**Assignments**	**Ind Study**	**Pract**	**Total Hrs**	**Credits**
NA 100	Gross Anatomy and Histology	Core	109	-	20	24	65	218	21.8
NB 100	Biochemistry and Molecular Biology	Core	100	25	20	20	90	255	25.5
NC 100	ICT & Communication skills	Core	30	-	16	28	34	108	10.8
PR 100	Professionalism & Ethics in Health and Research	Core	22	21	2	2	30	77	7.7
TOTAL			**249**	**35**	**66**	**92**	**216**	**658**	**65.8**

SEMSTER 2, YEAR 1									
Codes	**Title of Course**	**core**	**Lectures**	**Tut/Seminars**	**Assignments**	**Ind Study**	**Pract**	**Total Hrs**	**Credits**
PN 100	Physiology	Core	112	43	19	19	97	290	29.0
BN 100	Behavioral Sciences	Core	100	28	0	0	0	125	12.5
NP 100	Principles of Nursing	Core	47	46	21	17	112	243	24.3
TOTAL			**259**	**117**	**40**	**36**	**209**	**658**	**65.8**

SEMESTER 3, YEAR 2									
Codes	**Title of Course**	**core**	**Lectures**	**Tut/Seminars**	**Assignments**	**Ind Study**	**Pract**	**Total Hrs**	**Credits**
MN 200	Microbiology & Immunology	Core	49	41	12	13	79	194	19.4
NP 200	Parasitology & Entomology	Core	61	15	15	30	30	151	15.1
EN 200	Biostatistics & Epidemiology	Core	70	45	18	12	60	205	20.5
HS 200	Health System and Development	Core	59	15	15	19	-	108	10.8
TOTAL			**304**	**55**	**57**	**70**	**172**	**658**	**65.8**

SEMESTER 4 YEAR 2									
Course Code	**Course name**	**Core**	**Lecture Hrs**	**Tutorial/Seminar Hrs**	**Assignment Hrs**	**Independent study Hrs**	**Practical Hrs**	**Total Hrs**	**Credits**
CC 200	Basic and Clinical Pharmacology	Core	88	55	20	20	33	216	21.6
ME 200	Leadership, Management & Entrepreneurship	Core	42	0	10	17	0	69	6.9
TN 200	Teaching and Learning in Clinical Practice	Core	20	20	4	4	51	99	9.9
CN 200	Community Health Nursing	Core	18	20	12	20	80	150	15.0
BN 200	Basic and Clinical Nutrition	Core	18	18	4	4	80	124	12.4
TOTAL			**186**	**113**	**50**	**65**	**244**	**658**	**65.8**

SEMESTER 5 YEAR 3									
Course Code	Course name	Core	Lecture Hrs	Tutorial/Seminar Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits
MS 300	Medical & Surgical Nursing	Core	88	83	33	36	418	658	65.8
TOTAL			**88**	**83**	**33**	**36**	**418**	**658**	**65.8**

SEMESTER 6 YEAR 3									
Course Code	**Course name**	**Core**	**Lecture Hrs**	**Tutorial/Seminar Hrs**	**Assignment Hrs**	**Independent study Hrs**	**Practical Hrs**	**Total Hrs**	**Credits**
MW 300	Midwife	Core	30	35	14	14	127	221	22.1
MH 300	Mental Health Nursing	Core	24	10	4	4	105	147	14.7
PN 300	Pediatric Nursing	Core	30	25	15	15	130	215	21.5
RP 300	Research Proposal Development	Core	5	8	7	6	49	75	7.5
TOTAL			**89**	**78**	**40**	**40**	**411**	**658**	**65.8**

SEMESTER 7 YEAR 4									
Course Code	**Course name**	**Core**	**Lecture Hrs**	**Tutorial/Seminar Hrs**	**Assignment Hrs**	**Independent study Hrs**	**Practical Hrs**	**Total Hrs**	**Credits**
PN 400	Pediatric Nursing Practice	Core	30	30	15	15	120	210	21.0

CF 400	Community health nursing Field	Core	4	10	8	9	179	210	21.0
MW 400	Midwifery Practice	Core	40	10	10	20	158	238	23.8
TOTAL			**74**	**50**	**33**	**44**	**477**	**658**	**65.8**

SEMESTER 8 YEAR 4									
Course Code	**Course name**	**Core**	**Lecture Hrs**	**Tutorial/Seminar Hrs**	**Assignment Hrs**	**Independent study Hrs**	**Practical Hrs**	**Total Hrs**	**Credits**
RR 400	Research Report Writing	Core	0	20	0	0	120	140	14.0
NF 400	Mental Health (Forensic Psychiatry Field)	Core	26	26	12	12	134	210	21.0
MS 400	Medical-surgical nursing practice	Core	8	8	4	8	280	308	30.8
TOTAL			**34**	**54**	**16**	**20**	**534**	**658**	**65.8**

5.1.6 BSc in Physiotherapy

a) Programme Description

This course runs under the Faculty of Rehabilitation Medicine for four (4) years for direct entrants and three (3) years for the equivalent entrants. Graduates from this programme are expected to have high Physiotherapy professional competence in clinical practice to raise the standards of health care services.

b) Programme learning outcomes

By the end of the programme students will be able to: -

1. Plan and undertake a short-term research project from proposal to its completion showing awareness and understanding of ethical issues.
2. Relate how signs and symptoms of diseases or disorders affects human movement and body function.
3. Apply physiotherapy methods in the assessment of clients who as suffering from various illnesses.
4. Identify patients who require referral to other disciplines.
5. Apply skills of working effectively as members of multi and inter-disciplinary health care teams in health care settings.
6. Treat diseases and disorders that affect movement and body function by using physiotherapy methods.
7. Conduct preventive, promotive, and rehabilitative care accordingly.
8. Plan and undertake a short-term research project from proposal to its completion showing awareness and understanding of ethical issues.

NORMAL LEARNING MATRIX FOR BSc IN PHYSIOTHERAPY PROGRAMME.

Year 1 - Semester 1									
s/n	**Code**	**Subject**	**Lecture**	**Tutorials**	**Practical**	**Independent Studies**	**Assignment**	**Total hours per semester**	**Credits Semester**
1	KBAN 1101	Anatomy	36	36	36	9	9	126	12.6
2	KBPH 1102	Physiology	36	18	9	18	9	90	9.0
3	KBMI 1103	Microbiology & Immunology	36	8	6	6	4	60	6.0
4	KBPE 1104	Parasitology & Entomology	36	8	6	6	4	60	6.0
5	KBBB 1105	Basic Biochemistry	36	8	6	6	4	60	6.0
6	KBGP 1106	General Pathology	36	18	9	10.5	10.5	84	8.4
7	KBCI 1107	Communication Skills & Information Technology	36	9	6	4.5	4.5	60	6.0
8	KBFF 1108	Foundations of Faith	36	8	0	6	10	60	6.0
Total Hours and Credit in Semester I			**288**	**113**	**78**	**66**	**55**	**600**	**60.0**

*Behavioral science includes psychology, sociology, ethics, and communication skills

Year 1- Semester 2									
s/n	**Code**	**Subject**	**Lecture**	**Tutorials**	**Practical**	**Independent Studies**	**Assignment**	**Total hours per semester**	**Credits Semester**
1	KBAN 1209	Anatomy	36	36	36	9	9	126	12.6
2	KBPH 1210	Physiology	36	18	9	18	9	90	9.0
3	KBMI 1211	Microbiology & Immunology	36	9	6	6	3	60	6.0
4	KBPE 1212	Parasitology & Entomology	36	9	6	6	3	60	6.0
5	KBAB 1213	Advanced Biochemistry	36	9	6	6	3	60	6.0
6	KBGP 1214	General Pathology	36	18	9	10.5	10.5	84	8.4
7	KBMS 1215	Movement science	36	18	36	12	12	114	11.4
8	KBBS 1216	Behavioral Science	36	18	0	9	9	72	7.2
9	KBDS 1217	Developmental studies	36	9	0	6	9	60	6.0
Total Hours and Credit in Semester II			**324**	**324**	**144**	**108**	**82.5**	**600**	**60.0**

Year 2 - Semester 3

s/n	Code	Subject	Lecture	Tutorials	Practical	Independent Studies	Assignment	Total hours per	Credits Semester
1	KBPA 2318	Physical Assessment	36	9	36	4.5	4.5	90	9.0
2	KBEL 2319	Electrotherapy	36	9	36	4.5	4.5	90	9.0
3	KBBP 2320	Basic patient care	72	18	56	6	6	158	15.8
4	KBMT 2321	Manual Therapeutic Skills	36	18	70	9	9	142	14.2
5	KBPM 2322	Pharmacology	36	9	0	6	9	60	6.0
6	KBPH 2323	Public Health	36	9	0	6	9	60	6.0
Total Hours and Credit in Semester III			**252**	**72**	**198**	**36**	**42**	**600**	**60.0**

Year 2: Semester 4		Scheme of Study						
Code	**Subject**	**Lecture**	**Tutorials**	**Practical**	**Independent Studies**	**Assignment**	**Total hours per semester**	**Credits Semester**
KBMC 2424	Medical Conditions	36	9	0	6	9	60	6.0
KBGS 2425	Surgical Conditions	36	9	0	6	9	60	6.0
KBOC 2426	Orthopedic & Traumatic Conditions	36	9	0	6	9	60	6.0

KBPC 2427	Pediatric Conditions	36	9	0	6	9	60	6.0
KBRD 2428	Radiology	36	8	8	4	4	60	6.0
KBPA 2429	Physical Assessment	36	9	36	4.5	4.5	90	9.0
KBEL 2430	Electrotherapy	36	9	36	4.5	4.5	90	9.0
KBCF 2431	Community Physiotherapy	0	20	100	0	0	120	12.0
Total Hours and Credit in Semester 4		**252**	**82**	**180**	**37**	**49**	**600**	**60.0**
Year 3: Semester 5								
KBGU 3532	Genitourinary conditions	56	14	0	6	6	82	8.2
KBMH 3533	Mental Health	36	9	0	9	9	63	6.3
KBRM 3534	Research Methods	36	9	0	9	9	63	6.3
KBNP 3535	Neuromusculoskeletal Physiotherapy	18	18	36	4	4	80	8.0
KBIM 3536	Physiotherapy in Internal Medicine	6	12	120	6	12	156	15.6
KBPD 3537	Physiotherapy in Pediatrics	6	12	120	6	12	156	15.6
Total Hours and Credit in Semester 5		**158**	**74**	**276**	**40**	**52**	**600**	**60.0**

Year 3: Semester 6	**Scheme of Study**

Code	Subject	Lecture	Tutorials	Practical	Independent	Assignment	Total hours per semester	Credits Semester
KBEG 3638	Ergonomics	36	8	8	4	4	60	6.0
KBPS 3639	Physical education and sports medicine	36	8	18	4	4	70	7.0
KBOR 3640	Orthopedic technology and rehabilitation	36	8	8	4	4	60	6.0
KBRM 3641	Research Methods	36	8	8	4	4	60	6.0
KBNP 3642	Neuromusculoskeletal physiotherapy	0	18	36	4	4	62	6.2
KBOT 3643	Physiotherapy in Orthopedics	6	6	120	6	6	144	14.4
KBGS 3644	Physiotherapy in General Surgery	6	6	120	6	6	144	14.4
Total Hours and Credit in Semester 6		**156**	**62**	**318**	**32**	**32**	**600**	**60.0**
Year 4: Semester 7								
KBEB 4745	Epidemiology and Biostatistics	36	8	8	4	4	60	6.0
KBIM 4746	Physiotherapy in Internal Medicine	0	12	80	6	6	104	10.4
KBGS 4747	Physiotherapy in General Surgery	0	12	80	6	6	104	10.4
KBOT 4748	Physiotherapy in Orthopedic & Trauma	0	12	80	6	6	104	10.4
KBPD 4749	Physiotherapy in Pediatrics	0	12	80	6	6	104	10.4

KBFP 4750	Fieldwork Placements	0	4	120	0	0	124	12.4
Total Hours and Credit in Semester 7		**36**	**60**	**448**	**28**	**28**	**600**	**60.0**

Year 4		**Semester 8**	**Scheme of Study**						
s/n	**Code**	**Subject**	**Lecture**	**Tutorials**	**Practical**	**Independent Studies**	**Assignment**	**Total hours per semester**	**Credits Semester**
1	KBRP 4851	Research Project	0	0	36	24	0	60	6.0
2	KBAM 4852	Administration & Management	36	8	8	4	4	60	6.0
	KBIM 4853	Physiotherapy in Internal Medicine	0	6	108	3	3	120	12
4	KBGS 4854	Physiotherapy in General Surgery	0	6	108	3	3	120	12
5	KBOT 4855	Physiotherapy in Orthopedic & Trauma	0	6	108	3	3	120	12
6	KBPD 4856	Physiotherapy in Pediatrics	0	6	108	3	3	120	12
Total Hours and Credit in Semester 8			**36**	**32**	**476**	**40**	**16**	**600**	**60.0**
Total hours and credits for year 1, 2, 3 & 4.								**4800**	**480.0**

5.1.7 BSc in Prosthetics & Orthotics

a) Programme Description

This course which runs under the Faculty of Rehabilitation Medicine is a 4-year programme (for direct entrants) and 3 years for entrants under the equivalent qualifications. Graduates of the course are expected to have professional competence in clinical practice in Prosthetics and Orthotics Science by offering a broad range of subjects that include Physical and Clinical assessment and examination of patients with neuro-muscular-skeletal deficiencies. This also includes prescription and design of component, fabrication, delivery and follow up of orthopedic appliances.

b) Programme learning outcomes

By the end of the programme students will be able to: -

1. Manage the needs of the physically disabled population within and outside Tanzania.
2. Design, develop and fabricate Orthopedic appliances suitable for different types of disabilities.
3. Carry out research on the available resources with the aim of improving the quality, service delivery and Community Based Rehabilitation.
4. Carry out training and education activities in technical Orthopedics.
5. Produce individuals who can show understanding of the professional ethics and be able to appreciate the individual social, cultural, psychological, and economic factors which may influence the process of rehabilitation.
6. Managing, coordinating, and supervising the activities of the technical staff, i.e., Orthopedic Technologists, Orthopedics Technicians, Bench Workers, and other auxiliary Technicians.

NORMAL LEARNING MATRIX FOR BSc IN PROSTHETICS & ORTHOTICS PROGRAMME

YEAR 1 – SEMESTER 1									
Code	**Course Title**	**Lecture**	**Tutorials**	**Practical**	**Independent Studies**	**Assignment**	**weeks /semester**	**Total hours per**	**Credits Semester**
KBANP1 101	Basic Anatomy and Physiology	2	1	0	2	1	20	120	12
KBDDS 1102	Development studies	2	0.5	0	0.5	0.5	20	70	7
KBPED 1103	Principles of Engineering	1	1	0	0.5	0.5	20	60	6
KBFOF 1104	Foundation of Faith	2	0	0	0.5	0.5	20	60	6
KBWMT 1105	Workshop and materials	2	2.5	8	1	1	20	290	29
TOTAL		**9**	**5**	**8**	**4.5**	**3.5**		**600**	**60**

YEAR 1 SEMESTER 2									
Code	**Course title**	**Lect**	**Tutorial**	**Practical**	**Independent**	**Assignment**	**No of weeks**	**Total hours**	**Credits per**
KBLAP 1206	Lower Limb Anatomy and Physiology	2	1	0	2	1	20	120	12.0
KBKOB1207	Below Knee Orthotic Biomechanics	1	0.5	0	1	0.5	20	60	6.0
KBBKP 1208	Below Knee Pathology	2	1	0	1	0.5	20	90	9.0
KBBKO 1209	Below Knee Orthotic Management	2	1.5	9	2	2	20	330	33.0
TOTAL		**7**	**4**	**9**	**6**	**4**		**600**	**60.0**

YEAR 2 SEMESTER 3

Code	Course title	Scheme of Study (Hours per week)					No of weeks per semester	Total hours per semester	Credits per semester
		Lecture	Tutorial	Practical	Independent	Assignment			
KBKPB 2110	Below Knee Prosthetic Biomechanics	1	0.5	0	1	0.5	20	60	6.0
KBACS 2111	Applied Computer Science	1	0.5	2	0.5	0.5	20	90	9.0
KBRES 2112	Rehabilitation Science	2	0.5	0	2.5	1	20	120	12.0
KBBKP 2113	Below Knee Prosthetic Management	2	1.5	9	2	2	20	330	33.0
TOTAL		**6**	**3**	**11**	**6**	**4**		**600**	**60.0**
YEAR 2 SEMESTER 4									
Code	**Course title**	**Scheme of Study (Hours per week)**					**No of weeks per semester**	**Total hours per semester**	**Credits per semester**
		Lecture	Tutorial	Practical	Independent	Assignment			
KBKOB2214	Above Knee Orthotic Biomechanics	1	0.5	0	1	0.5	20	60	6.0

KBAKP2215	Above Knee Pathology	1	0.5	0	1	0.5	20	60	6.0
KBSTS 2216	Statistics	2	0.5	0	1	1	20	90	9.0
KBELT 2217	Electro-technology	2	0.5	0	1	1	20	90	9.0
KBAKO 2218	Above Knee Orthotic Management	2	1	8	2	2	20	300	30.0
TOTAL		**8**	**3**	**8**	**6**	**5**		**600**	**60.0**

YEAR 3 SEMESTER 5									
		Scheme of Study (Hours per week)							
Code	**Course title**	**Lecture**	**Tutorial**	**Practical**	**Independent studies**	**Assignment**	**No of weeks per semester**	**Total hours per semester**	**Credits per semester**
KBKPB 3119	Above Knee Prosthetic Biomechanics	1	0.5	0	1	0.5	20	60	6.0
KBRMD 3120	Research Methodology	2	1	0	1	0.5	20	90	9.0
KBLSM 3121	Leadership and Management	1	0.5	0	1	0.5	20	60	6.0

KBAKP 3122	Above Knee Prosthetic Management	2	2	12	2	1.5	20	390	39.0
TOTAL		**6**	**4**	**12**	**5**	**3**		**600**	**60.0**

YEAR 3 SEMESTER 6									
		Scheme of Study (Hours per week)							
Code	**Course title**	Lecture	Tutorial	Practical	Independent	Assignment	**No of weeks per semester**	**Total hours per semester**	**Credits per semester**
KBMRA 3223	Mobility and Rehabilitation Aids	1	0.5	0	1	0.5	20	60	6.0
KBHOB 3224	Hip and Ortho-prosthetic Biomechanics	1	0.5	0	1	0.5	20	60	6.0
KBHOP 3225	Hip and Ortho-prosthetic Management	1	0.5	8	1	0.5	20	160	16.0
KBCFA 3226	Clinical Field Attachment	0	0	15	1	0	20	320	32.0
TOTAL		**3**	**1.5**	**23**	**4**	**1.5**		**600**	**60.0**

YEAR 4 SEMESTER 7					
	Course title	**Scheme of Study (Hours per week)**	**No**	**Total**	**Credited**

Code		Lecture	Tutorial	Practical	Independent	Assignment			
KBAUT 4127	Anatomy and Physiology Upper Limb and Trunk	1	0.5	0	1	0.5	20	60	6.0
KBBUT 4128	Biomechanics of Upper Limb and Trunk	1	0.5	0	1	0.5	20	60	6.0
KBPUT 4129	Pathology of Upper Limb and Trunk	1	0.5	0	1	0.5	20	60	6.0
KBUPO 4130	Upper Limb Prosthetics and Orthotics Management	2	0.5	7	0.5	0.5	20	210	21.0
KBSOM 4131	Spinal Orthotic Management	2	0.5	6	1	1	20	210	21.0
TOTAL		**7**	**2.5**	**13**	**4.5**	**3**		**600**	**60.0**

YEAR 4 SEMESTER 8									
		Scheme of Study (Hours per week)							
Code	**Course title**	Lecture	Consultation	Practical	Independent studies	Assignment	**No of weeks per**	**Total hours per semester**	**Credits per semester**
KBRPJ4232	Research Project	0	4	0	4	6	20	280	28.0

KBPOC 4233	Prosthetics and Orthotics Clinical Practice	0	4	10	2	0	20	320	32.0
TOTAL		**0**	**8**	**10**	**6**	**6**		**600**	**60.0**

5.1.8 BSc in Optometry

Programme Description

This is a four-year programme which aimed at training optometrists who promote eye health and vision care as a human right through eye care service provision and through advocacy, education. Optometry is a healthcare profession that is autonomous, educated, and regulated (licensed/registered), and optometrists are the primary healthcare practitioners of the eye and visual system who provide comprehensive eye and vision care, which includes refraction and dispensing, detection/diagnosis, and management of disease in the eye, and the rehabilitation of conditions of the visual system.

Programme Learning Outcomes

At the end of the program graduates will be able to: -

1. Assess the visual function of the eye to client/patient.
2. Assess ocular health to the public/community.
3. Prescribe and fit contact lenses to clients/patients.
4. Provide comprehensive eye care.
5. Plan and implement eye care programs in clinical/community settings.
6. Conduct research on eye care.

NORMAL LEARNING MATRIX FOR BSc IN OPTOMETRY PROGRAMME.

Course Code	Course Name	Lecture Hours	Seminars and	Assignments	Independent Studies and	Practical Training	Total hours	Credits
BGA111	General Anatomy I	30	15	15	15		75	7.5
BAC112	Applied Chemistry	24	12	12	12		60	6.0
BGP113	General Physiology I	30	15	15	15		75	7.5
BMB114	Microbiology& immunology	30	15	15	15		75	7.5
BAM115	Applied Mathematics	36	18	18	18		90	9.0
BCS116	Computers Science	30	15	7.5	15	7.5	75	7.5
BIO117	Introduction to Optometry I	24	12	12	12		60	6.0
BDS118	Developmental Studies	24	12	12	12		60	6.0
BFF119	Foundation of Faith	24	12	12	12		60	6.0
TOTAL		**26**	**13**	**13**	**13**		**630**	**63.0**
BAP121	Applied Physics	26	13	13	13	65		6.5
BAB122	Applied Biochemistry	28	14	14	14	70		7.0
BPG123	Physical & Geometric Optics	36	18	18	18	90		9.0
BDO124	Dispensing Optics I	36	18	18	18	90		9.0
BET125	Ethics and professionalism	24	12	12	12	60		6.0

BGA126	General Anatomy II	24	12	12	12	60	6.0
BGP127	General Physiology II	24	12	12	12	60	6.0
BPS128	Psychology	24	12	12	12	60	6.0
BIO129	Introduction to Optometry II	36	18	18	18	90	6.0
TOTAL HOURS AND CREDITS IN SEMESTER 2						**645**	**64.5**

Course Code	**Course Name**	**Lecture Hours**	**Seminars and Tutorials**	**Assignments**	**Independent Studies and Research**	**Practical Training**	**Total hours**	**Credit Hours**
Year 2 Semester 3								
BOD231	Ocular Diseases	36	18	18	18		90	9.0
BCO232	Clinical Optometry Procedure	16	8	4	12	120	160	16.0
BGP233	General Pharmacology	24	12	6	18		60	6.0
BOO234	Ophthalmic Optics I	30	15	7.5	22.5		75	7.5
BOA235	Ocular Anatomy and Physiology I	30	15	7.5	22.5		75	7.5
BDO236	Dispensing Optics II	20	0	0	0	60	80	8.0

TOTAL HOURS AND CREDITS IN SEMESTER 3							**540**	**54.0**
Year 2 Semester 4								
BPO241	Physiological Optics	24	12	6	18		60	6.0
BEC242	Basic eye care Clinics	0	0	0	0	160	160	16.0
BLV243	Low Vision & Rehabilitation	24	12	6	18	60	120	12.0
BPH244	Public Health & Community Optometry	24	12	6	18	80	140	14.0
BOO245	Ophthalmic Optics II	30	15	7.5	22.5		75	7.5
BEB246	Epidemiology & Biostatistics	24	12	6	18		60	6.0
BOA247	Ocular Anatomy and Physiology II	24	12	6	18		60	6.0
TOTAL HOURS AND CREDITS IN SEMESTER 4							**675**	**67.5**

Year 3 Semester 5								
Course Code	**Course Name**	**Lecture Hours**	**Seminars and Tutorials**	**Assignments**	**Independent Studies and**	**Practical Training**	**Total hours**	**Credit Hours**
BIE351	Intermediate Eye Care Clinics -	24	12	6	18		60	6.0
BBC352	Basic Contact Lenses	24	12	6	18	45	105	10.5

BAE353	Anterior Eye Diseases	24	12	6	18		60	6.0
BVP354	Visual Perception and Neurophysiology	24	12	6	18		60	6.0
BOM355	Ocular Motility and Binocular Vision	30	15	7.5	22.5	45	120	12.0
BOP356	General & Ocular Pharmacology	24	12	6	18		60	6.0
TOTAL HOURS AND CREDITS IN SEMESTER 5							**465**	**46.5**
Year 3 Semester 6								
BCO361	Clinical Optometry Procedure –II	24	12	6	18	90	150	15.0
BACL362	Advanced Contact Lenses	18	9	4.5	13.5	45	90	9.0
BBV363	Binocular Vision Anomalies and Therapy	18	9	4.5	13.5	45	90	9.0
BPNE364	Posterior &Neurological eye diseases	36	18	9	27	-	90	9.0
BRM365	Research Methodology and Project design	18	9	4.5	13.5	45	90	9.0
BOE366	Occupational & Environmental Optometry	24	12	12	12		60	6.0
BALV367	Advanced Low Vision & Gerontology	12	6	3	9	45	75	7.5
BPE368	Primary Eye Care	30	15	7.5	22.5	45	120	12.0

TOTAL HOURS AND CREDITS IN SEMESTER 6	**765**	**76.5**

Year 4 semester 7								
Course Code	**Course Name**	**Lectu**	**Semi**	**Assig**	**Indep**	**Practical**	**Total hours**	**Credit Hours**
BCA471	Clinical case Analysis	24	12	12	12	-	60	6.0
BPA472	Pediatric Optometry	24	12	6	18	45	105	10.5
BCM473	Clinical Medicine for optometry	24	12	6	18	-	60	6.0
BPM474	Practice Management and Jurisprudence	12	6	3	9	135	165	16.5
BOR475	Optometric research Project	0	0	0	0	240	240	24.0
TOTAL HOURS AND CREDITS IN SEMESTER 7							**630**	**63.0**
Year 4 Semester 8								
BCO481	Clinical Optometry practice	12	6	3	9	90	120	12.0
BPP482	Paed .Optom clinical practice	12	6	3	9	90	120	12.0
BLP483	Low vision clinical practice	12	6	3	9	90	120	12.0
BCLP284	Contact Lens Practice	12	6	3	9	90	120	12.0
BDP485	Dispensing Optical practice	12	6	3	9	90	120	12.0
TOTAL HOURS AND CREDITS IN SEMESTER 8							**600**	**60.0**
GRAND TOTAL HOURS AND CREDITS							**4950**	**495.0**

5.1.9 Bachelor of Science in Occupational Therapy (BSc OT)

The BSc OT is a four years programmes aimed at to producing occupational therapists who are competent to fulfil professional responsibilities in the following areas: patient/client care in various settings for different populations; education of patients/clients and occupational therapy students in professional courses; administration and management of occupational therapy programs, institutions and facilities; lifelong learning for personal and career development, health promotion; advocacy for the advancement of the profession; community service and development; and research.

Program Learning Outcomes

The main learning outcome of the BSc OT Programme is to train competent Occupational therapy professionals capable of working independently to render quality, patient-centred, holistic occupation therapy to both patients and community. The Programme prepares occupational therapy officers who at the end of the programme will demonstrate the nine (9) core competency domains that reflect competencies for knowledge (K), Skills (S) and Attitude (A) as follows: -

Competency Domain 1: Professional Knowledge

(i) Advocate for access to occupations that support health and wellness.

(ii) Demonstrate everyday leadership that equips others to navigate the journey to health and wellness through the transformative power of occupation.

(iii) Develop as leaders who model the way to health and wellness through the transformative power of occupation.

(iv) Effectively demonstrate professionalism to communicate and collaborate in team-based care for client-cantered practice.

(v) Cultivate relationships to facilitate health and wellness.

(vi) Demonstrate communication that is flexible and responsive to contextual demands.

(vii) Demonstrate the ability to recognize and assess characteristics of community (comprised of individuals, groups, and populations that are complex, multifaceted, and layered with meaning) and context (factors such as culture, physical environment, personal interests, rituals, routines, spirituality, roles) to collaboratively find solutions to occupational challenges and to support occupational engagement and participation.

(viii) Value the characteristics of community and context as they influence occupation due to the symbiotic, dynamic, and complex relationship with the nature of the occupation.

(ix) Support occupational engagement and participation by recognizing and assessing the characteristics of communities and contexts.

Competency Domain 2: Practical/ Clinical Skills

(i) Demonstrate knowledge and understanding of how participation and engagement in occupation creates a sense of meaning and in turn influences health and wellness.

(ii) Demonstrate awareness that meaning is a dynamic process that occurs throughout day-to-day occupations across the lifespan.

(iii) Distinguish meaning as it relates to everyone, population, group, and community.

(iv) Collaborate with individuals, groups, populations, and communities to implement creative solutions to occupational challenges.

(v) Integrate creative resources and strategies to shape thinking that will move people and communities toward health and wellness through occupational engagement.

(vi) Demonstrate the resourcefulness to keep occupation at the center of academic and practice related learning.

Competency Domain 3: Relationships with Patients, Clients, and Communities

(i) Through the transformative power of occupation, graduates collaborate with people and communities to navigate a journey toward health and wellness.
(ii) Establish constructive (therapeutic/professional) relationships with clients and or communities to address their health needs and preferences.
(iii) Provide counselling for health and health related issues resulting to occupational performance limitations.
(iv) Provide health services to individuals and groups that are appropriate to their different backgrounds.

Competency Domain 4: Communication skills

(i) Occupational therapists practise with open, responsive, and appropriate communication to maximise the occupational performance and engagement of clients and relevant others.
(ii) Communicates openly, respectfully, and effectively with patients, families, and the public on health issues and policies.
(iii) Seeks and responds to feedback, modifying communication and/or practice accordingly,
(iv) Identifies and articulates the rationale for practice to clients and relevant others.
(v) Deliver effective health promotion messages to educate communities.
(vi) Communicate effectively scientific findings (oral and in written form) with patients, families, and the public on health issues and policies.
(vii) Communicate effectively with colleagues within one's profession or other health professionals.

Competency Domain 5: Intra and inter-professional practice and collaboration

(i) Apply professional knowledge to contribute effectively to teamwork to deliver client centred care.

(ii) Demonstrate respect for, roles/responsibilities and expertise of other professionals to improving the health of the population.

(iii) Collaborate with others to develop an intervention plan that takes into accounts determinants of health, available resources and range of activities that contribute to health.

(iv) Demonstrate the ability to recognize and assess characteristics of community (comprised of individuals, groups, and populations that are complex, multifaceted, and layered with meaning) and context (factors such as culture, physical environment, personal interests, rituals, routines, spirituality, roles) to collaboratively find solutions to occupational challenges and to support occupational engagement and participation.

(v) Value the characteristics of community and context as they influence occupation due to the symbiotic, dynamic, and complex relationship with the nature of the occupation.

(vi) Support occupational engagement and participation by recognizing and assessing the characteristics of communities and contexts.

Competency Domain 6: Maintaining Good Practice

(i) Integrate all levels of evidence to create, inform, and support occupation-cantered practice encompassing (or throughout) the entire OT process.

(ii) Embrace a culture of scholarly inquiry that addresses gaps in knowledge and promotes best practices and lifelong learning.

(iii) Demonstrate excellence in written and verbal communication to disseminate new ideas, knowledge, and skills that inform and guide practice.
(iv) Systematically evaluate one's own performance and practice (reflective practice).
(v) Regularly seek information necessary to improve professional practice (life-long learning).
(vi) Apply evidence in decision making.
(vii) Incorporate formative evaluation feedback into daily work practice.
(viii) Demonstrate leadership and managerial skills in managing health care delivery within the healthcare system.
(ix) Use information technology to optimize learning, health care delivery and education.
(x) Promote accreditation, monitoring, evaluation, and audit to provide quality care in health and health related services.
(xi) Set priorities and manage time to balance professional responsibilities, outside activities, and personal life.

Competency Domain 7: Working within the System and Context of Health

(i) Demonstrate knowledge of the health care system functions (structures, policies, regulations, standards, and guidelines) which underpins disability and rehabilitation.
(ii) Practice effectively in various health care delivery settings and systems (hospitals, ministries, NGO's, communities, industry) which deal with disability.
(iii) Demonstrate understanding of health facility policies and protocols during health services delivery.
(iv) Employ principles and strategies of cost effectiveness into health service delivery.
(v) Solve health care system challenges when delivering health care services.

(vi) Apply entrepreneurial skills for advancement of practice and the profession.

Competency Domain 8: Professionalism

(i) Maintain professional ethical standards including but not limited to confidentiality, informed consent, practice errors, avoid conflicts of interest).
(ii) Show sensitivity and responsiveness to diversity including but not limited to culture, age, socioeconomic status, gender, religion, and disability).
(iii) Show respect, compassion, and integrity while interacting with patients, teachers, clients, communities, and other health professionals.
(iv) Demonstrate accountability to patients, society and the profession when providing health care services.

Competency Domain 9: Scientific Inquiry and critical thinking

(i) Adhere to scientific inquiry procedures in solving problems.
(ii) Apply appropriate research methods when conducting scientific inquiry.
(iii) Evaluate the strength and/or weaknesses of clinical and research findings.
(iv) Defend scientific arguments/ clinical findings.
(v) Apply clinical reasoning to solve health and health related problems.
(vi) Analyse new knowledge, guidelines, standards, technologies, products, or services that have been demonstrated to improve outcomes.

Normal Learning Matrix for BSc OT programme

Year 1: Semester I									
Course code	Course Status	Course Title	Lectures Hrs	Tutorials Hrs	Assignment Hrs	Independent study Hrs	Practical Hrs	Total Hrs	Credits

AN 110	Core	Anatomy Level I	36	18	9	18	9	90	9
PH 110	Core	Physiology Level I	36	18	9	18	9	90	9
MB 110	Core	Biomedical Sciences Level I	84	42	21	42	21	210	21
CS 110	Core	Clinical pathology Level I	36	18	9	18	9	90	9
IC 100	Core	ICT & Communication Skills	24	12	6	12	6	60	6
CF 100	Core	Foundation of Faith	24	12	6	12	6	60	6
Total Hours and Credits in Semester I			**240**	**120**	**60**	**120**	**60**	**600**	**60**

Year 1: Semester 2									
Course code	**Status**	**Course Title**	**Lectures Hrs**	**Tutorials Hrs**	**Assignment Hrs**	**Independent study**	**Practical Hrs**	**Total Hrs**	**Credits**
AN 120	Core	Anatomy Level II	36	18	9	18	9	90	9
PH 120	Core	Physiology Level II	36	18	9	18	9	90	9
MB 120	Core	Biomedical Sciences Level II	80	40	20	40	20	200	20
CS 120	Core	Clinical pathology Level II	24	12	6	12	6	60	6
BS 100	Core	Behavioural Science	27.2	13.6	6.8	13.6	6.8	68	6.8
NF 100	Core	Fundamentals of Occupational therapy and First Aid	24	12	6	12	6	60	6
OF 100	Core	Foundation of OT Practice Level I	24	12	6	12	6	60	6
Total hours and credits in Semester 2			**251**	**126**	**62.8**	**126**	**62.8**	**628**	**62.8**

Year 2: Semester 3									
Course code	**Course Status**	**Course Title**	**Lectures Hrs**	**Tutorials Hrs**	**Assignment Hrs**	**Independent study**	**Practical**	**Total Hrs**	**Credits**
OP 200	Core	Public Health and Rehabilitation	40	20	10	20	10	100	10
OF 230	Core	Foundations of OT practice Level II	32	16	8	16	8	80	8
PM 200	Core	Human movements studies	24	16	8	16	16	80	8

PP 200	Core	Advanced Clinical pathology in Paediatrics	36	18	9	18	9	90	9
MP 200	Core	Advanced Clinical pathology in Psychiatry	36	18	9	18	9	90	9
PR 200	Core	Professionalism and Ethics in occupational therapy practice	32	16	8	16	8	80	8
HS 200	Core	Health System and Development	32	16	8	16	8	80	8
Total hours and credits in Semester 3			**222**	**114**	**232**	**120**	**60**	**600**	**60**

YEAR 2, SEMISTER IV									
Course code	**Status**	**Course Title**	**Lectures Hrs**	**Tutorials Hrs**	**Assignment Hrs**	**Independent study Hrs**	**Practical Hrs**	**Total Hrs**	**Credits**
PB 200	Core	Basic Pharmacology	25.6	12.8	6	12	6	64	6.4
OT 240	Core	Occupational therapy techniques Level I	18	14	7	9	28	70	7
ON 200	Core	Occupational therapy in neurology	19	14	7	10	28	70	7
OM 240	Core	Occupational therapy in mental health Level I	20	15.6	7.8	11	31.2	78	7.8
OP 240	Core	Occupational therapy in Paediatrics Level I	21	15.6	7.8	12	31.2	78	7.8
FW 240	Core	Field Placement Level I		24			216	240	24
Total Hours and Credits in Semester IV			**114**	**96**	**104**	**96**	**35.6**	**600**	**60**

YEAR 3, SEMESTER V									
Course code	**Status**	**Course Title**	**Lectures Hrs**	**Tutorials Hrs**	**Assignment**	**Independent**	**Practical Hrs**	**Total Hrs**	**Credits**
OS 300	Core	Occupational therapy in muscular skeletal system	21.6	14.4	7.2	7.2	21.6	72	7.2
OM 350	Core	Occupational therapy in mental health Level II	25.2	16.8	8.4	8.4	25.2	84	8.4
OP 350	Core	Occupational therapy in Paediatrics Level II	25.2	16.8	8.4	8.4	25.2	84	8.4
EB 350	Core	Epidemiology and Biostatistics	24	12	6	12	6	60	6
OT 350	Core	Occupational therapy technique Level II	18	12	6	6	18	60	6
FW 350	Core	Field Placement Level II	0	24	0	0	216	240	24

Total Hours and Credits in Semester V	**114**	**96**	**36**	**42**	**312**	**600**	**60**

YEAR 3, SEMESTER VI									
Course code	**Course Status**	**Course Title**	**Lectures Hrs**	**Tutorials Hrs**	**Assignment Hrs**	**Independent study Hrs**	**Practical Hrs**	**Total Hrs**	**Credits**
OG 300	Core	Occupational therapy in Geriatrics	21.6	14.4	7.2	7.2	21.6	72	7.2
OM 360	Core	Occupational therapy in mental health Level III	21.6	14.4	7.2	7.2	21.6	72	7.2
OP 360	Core	Occupational therapy in Paediatrics Level III	21.6	14.4	7.2	7.2	21.6	72	7.2
RP 300	Core	Research Proposal Development	22.5	15	7.5	7.5	22.5	75	7.5
ME 300	Core	Health Service management, leadership, and Entrepreneurship	27.6	13.8	6.9	13.8	6.9	69	6.9
FW 360	Core	Field Placement III		24			216	240	24
Total Hours and Credits in Semester VI			**115**	**96**	**36**	**42.9**	**310**	**600**	**60**

YEAR 4, SEMESTER VII									
Course code	**Course Status**	**Course Title**	**Lectures Hrs**	**Tutorials Hrs**	**Assignment Hrs**	**Independent study Hrs**	**Practical Hrs**	**Total Hrs**	**Credits**
OC 400	Core	Occupational therapy neurology, geriatric & muscular skeletal level I	18	12	6	6	18	60	6
OM 470	Core	Occupational therapy in mental health Level IV	18	12	6	6	18	60	6
OP 470	Core	Occupational therapy in Paediatrics Level IV	18	12	6	6	18	60	6
RA 400	Core	Research Data Analysis and Reporting		36		36	108	180	18
FW 470	Core	Field Placement IV		24			216	240	24
Total Hours and Credits in Semester VII			**54**	**96**	**18**	**54**	**378**	**600**	**60**

YEAR 4, SEMESTER 8									
Course code	**Course Status**	**Course Title**	**Lectures Hrs**	**Tutorials Hrs**	**Assignment Hrs**	**Independent study Hrs**	**Practical Hrs**	**Total Hrs**	**Credits**
OS 480	Core	Occupational Therapy in neurology, geriatric & muscular skeletal system Level II	27	18	9	9	27	90	9
OM 480	Core	Occupational Therapy in mental health Level V	27	18	9	9	27	90	9
OP 480	Core	Occupational therapy in Paediatrics Level V	27	18	9	9	27	90	9
CP 400	Core	Community Project	9	18	9	18	36	90	9
FW 480	Core	Field elective placement		24			216	240	24
Total Hours and Credits in Semester VIII			90	96	36	45	333	600	60
Total hours and Credits for BSc. OT Programme			**1189**	**840**	**342**	**598**	**1862**	**4800**	**480**

5.1.10 Doctor of Medicine (MD)

a) Programme description

This program is five years long. The aim of the MD programme is to train medical professionals who combine clinical competence, medical knowledge, and proficiency in inter-personal and communication skills, ability to respond to the psychosocial aspects in healthcare and to keep abreast of new developments in the medical field. Upon successful completion of the five years of training, a degree of Doctor of Medicine of the Tumaini University Makumira will be conferred. Upon completion of the five years the graduate is expected to undertake an additional sixth year of apprenticeship in an approved institution before being allowed to practice independently.

Taking into consideration that Medicine is a caring humanitarian profession, the MD programme has been designed in such manner that a graduate physician would.

b) Program expected learning outcomes

By the end of this programme graduates will be able to: -

1. Identify, assess, plan, and manage health problems of a patient.
2. Practice the ethical basis of medical practice and be able to identify social cultural, psychological, and economic factors which influence the health of the individual, family, and community.
3. Plan, organize, coordinate, and evaluate the health needs of individuals, families and the community as well as being capable of implementing primary health care strategy for the community.
4. Communicate with individuals, families, and the community. As a member of health team, the graduate should be able to establish inter professional and inter-sectorial relations to achieve prescribed goals.
5. Carry out self-evaluation Self-directed learning, updating one's knowledge and medical practice.
6. Demonstrate problem solving capacity (professional reasoning), associated with clearly identifiable professional attitudes, combined with a range of psychomotor abilities (professional skills), and carry with him/her an integrated information base (professional knowledge).
7. Write Research proposals and carry meaningful research activities.
8. Demonstrate competence in the teaching, planning and evaluation of health programmes.
9. Demonstrate problem solving capacity (professional reasoning), associated with clearly identifiable professional attitudes, combined with a range of psychomotor abilities (professional skills), and carry with him/her an integrated information base (professional knowledge

NORMAL LEARNING MATRIX FOR DOCTOR OF MEDICINE PROGRAMME *(2019/20 ADMISSION ONWARDS)*

YEAR 1 - SEMESTER 1							
Code s	**Course/ Module Title**	**Lecture**	**Tutorials**	**Independent**	**Practical**	**Total**	**Credit**
K8ANA1101	Anatomy	40	-	64	81	185	18.5
K8BC1102	Biochemistry	40	-	30	27.5	97.5	9.75
K8PH1103	Physiology	54	6	14.5	23	97.5	9.75
K8CM1104	Community Medicine	20	-	5	90	115	11.5
K8EB1105	Epi -Bio	60	-	10	10	80	8.0
K8PS 1106	Psychology	15	-	10	-	25	2.5
TOTAL HOURS AND CREDIT IN SEMESTER 1						**600**	**60.0**
YEAR 1: SEMESTER 2							
ANA104	Anatomy	16	-	32	122	170	17.0
BIN104	Biochemistry	16	-	32	12	80	8.0
BPS128	Physiology	71	5	64	20	160.	16.0
COH201	Community Medicine	20	-	5	75	95	9.6
BEB246	Epi –Bio	30	-	10	50	95	9.5
TOTAL HOURS AND CREDIT IN SEMESTER 1						**600**	**60.0**

YEAR 2: SEMESTER 3

Code s	Course/Module Title	Lecture	Tutorials	Independent study	Practical	Total	Credit
K8PA2312	Parasitology	16	-	48	-	64	6.4
K8PT3213	Pathology	32	-	40	24	96	9.6
K8CM2314	Community Medicine	32	-	25	100	157	15.7
K8EB2315	Epi/Biostatistics	32	-	15	-	47	4.7
K8MC2316	Microbiology	40	-	-	36	76	7.6
K8NS2317	Nursing	10	-	-	-	10	1.0
K8PM2318	Pharmacology	40	-	20	20	60	6.0
K8SC2319	Sociology	20	-	10	-	30	3.0
K8FO2320	Foundation of Faith	20	-	10	-	30	3.0
K8DS2321	Development Studies	20	-	10	-	30	3.0
TOTAL HOURS AND CREDIT IN SEMESTER 1						**600**	**60.0**
YEAR 2 SEMESTER 4							
K8PA2422	Parasitology	90	-	30	20	120	12.0
K8PT2423	Pathology	50	10	20	20	100	10.0
K8CM2424	Community Health	10	5	10	80	105	10.5
K8EB2425	Epi/Biostatistics	10	5	10	10	35	3.5
K8MC2426	Microbiology	48	20	40	12	120	12.0
K8PM2427	Pharmacology	50	5	10	10	75	7.5
K8DS2428	Development Sciences	20	**5**	**10**	**10**	45	4.5

TOTAL HOURS AND CREDITS IN SEMESTER 3	600	60.0

YEAR 3 SEMESTER 5 (CPST, DISEASE MANAGEMENT & JUNIOR CLINICAL ROTATIONS)

YEAR 3 SEMESTER 5							
Codes	**Course/Module Title**	**Lectures**	**Tutorials**	**Independent study**	**Practical**	**Total hours**	**Total Credits**
K8CP3529	Clinical Practical Skills Training	55	50	11	104	220	22.0
K8DM3530	Disease Management	100	25	40	-	165	6.5
K8JC3531	Junior Clinical Rotation	-	100	15	100	215	21.5
TOTAL HOURS AND CREDITS SEMESTER 5						**600**	**60.0**
YEAR 3 SEMESTER 6							
K8ID 3632	Infectious Diseases	80				80	8.0
K8IM3633	IMCI	10	-	10	40	60	6.0
K8HP 3634	Health Promotion	40			70	110	11.0
K8DE 3635	Dental		28		40	68	6.8
K8RA 3636	Radiology		28		40	68	6.8
K8CL 3637	Clinical Laboratory		28		60	86	8.6
K8OP 3638	Ophthalmology		18		50	68	6.8
K8PY3639	Psychiatric	20	-		10	60	6.0
TOTAL HOURS AND CREDITS FOR SEMESTER 6						**600**	**60.0**

YEAR 4 SEMESTER 7						
Codes	**Course/Module Title**	**Lectures**	**Tutorial**	**Practical**	**Total hours**	**Total Credits**
K8AN 4732	Anesthesia	20	10	70	100	10.0
K8OR 4733	Orthopedic	20	10	70	100	10.0
K8UR 4734	Urology	20	10	70	100	10.0
K8PC 4734	Psychiatry	20	10	70	100	10.0
K8SS 4735	Dermatology	20	10	70	100	10.0
K8PC 4736	Ear, Nose and Throat (ENT)	20	10	70	100	10.0
TOTAL HOURS AND CREDITS FOR SEMSETER 7					**600**	**60.0**
YEAR 4 SEMESTER 8						
Codes	**Course/Module Title**	**Lectures**	**Tutorial**	**Practical**	**Total hours**	**Total Credits**
K8DM 4837	Community Medicine	30	50	220	300	30.0
K8RE 4838	Research	50	50	200	300	30.0
TOTAL HOURS AND CREDITS FOR SEMESTER 8					**600**	**60.0**
YEAR 5 SEMESTER 9						
K8IM 5939	Internal Medicine 1	40	25	65	130	12.0
K8PE 5940	Pediatrics 1	40	25	65	130	12.0
K8SU 5941	Surgery 1	40	25	65	320	12.0
K8OB 5942	Obs/Gyn 1	20	25	65	130	12.0
K8EM 5952	Emergency Medicine 1	5	20	55	80	8.0

TOTAL HOURS AND CREDITS FOR SEMESTER 9					600	60.0
YEAR 5 SEMESTER 10						
Codes	**Course Module Title**	**Lectures**	**Tutorial**	**Practical**	**Total hours**	**Total Credits**
K8IM 51044	Internal Medicine 2	40	15	65	130	13.0
K8PE 51040	Pediatrics 2	40	15	65	130	13.0
K8SU 51041	Surgery 2	40	15	65	130	13.0
K8OB 51042	Obs/Gyn 2	20	15	65	130	13.0
KBEM 51057	Emergency Medicine 2	5	20	55	80	8.0
TOTAL HOURS AND CREDITS FOR SEMESTER 10					**600**	**60.0**
TOTAL HOURS AND CREDITS (Year 1,2,3,4,5,)					**6000**	**600.0**

NORMAL LEARNING MATRIX FOR THE DOCTOR OF MEDICINE PROGRAMME (2020/21 ADMISSION ONWARDS)

Semester 1 Year 1									
Course name	**Code**	**Core/ elective**	**Lectures (Hrs)**	**Tutorial/ Seminar (Hrs)**	**Assig (Hrs)**	**Ind. Study (Hrs)**	**Practical (Hrs)**	**Total (Hrs)**	**Credits**
Gross Anatomy and Histology	AN 100	CORE	109	-	20	24	65	218	21.8
Biochemistry and Molecular Biology	BC 100	CORE	60	15	12	12	55	155	15.5
Physiology	PH 100	CORE	60	-	10	10	20	100	10.0
ICT &Communication skills	IC 100	CORE	25	-	13	23	34	95	9.5
Foundation of faith	CF 100	ELECTIVE	10	-	5	5	-	20	2.0
Professionalism & Ethics in Health and Research	PR 100	CORE	8	8	8	19	27	70	7.0
Total			**249**	**35**	**66**	**92**	**217**	**658**	**65.8**

Semester 2 Year 1									
Course name	**Code**	**Core/ elective**	**Lectures (Hrs)**	**Tutorial/ Seminar (Hrs)**	**Assig (Hrs)**	**Ind. Study (Hrs)**	**Practical (Hrs)**	**Total (Hrs)**	**Credits**
Embryology and Dissection	ED 100	CORE	39	-	10	20	115	184	18.4
Physiology	PH 100	CORE	114		19	19	38	190	19.0
Biochemistry	BM 100	CORE	39	10	8	8	35	100	10.0
Behavioural science	BS 100	CORE	100	25	-	-	-	125	12.5
Introduction to Community Health	CH 100	CORE	24	23	6	6	-	59	5.9

Total		337	48	45		55	173	658	65.8
Semester 3 Year 2									
Course name	**Code**	**Core/ elective**	**Lectures (Hrs)**	**Tutorial/Seminar (Hrs)**	**Assig (Hrs)**	**Ind. Study (Hrs)**	**Practical (Hrs)**	**Total (Hrs)**	**Credits**
Microbiology/Immunology	MI 200	CORE	94	-	9	9	82	194	19.4
Parasitology & Entomology	PE 200	CORE	61	15	15	30	30	151	15.1
Epidemiology & Biostatistics	EB 200	CORE	90	25	18	12	60	205	20.5
Health Systems and Development	HS 200	CORE	59	15	15	19	-	108	10.8
Total			**304**	**55**	**57**	**70**	**172**	**658**	**65.8**

Semester 4 Year 2									
Course name	**Code**	**Core/ elective**	**Lectures (Hrs)**	**Tutorial/ Seminar (Hrs)**	**Assig (Hrs)**	**Ind. Study (Hrs)**	**Practical (Hrs)**	**Total (Hrs)**	**Credits**
Community Health Practice	CH 200	CORE	-	9	0	4	57	70	7.0
Basic and Clinical Pharmacology	CP 200	CORE	40	80	17	20	60	217	21.7
Pathology	PA 200	CORE	**168**	**28**	**-**	**14**	**61**	**271**	**27.1**
Psychopathology	PS 200	CORE	25	10	5	10	-	50	5.0
Haematology and Blood Transfusion	HB 200	CORE	15	8	5	5	17	50	5.0
Total			**250**	**134**	**27**	**59**	**188**	**658**	**65.8**

Semester 5 Year 3 (Junior Clerkship)									
Course name	**Code**	**Core/ elective**	**Lectures (Hrs)**	**Tutorial/ Seminar (Hrs)**	**Assig (Hrs)**	**Ind. Study (Hrs)**	**Practical (Hrs)**	**Total (Hrs)**	**Credits**

Clinical Practical Skills Training (CPST)	IC 300	CORE	8	-	13	14	65	100	10.0
Management of Diseases	MD 300	CORE	**266**	**-**	**46**	**97**	**46**	**455**	**45.5**
Occupational Medicine	OM 300	**CORE**	**24**	**12**	**6**	**4**	**6**	**52**	**5.2**
Research Proposal Development	RP 300	CORE	10	10	5	5	21	51	5.1
Total			**377**	**20**	**51**	**134**	**76**	**658**	**65.8**

Semester 6 Year 3 (Junior Clerkship)									
Course name	**Code**	**Core/ elective**	**Lectures (Hrs)**	**Tutorial/ Seminar (Hrs)**	**Assig (Hrs)**	**Ind. Study (Hrs)**	**Practical (Hrs)**	**Total (Hrs)**	**Credits**
Professionalism and Ethics in Medical Practice	PR 300	CORE	12	12	24	24	65	137	13.7
Communicable and Non-Communicable Diseases Control	CD 300	CORE	140	70	35	35	72	352	35.2
Management and Entrepreneurship	ME 300	CORE	42	-	10	17	0	69	6.9
Research Data analysis and Reporting	RA 300	CORE	20	20	10	10	40	100	10.0
Total			**202**	**88**	**64**	**64**	**230**	**658**	**65.8**

Semester 7 Year 4- (Senior Clerkship)									
Course name	**Code**	**Core/ elective**	**Lecture (Hrs)**	**Tutorial/Seminar (Hrs)**	**Assignments (Hrs)**	**Ind. Study (Hrs)**	**Practical (Hrs)**	**Total (Hrs)**	**Credits**
Psychiatry and Mental Health	PY 400	Core	7	19	9	9	50	94	9.4
Anaesthesiology and Critical care Medicine	AC 400	Core	7	19	9	9	50	94	9.4
Ophthalmology	OP 400	Core	7	19	9	9	50	94	9.4
Radiology and Imaging	RD 400	Core	7	19	9	9	50	94	9.4
Emergency Medicine	EM 400	Core	7	19	9	9	50	94	9.4

Otorhinolaryngology	OL 400	Core	7	19	9	9	50	94	9.4
Orthopaedics, Traumatology and Neurosurgery	OT 400	Core	7	19	9	9	50	94	9.4
Total			**49**	**133**	**63**	**63**	**350**	**658**	**65.8**

Semester 8, Year 4- (Senior Clerkship)									
Course name	**Code**	**Core/ elective**	**Lecture (Hrs)**	**Tutorial/ Seminar (Hrs)**	**Assign. (Hrs)**	**Ind. Study (Hrs)**	**Practical (Hrs)**	**Total (Hrs)**	**Credits**
Community health (DMO)	DM 400	Core	30	10	10	20	60	130	13.0
Surgery	SU 400	Core	10	27	13	13	71	134	13.4
Medicine	IM 400	Core	10	27	13	13	71	134	13.4
Obstetrics and Gynaecology	OG 400	Core	9	26	13	13	69	130	13.0
Paediatrics and Child Health	PC 400	Core	9	26	13	13	69	130	13.0
Total			**68**	**116**	**62**	**72**	**340**	**658**	**65.8**

Semester 9: Year 5 - Senior Rotation (Senior Clerkship)

Course name	**Code**	**Core/ elective**	**Lecture (Hrs)**	**Tutorial/ Seminar (Hrs)**	**Assign. (Hrs)**	**Ind. Study (Hrs)**	**Practical (Hrs)**	**Total (Hrs)**	**Credits**
General Surgery	SU 500	Core	26	66	33	33	171	329	32.9
Obstetrics and Gynaecology	OG 500	Core	26	66	33	33	171	329	32.9
Total			**52**	**132**	**66**	**66**	**342**	**658**	**65.8**

Semester 10: Year 5 - Senior Rotation (Senior Clerkship)									
Course name	**Code**	**Core/elective**	**Lecture (Hrs)**	**Tutorial/Seminar**	**Assignments (Hrs)**	**Ind. Study (Hrs)**	**Practical (Hrs)**	**Total (Hrs)**	**Credits**
Paediatrics and Child Health	PC 500	Core	26	66	33	33	171	329	24.2
Internal Medicine	IM 500	Core	26	66	33	33	171	329	24.2
Total			**52**	**132**	**66**	**66**	**342**	**658**	**65.8**

5.2 Postgraduate Programmes

Aim of the Postgraduate Studies

Postgraduate training at KCMU College is designed for highly qualified medical practitioners and other allied health personnel who are strongly motivated towards a career in Medical Sciences and academic medicine. Graduates in these courses are expected to augment the national need for high level manpower requirements which will in turn improve the roles expected of referral and consultant hospitals in teaching, service, and research.

5.2.1 Master of Public Health (MPH) Programme

a) Programme description

This course covers the whole breadth of public health, With emphasis on middle- and low-income countries. This is a one-year programme for full time and two years for part-time students. The programme is composed of 14 modules with a total of 180 credits. It consists of coursework and dissertation with a strong component of research skills.

A candidate who fulfils the above conditions shall be awarded the degree of Master of Public Health (MPH) of Tumaini University Makumira, KCMU College.

b) Programme Learning outcomes

At the end of this programme, graduates will be able to: -

1. Demonstrate the multidisciplinary approach address various health problems. Identify and apply appropriate statistical methods to analyze and describe a public health problem and health status of populations.
2. Identify, explain, and utilize the basic concepts, methods, and tools of public health data collection, use, and analysis and why evidence-based approaches are an essential part of public health practice.
3. Demonstrate the ability to apply principles of leadership, policy development, program management in the planning, implementation, and evaluation of health programs for individuals and populations.

4. Critically analyze factors affecting health, delivery of health care, and formation of health policy.
5. Critically evaluate published material, interpret, and apply this information in the context of public health practice.
6. Develop and implement research projects relevant to public health.
7. Publish and communicate scientific information.

NORMAL LEARNING MATRIX FOR MASTER OF PUBLIC HEALTH PROGRAMME

SEMESTER 1: Foundation courses							
Code	**Course/ Module Title**	**Lectures**	**Tutorials**	**Independent study**	**Practical**	**Total hours**	**Total Credits**
FCM 101	Introduction to Global Health	30	-	50	-	80	8.0
FCM 102	Biostatistics	56	-	24		80	8.0
FCM 103	Epidemiology	56	-	24		80	8.0
FCM 104	Research Methodology	30	20	40	10	100	10.0
FCM 105	Research management and leadership	30	-	30	-	60	6.0
TOTAL		**202**	**20**	**168**	**10**	**400**	**40.0**
SEMESTER 2: Public Health and Diseases							
PHD 101	Sociology of Health and Illness	20	-	40	-	60	6.0
PHD 102	Sexual and Reproductive Health	40	-	80	-	120	12.0
PHD 103	Communicable Disease Control	25	-	35	-	60	6.0

PHD 104	Epidemiology of Non-communicable Diseases	25	-	35	-	60	6.0
PHD 106	Health Promotion	25	-	35	-	60	6.0
PHD 107	Surveillance	25	-	35	-	60	6.0
Total		**160**	**-**	**260**	**-**	**420**	**42.0**

SEMESTER 3: Health System Management and Planning							
Code	**Course/ Module Title**	**Lectures**	**Tutorials**	**Independent study**	**Practical**	**Total hours**	**Total Credits**
HSM 101	Health System and Health Policy	25	-	35	-	60	6.0
HSM 105	Management, Monitoring and Evaluation of Health Projects	30	10	45	15	100	10.0
Research Work	Research Proposal	24	-	120	16	160	16.0
	Dissertation	-	-	660	0	600	60.0
	Manuscript	-	20	40	0	60	6.0
Total		**79**	**30**	**900**	**31**	**980**	**98.0**
TOTAL HOURS AND CREDITS FOR SEMESTER 1, 2 & 3						**1800**	**180.0**

5.2.2 MSc Clinical Research

a) Programme description

This is a two-year programme covering the general field of clinical research, including clinical trials particularly in poverty related diseases: malaria, HIV-AIDS, and tuberculosis. It consists of coursework and dissertation with a strong component of laboratory hands on skills. A candidate who fulfills the above conditions shall be awarded the degree of Master of Science in Clinical Research (MSc Clin Res) of Tumaini University Makumira.

b) Programme learning outcomes

At the end of this course graduates will be able to: -

1. Publish and communicate scientific information!
2. Demonstrate the ability to design and conduct clinical research, analyze results, and answer a research question.
3. Conduct independent research, in carrying out Clinical Trials.
4. Work with clinicians and scientists to initiate and implement clinical research, as well as to disseminate their knowledge and skills with other scientists, both nationally and internationally.
5. Demonstrate the ability to read and critique the clinical research literature.
6. Present clinical research findings (from literature or their own research) to peers.
7. Pursue advanced studies leading to higher education, especially PhD.

NORMAL LEARNING MATRIX FOR MSc IN CLINICAL RESEARCH PROGRAMME.

Semester 1: Cluster 1 - Foundation Course and core modules taken by all MSc students.

Year 1: Semester 1.							
Codes	**Course/Module Title**	**Lectures**	**Tutorial**	**Independent**	**Practical**	**Total hours**	**Total Credits**
FCM 101	Introduction to Global Health	20	-	40	-	60	6.0
FCM 102	Biostatistics	56	-	24		80	8.0
FCM 103	Epidemiology	56	-	24		80	8.0
FCM 104	Research Methodology	0		40	10	60	6.0

FCM 105	Research management and leadership	20	-	30	20	60	6.0
Total		**152**	**-**	**158**	**30**	**340**	**34.0**
CR601	ICT and computer skills	15	10	25	10	60	6.0
CR605	Basic Microbiology	15	10	25	10	60	6.0
CR606	Bioethics and Data Management	15	10	25	10	60	6.0
CR607	Molecular Biology	15	10	25	10	60	6.0
CR608	Molecular Biology Techniques	15	20	45	10	90	9.0
CR609	Cellular and Molecular Immunology	15	20	45	10	90	9.0
CR610	Applied Immunology	15	10	25	10	60	6.0
Total		**105**	**90**	**215**	**70**	**480**	**48.0**

Year 1: Semester 2

Codes	Course/Module Title	Lectures	Tutorial	Practical	Independent study	Total hrs	Total Credits
CR611	Clinical Research Management and Administration	60	60	60	60	60	6.0
CR612	HIS & PR	60	60	60	60	60	6.0
CR613	Techniques in Immunology	15	10	10	25	60	6.0
CR614	Clinical Pharmacology	20	-	30	50	100	10.0
CR615	Communicable and non-communicable diseases	15	10	10	25	60	6.0
CR616	Field Attachment	0	0	0	30	30	3.0
CR617	Techniques in Medical Microbiology	60	10	20	45	90	9.0
Research proposal		20	0	50	30	100	10.0
Total		**250**	**20**	**240**	**325**	**560**	**56.0**

Year 2: Semester 1 & 2							
CR 699.1	Dissertation	50	50	-	300	500	50.0
CR699.2	Manuscript	-	-	20	40	40	4.0
Total		**50**	**50**	**20**	**340**	**540**	**54.0**
Total hours and credits for Year 1 & 2						**1920**	**192.0**

5.2.3 MSc in Medical Microbiology/Immunology, Molecular Biology

(a) Programme description

This programme is intended to provide knowledge, attitudes, and skills in understanding the interaction between the human body and the various disease etiological agents and the application of techniques used in microbiology and immunology, in investigating the functioning of the human body in health and disease. This highly specialized degree is intended to create competencies in highly specialized medical and biomedical fields and scientific attitudes relating to both public and individual health.

(b) Programme Learning Outcomes

By the end of this programme graduates will be able to

1. Executing standard operating procedures (SOPs) for quality control and assurance (QC&QA) in medical, research, academic and industrial laboratories.
2. Apply acquired knowledge and skills in solving community health problems.
3. Write research grant from national and international donors and work as Principal Investigators (PIs) or co-PIs.
4. Pursue further professional/career development opportunities at PhD level.

NORMAL LEARNING MATRIX FOR MSc MIM PROGRAMME

Semester I: Cluster-1: Foundation course							
Codes	**Course/Module Title**	**Lectures**	**Tutorial**	**Independent study**	**Practical**	**Total hours**	**Total Credits**
FCM 101	Introduction to Global Health	20	-	40	-	60	6.0
FCM 102	Biostatistics	56	-	24	-	80	8.0
FCM 103	Epidemiology	56	-	24	-	80	8.0

FCM 104	Research Methodology			40	10	60	6.0
FCM 105	Research management and leadership	20	-	30	20	60	6.0
Total		**20**	**-**	**158**	**30**	**340**	**34.0**
Semester I: Programme specific modules							
MIM1101	Introductory Microbiology, Immunology and Molecular Biology	20	10	60	-	90	9.0
MIM1107	Systematic Medical Bacteriology	20	10	60	-	90	9.0
MIM1113	Molecular Biology	18	12	30	-	60	6.0
MIM1108	Advanced Medical Bacteriology	10	20	30	-	60	6.0
Total		**68**	**52**	**180**	**-**	**300**	**30.0**
Semester 2: Programme specific modules							
Codes	**Course/Module Title**	**Lectures**	**Tutorial**	**Independent study**	**Practical**	**Total hours**	**Total Credits**
MIM1102	Cellular and Molecular Immunology	10	10	40	-	60	6.0
MIM1103	Immunogenetics	10	10	40	-	60	6.0
MIM1104	Basics of GCLP	10	10	10	30	60	6.0
MIM1105	Techniques in Immunology	10	10	10	30	60	6.0
MIM1106	Microbial Genetics	10	10	10	30	60	6.0
MIM1109	Parasites and parasitic infections	10	10	10	30	60	6.0
MIM1110	Advanced Medical Virology	10	10	10	30	60	6.0
MIM1111	Advanced Medical Mycology	10	10	10	30	60	6.0

MIM1112	Techniques in Medical Microbiology	10	5	15	60	90	9.0
MIM1114	Molecular Biology Techniques	10	5	15	60	90	9.0
MIM1115	Introduction to Bioinformatics	10	10	10	30	60	6.0
MIM 699.1	Proposal writing	20	0	50	30	100	10.0
Total		**130**	**100**	**230**	**360**	**820**	**82.0**
Year 2 Semester 3 &4: Dissertation project							
MIM 699.2	Specific activity						
MIM 699.3	Dissertation	50	50	-	300	500	50.0
MIM 699.4	Manuscript	-	-	20	40	60	6.0
Total		**50**	**50**	**20**	**340**	**560**	**56.0**
Total credits (year-1 and 2)						**1900**	**190.0**

5.2.4 MSc Epidemiology and Applied Biostatistics

a) Programme Description

This course is designed to cover the basic and advanced concepts of epidemiology and many advanced techniques in biostatistics. Therefore, the course train personnel who can and competent in analyzing and interpreting data. The course aims to equip graduates with advanced knowledge in epidemiology and biostatistics and that have latest skills in analytical epidemiology and biostatistics.

b) Programme learning outcomes

At the end of the course, graduates will be able to: -

1. Communicate with other epidemiologists and biostatisticians about technical issues and problems and be able to work within a health team to analyze data.
2. Apply state-of-the-art statistical software to conduct statistical analyses.
3. Analyze medical literature research findings to make appropriate decisions.
4. Design and carry out different types of epidemiological studies independently or in collaboration.
5. Critically appraise different types of studies (cross-sectional, case-control, cohort, clinical trials, and systematic review)
6. Translate the data analyses output into public health implications, proposed areas, and directions of further research.
7. Provide epidemiologic and statistical advice to other researchers from different disciplines.
8. Advance to higher education, especially PhD and later postdoctoral studies.

NORMAL LEARNING MATRIX FOR MSc EPIDEMIOLOGY AND APPLIED BIOSTATISTICS PROGRAMME

Year 1 Semester 1: Cluster 1 - Foundation Course and core modules taken by all MSc students.

Codes	Course/Module Title	Lectures	Tutorial	Independent study	Practical	Total hours	Total Credits
FCM 101	Introduction to Global Health	20	-	40	-	60	6.0
FCM 102	Biostatistics	56	-	24		80	8.0
FCM 103	Epidemiology	56	-	24		80	8.0
FCM 104	Research Methodology			40	10	60	6.0
FCM 105	Research management and leadership	20	-	30	20	60	6.0
Total		**20**	**-**	**158**	**30**	**340**	**34.0**

Cluster 2: Computing sessions			Lecture	Tutorial	Independent study	practical	Total hrs	Credits
CSM	111	Introduction to Stata	20	-	40	-	60	6.0
CSM	112	Data collection MS Access	15	-	30	15	60	6.0
Cluster 3: Teaching, critical thinking, and learning skills.								
Cluster 4: Advanced Epidemiology Modules								
AEM	111	Advanced Study Designs	40	20	20	80	8	8.0
AEM	112	Surveillance	20	-	30	10	60	6.0
AEM	113	Epidemiology of Communicable Disease	20	-	40	-	60	6.0
AEM	114	Epidemiology of Non-Communicable Disease	20	-	40	-	60	6.0-

AEM	115	Screening and Diagnostics	15	-	40	5	60	6.0
Total Semester 1							**368**	**36.8**

Year 1: Semester 2			**Lectures**	**Tutorial**	**Practical**	**Independent study**	**Total hours**	**Total Credits**
Cluster 5: Advanced Epidemiology Modules continued								
AEM	121	Bioethics and GCP	15	-	40	5	60	6.0
AEM	122	Management, Monitoring and Evaluation of Health Projects	15	-	40	5	60	6.0
Cluster 6: Advanced Biostatistics Modules								
ABM	121	Linear regression	20	20	20	10	70	7.0
ABM	122	Logistic regression	20	20	20	10	70	7.0
ABM	123	R- Statistical Package	30	10	10	15	60	6.0
ABM	124	Survey Methods	15	-	30	15	60	6.0
ABM	125	Likelihood Theory	15	-	30	15	60	6.0
ABM	126	Introduction to survival analysis (Poisson regression)	30	15	15	10	70	7.0
Cluster 7: Research proposal development								
RPD	121	Research proposal	-	20		80	100	10.0
Total Semester 2							**610**	**64.0**

Year 1: Semester 3		**Lectures**	**Tutorial**	**Practical**	**Independent study**	**Total hours**	**Total Credits**
Cluster 8: Student field placement							
SFP 231	Attachment to a research institute	-	-	-		60	6.0
Cluster 9: Advanced Biostatistics modules							

ABM 231	Advanced Survival analysis	30	20	10	10	70	7.0
ABM 232	Multi-level models	30	20	10	10	70	7.0
ABM 233	Advanced strategies of analysis	30	20	10	10	70	7.0
ABM 234	Principal Components Analysis & Structural Equation Modeling	20	10	10	20	60	6.0
ABM 235	Longitudinal Data Analysis	30	20	10	10	70	7.0
Total Semester 3						**400**	**44.0**

Year 2 Semester 3& 4: Dissertation						
Specific activity	**Lectures**	**Tutorial**	**Practical**	**Independent study**	**Total hours**	**Credits**
Dissertation	50	50	-	300	400	40.0
Manuscript	-	-	20	40	40	4.0
Total year-II					440	44.0
Total credits (Year-1 and 2)					**2158**	**215.8**

5.2.5 MSc In Medical Parasitology and Entomology

a) Programme description

The course covers the general field of Entomology and Parasitology within the context of public health. The two years program consists of course work during the first year and research work during the second year. Field and laboratory work will be fully integrated into the course work. Upon successful completion of the programme, the candidate will be awarded a degree of Master of Science (MSc.) in Medical Entomology and Clinical Parasitology of Tumaini University Makumira.

b) Program expected learning outcomes

By the end of this program, graduates should be able to:

1. Identify the major parasites, vectors, and intermediate hosts.

2. Demonstrate understanding of morphology, the biology and the life cycles of the major parasites and their vectors or intermediate hosts.
3. Demonstrate understanding of the pathogenesis, pathology and clinical manifestations of the major parasitic diseases and the immune responses to these parasites.
4. Apply methods available for chemotherapy, control, and prevention of parasitic infections.
5. Apply statistical methods and interpret epidemiological data of major parasitic infections.

NORMAL LEARNING MATRIX FOR MSc MEDICAL PARASITOLOGY AND ENTOMOLOGY PROGRAMME

SEMESTER 1: Foundation course							
Codes	**Course/Module Title**	**Lectures**	**Tutorial**	**Independent**	**Practical**	**Total hours**	**Total Credits**
FCM 101	Introduction to Global Health	20	-	40	-	60	6.0
FCM 102	Biostatistics	56	-	24		80	8.0
FCM 103	Epidemiology	56	-	24		80	8.0
FCM 104	Research Methodology			40	10	60	60.0
FCM 105	Research management and leadership	20	-	30	20	60	6.0
Total hours and credits for semester 1						**340**	**34.0**

Year 1 Semester 1:

Codes	**Course/Module Title**	**Lectures**	**Tutorials**	**Assignments**	**Practical**	**Total hours**	**Total Credits**
PE702	Molecular Biology	15	25	45	15	100	10.0
PE701	Immunology	10.5	17.5	31.5	10.5	70	7.0
PE703	Environmental Health	20	-	30	20	60	6.0

PE707	(Systematics, parasite-vector parasite interactions)	10	20	40	10	80	8.0
PE713	External Morphology	20	-	30	20	60	6.0
PE714	Internal Morphology	20	-	30	20	60	6.0
TOTAL HOURS AND CREDITS IN SEMESTER 1						**430**	**43.0**

Year 1 SEMESTER 2							
Code	**Course/Module Title**	**Lectures**	**Tutorials**	**Assignments**	**Practical**	**Total hours**	**Total Credits**
PE715	Insect Physiology	20	-	30	20	60	6.0
PE716	Dipterans	15	20	40	15	90	90.0
PE717	Non-Dipterans		17.5	31.5	10.5	70	7.0
PE718	Field & Lab Techniques		17.5	31.5	10.5	70	7.0
PE708	Blood Protozoa	10	20	40	20	90	9.0
PE709	Non-Blood protozoa	20	-	30	20	60	6.0
PE710	Cestodes	20	-	30	20	60	6.0
PE711	Trematodes	20	-	30	20	60	6.0
PE712	Nematodes		20	40	20	80	8.0
PE 799.1	Research Proposal		20		80	100	10.0
TOTAL HOURS AND CREDITS IN SEMESTER 2						**740**	**74.0**

Year 2 Semester 4: Dissertation						
Specific activity	**Lectures**	**Tutorial**	**Practical**	**Independent study**	**Total hours**	**Credits**
7.99.2 Dissertation	50	50	-	300	400	40.0
799.3 Manuscript	-	-	20	40	40	4.0
Total year-II					440	44.0

Total credits (Year-1 and 2)	**1970**	**197.0**

5.2.6 MSc in Urology

a) Programme description

This is two-year super specialist programme. Graduate in MSc Urology will be expected to augment the national need for specialists in urology, which will improve the roles expected of Tanzanian Consultant Hospitals in teaching, service, and research.

b) Programme learning Outcomes

By the end of this programme graduates will be able to: -

1. Work independently in a Regional or District Hospital.
2. Organize urological programmes for a Region, supervise and teach AMO's (urology) and conduct independent field surveys.
3. Demonstrate skills, attitude and ethics associated with the profession of a urologist.

NORMAL LEARNING MATRIX FOR MSc UROLOGY PROGRAMME

Year 1 Semester 1: Foundation courses							
Codes	**Course/Module Title**	**Lectures**	**Tutorial**	**Independent study**	**Practical**	**Total hours**	**Total Credits**
FCM 101	Introduction to Global Health	20	-	40	-	60	6.0
FCM 102	Biostatistics	56	-	24		80	8.0
FCM 103	Epidemiology	56	-	24		80	8.0
FCM 104	Research Methodology			40	10	60	6.0

FCM 105	Research management and leadership	20	-	30	20	60	6.0
Total hours and credits for semester 1						**340**	**34.0**

YEAR 1: SEMESTER 1								
Code	**Course/Module Title**	**Lectures**	**Tutorial**	**Assignments**	**Independent studies**	**Practical**	**Total hours**	**Total Credit**
KMCW 1101	Clinical work (ward round, bedside teaching, outpatient clinic, diagnostic & surgical operative procedures			**90**	**60**	**150**	**300**	**30.0**
KMUE 1102	Urologic Examination and Diagnostic Techniques	**15**		**21**	**15**	**9**	**60**	**6.0**
KMIG 1103	Infection and inflammation of GUS	**30**		**42**	**30**	**18**	**120**	**12.0**
KMVD 1104	Voiding dysfunction	**15**		**21**	**15**	**9**	**60**	**6.0**
KMBH 1105	Benign prostatic hyperplasia	**15**		**21**	**15**	**9**	**60**	**6.0**
TOTAL HOURS AND CREDITS IN SEMESTER 1							**600**	**60.0**
YEAR 1: SEMESTER 2								
KMCW 1206	Clinical work (ward round, bedside teaching, outpatient clinic, diagnostic & surgical operative procedures			78	52	130	260	26.0
KMRP 1207	Research proposal			20	10	30	60	6.0
KMRF 1208	Reproductive function & dysfunction			26	20	14	60	6.0
KMSF 1209	Sexual function& dysfunction	15		21	15	9	60	6.0
KMEG 1210	Embryology of GUS	15		21	15	9	60	6.0

KMPU 1211	Pediatric urology	23	35	30	12	100	10.0
TOTAL HOURS AND CREDITS IN SEMESTER 2						**600**	**6.00**

YEAR 2: SEMESTER 3								
Code	**Course/Module Title**	**Lectures**	**Tutorial**	**Assignments**	**Independent studies**	**Practical**	**Total hours**	**Total Credit**
KMCW 2312	Clinical work (ward round, bedside teaching, outpatient clinic, diagnostic & surgical operative procedures			93	62	155	310	31.0
KMDC 2313	Data collection				10	50	60	6.0
KMUO 2314	Urologic oncology	15		21	15	9	60	6.0
KMDA 2315	Data analysis			15	5	50	70	7.0
KMSW 2317	Scientific writing workshop	5		7	3	15	30	3.0
TOTAL HOURS AND CREDITS IN SEMESTER 3							**600**	**60.0**

YEAR 2: SEMESTER 4								
Code	**Course/Module Title**	**Lectures**	**Tutorial**	**Assignments**	**Independent studies**	**Practical**	**Total hours**	**Total Credit**
KMCW 2418	Clinical work (ward round, bedside teaching, outpatient clinic, diagnostic & surgical operative procedures)			80	50	120	250	25.0
KMCP 2419	Carcinoma of the prostate	15		21	15	9	60	6.0

KMUL 2420	Urinary lithiasis	15		21	15	9	60	6.0
KMRT 2421	Renal failure & transplant			26	20	14	60	6.0
KMUS 2422	Urologic surgery	15		21	15	9	60	6.0
KMUI 2423	Use of intestinal segments in urology	15		21	15	9	60	6.0
KMDW 2316	Dissertation writing			10	10	50	70	7.0
	Manuscript				20	40	40	4.0
TOTAL HOURS AND CREDITS IN SEMESTER 4							**660**	**66.0**
TOTAL HOURS AND CREDITS IN SEMESTER 1-4							**2220**	**222.0**

5.2.7 MSc Anatomy and Neuroscience

a) Programme Description

This programme intends to produce a cadre of Master-level clinical anatomists and neuroscientists educators cum researchers, capable of teaching all the medical and paramedical disciplines at undergraduate, graduate, or professional students, and who can produce high-quality research and other scholarly work necessary for promotion and tenure.

b) Programme learning Outcomes

By the end of this programme graduates will be able to: -

1) Describe in detail the embryology, histology, and gross organization of human body by systems and regions, and scientifically describe the common variations and congenital malformations of clinical relevancy.
2) Demonstrate advanced clinical anatomical knowledge and handling skills, relevant in surgical and basic clinical examinations.
3) Become a competent clinical anatomy teacher by learning the teaching methodologies and demonstrate teaching ability in real time.

4) Demonstrate a detailed knowledge and critical understanding of clinical anatomy and neuroscience gained through dissections and independent research.
5) Synthesize and critically evaluate published information and present it in written or oral format to both specialist and non-specialist audiences.
6) Pursue, under supervision, independent clinical anatomy related research project.
7) Demonstrate knowledge of key experimental methodologies used to answer research questions in clinical anatomy and neuroscience.
8) Conduct scientific enquiry and ethical responsibility in undertaking research on human subjects in clinical anatomy and neuroscience.
9) Apply an empirical approach to problem solving.

NORMAL LEARNING MATRIX FOR MSc ANATOMY AND NEUROSCIENCE PROGRAMME

Year 1: SEMESTER 1: Foundation courses							
Codes	**Course/Module Title**	**Lectures**	**Tutorial**	**Independent**	**Practical**	**Total hours**	**Total Credits**
FCM 101	Introduction to Global Health	20	-	40	-	60	6.0
FCM 102	Biostatistics	56	-	24		80	8.0
FCM 103	Epidemiology	56	-	24		80	8.0
FCM 104	Research Methodology			40	10	60	6.0
FCM 105	Research management and leadership	20	-	30	20	60	6.0
Total hours and credits for semester 1						**340**	**34.0**

Year 1 Semester 1: Programme specific modules							
CMB 501	Advanced cell structure and biology	20	20	40	-	80	8.0
EM 500	Education methods and evaluation	30	-	20	50	100	10.0
Total hours and credits for semester 1						**180**	**18.0**
Year 1: SEMESTER 2: Basic Clinical anatomy courses							
SA 502	Functional human anatomy 1	60	20	-	70	150	15.0
HES 501	Systemic human embryology	30	20	40		90	9.0
HTC 601	Microscopy and histotechnology	15	15	15	15	60	6.0
ALT 501	Applied anatomy laboratory y technology	30	10	20	40	100	10.0
HHS 501	Systemic human histology	10	15	10	25	60	6.0
NS 501	Brain anatomy and functional neuroscience	15	-	15	30	60	6.0
Total hours and credits for semester 2						**520**	**52.0**

Year 2: SEMESTER 3: Advanced Clinical anatomy courses and Research development							
Codes	**Course/Module Title**	**Lectures**	**Tutorials**	**Self-**	**practical**	**Total hours**	**Total credits**
ME 601	Molecular embryology and tissue culture	20	10	20	30	80	8.0
RES 601	Proposal development		20		80	100	10.0
Total hours and credits for semester 3						**180**	**18.0**
Year 2 SEMESTER 4: Genetics, Hygiene, Basic radiology, and Dissertation							
HDG 601	Human development and genetics	20	20	40	-	80	8.0
MBT 601	Microbiology and Biotechnology	10	14	30	10	60	6.0
BRA 601	Basic Radiology	15	10	25	10	60	6.0
RES 60 2	Dissertation	50	50		300	400	40.0
	Manuscript	-	-		40	40	4.0
Total hours and credits for semester 4						**640**	**64.0**
TOTAL HOURS AND CREDITS IN SEMESTER 1, 2,3 & 4						**1860**	**186.0**

5.2.8 MSc in Midwifery Programme

a) Programme description

The Master of sciences in midwifery is a full time two years programme that has been divided into 4 semesters, which consist of coursework, clinical practice, and dissertation.

The programme is designed to address the urgent needs and demands in the country and the region for primary care practitioners who are competent and skilled in Midwifery and Women's Health. Trainees will function as primary care providers, leaders in clinical practice, researchers, and nurse educators in 5.2.8 the field of Midwifery and Women's Health in Tanzania.

The practice of midwifery requires acquisition of knowledge, skills and attitudes that embrace compassion, respect, empathy, and legal consideration in the provision of care.

b) Programme learning outcomes

Upon completion of the programme, graduates shall be able to:

1. Assess plans, provides, and evaluates evidence-based midwifery care for the women and/or baby with complex needs.
2. Apply midwifery ethics, human right principle and effective decision making in health care delivery.
3. Evaluate delivery methods based on the outcomes in relation to mother and neonate health conditions.
4. Function in accordance with legislation and common law affecting midwifery practice.
5. Apply systematic approach during interventions in neonatal crisis.
6. Promote safe and effective midwifery care and to facilitate decision making by the woman and/or their families.
7. Carry out research related to reproductive health, midwifery, and neonatal care.

NORMAL LEARNING MATRIX FOR MSc IN MIDWIFERY PROGRAMME

Year 1 SEMESTER 1: Foundation courses							
Codes	**Course/Module Title**	**Lectures**	**Tutorial**	**Independent study**	**Practical**	**Total hours**	**Total Credits**
FCM 101	Introduction to Global Health	20	-	40	-	60	6.0
FCM 102	Biostatistics	56	-	24		80	8.0
FCM 103	Epidemiology	56	-	24		80	8.0
FCM 104	Research Methodology			40	10	60	6.0
FCM 105	Research management and leadership	20	-	30	20	60	6.0
Total hours and credits for semester 1						**340**	**34.0**

Codes	**Course/Module Title**	**Lecture**	**Tutorial**	**Practical**	**Independent studies**	**Total Hours**	**Total Credit**
KMLM 1105	Leadership and Management	18	-	36	6	60	6.0
KMEA 1106	Educational Approaches	18	-	36	6	60	6.0
KMCL 1107	Cultural, Legal and Political Perspectives of Maternal And Infant	36	27	-	27	90	9.0
Semester 2.0							
KMHP 1209	Health Policy and Planning	24	18	-	18	60	6.0
KMAP 1210	Advanced Practice In Midwifery	56	-	112	12	180	18.0
KMRH 1211	Reproductive Health, HIV And Aids	27	-	54	9	90	9.0

RES 1211	Research proposal	-	20	-	80	100	10.0
Semester 3							
KMAM 2113	Advanced Midwifery Science	45	-	90	15	150	15.0
KMAN 2114	Advanced Neonatal Science	36	-	60	12	100	10.0
KMIM 2115	Integrated Advanced Midwifery Practicum	62	-	126	22	200	20.0
Semester 4.0							
KMCM 2216	Community Midwifery	45	-	90	15	150	15.0
KMDI 2217	Dissertation	-	-	260	-	260	26.0
	Manuscript					40	4.0
Total						**1880**	**188.0**

5.2.9 Master of Science in Monitoring and Evaluation for Health Programmes (MSc MEHP).

a) Programme description

The general objective of the MSc MEHP program learning objective is to develop a corps of competent professionals in Health Monitoring and Evaluation who are capable of designing, implementing and utilizing different frameworks to enhance planning, monitoring and evaluation of public health interventions; conduct needs assessment, formative assessment and operational research to assist the design and implementation of health care interventions; understand the social, economic, cultural and institutional contexts of health programs, through clearly articulated learning outcomes.

This programme is designed to meet the training needs of people who intend to become monitoring and evaluation practitioners in the public and private sectors, especially in the fields of

programmes, projects, development, health, education, and environmental fields.

(b) Programme Learning outcomes.

(i) Provide students with sound theoretical and scientific grounding in M&E principles and frameworks;

(ii) Equip students with multi-disciplinary expertise and practical skills for planning, designing and implementation of M&E programmes.

NORMAL LEARNING MATRIX FOR MSc in MEHP

Course Code	Course Name	Core or Elective	Lecture	Tutorial Seminar	Assignment	Individual study	Practical study	Total Hours	Credit
YEAR 1, SEMESTER 1									
ME 1101	Introduction to Global and national Health and Health Systems	core	24	16	16	14	8	80	8.0
ME 1102	Biostatistics	core	45	10	15	15	15	100	10.0
ME 1103	Research Methods	core	35	8	10	15	12	80	8.0
ME 1104	Epidemiology: Principles and Methods	core	25	10	15	15	15	80	8.0
ME 1105	Global Development Goals, Health, and Sustainability	core	45	10	15	29	15	100	10.0
ME 1106	Fundamentals and approaches of M&E	core	45	10	15	33	15	100	10.0
ME1107	Leadership and	core	25	10	15	33	15	80	8.0

	Management in Health Programs								
Total Hours and Credits for Semester 1								**620**	**20.0**
YEAR 1, SEMESTER 2									
Code	Module	Core or Elective	Lecture (30%)	Tutorial Seminar (20%)	Assignment (20%)	Individual study (20%)	Practical study (10%)	Total Hours	Credit
ME 1108	Monitoring and evaluating the impact of health programmes	Core	15	15	30	40	40	140	14.0
ME 1109	Entrepreneurship and Consultancy skills in Health	Core	30	20	30	60	70	210	21.0
ME 1110	Research Methods and Proposal development	Core	20	10	20	30	50	125	12.5
ME 1111	Scientific Writing	Core	20	10	25	30	40	125	12.5
Total hours and credits for semester 2								**600**	**60.0**
YEAR 2 SEMESTER 3 & 4									
Code	Module	Core or Elective	Lecture (30%)	Tutorial Seminar (20%)	Assignment (20%)	Individual study (20%)	Practical study (10%)	Total Hours	Credits
ME 1212	Research Field Work		-	100	125	125	150	500	50.0
ME 1213	Dissertation and Publishable Manuscript		-	140	175	210	150	700	70.0
Total hours and credits for semester 2								**1200**	**120.0**
Total hours and credits for semester 1, 2, 3 &4								**2420**	**242.0**

5.2.10 Master of Medicine Programmes

a) Programme Description

The MMed training at KCMU College is four (4) years programme. It is designed for qualified medical practitioners who are strongly motivated towards a specialist career in Medical Sciences and Academic Medicine. Those who graduate in these courses will be expected to augment the national need for specialists in medical disciplines, which will improve the roles expected of Tanzanian Consultant Hospitals in teaching, service, and research.

b) Programme Learning outcomes

Upon completion graduate of MMed will be able to: -

1. Implement all legal and ethical requirements pertaining to the contemporary practice of medicine.
2. Manage all aspects of patient care, including adverse outcomes, as part of a multidisciplinary healthcare team
3. Demonstrate an in-depth knowledge of the principles of health service management and be capable of incorporating these into clinical practice.
4. Formulate research hypotheses, design experimental studies and conduct research in a scientific and ethical manner.
5. Critically evaluate the role of molecular and cellular biology in the etiology of disease [translational medicine strand]
6. Appraise the role and potential importance of molecular techniques / approaches in the diagnosis and therapy of disease [translational medicine strand]
7. Discuss the role of the doctor in the primary and secondary prevention of disease at population level.
8. Critically appraise research data and write research reports.
9. Evaluate the key concepts of global health and examine the major challenges affecting health systems and health outcomes globally [population health and health implementation strand]

NORMAL LEARNING MATRIX FOR MMED PROGRAMMES

(a) Overview of Semesters 1- 8 (years 1-4)

Semester 1

In semester one all MMed candidates whatever the specialty will be full time engaged in 5 Basic Sciences modules (modules 1-5) from beginning of the Academic Year in October until the December. From the mid December candidates will be in their respective specialty departments.

Semester 2

From March to July the candidates will be in the respective departments belonging to their specialty. In this period there will be another three Basic Sciences modules specific for the discipline (modules 9 and 10). Foundation courses (5 modules) on Global health, epidemiology, biostatistics, research methods and research management will be done.

Semesters 3 and 4

Semester 3 and 4 of year 2: main emphasis is on learning and experiencing the specialty of training, and on rotations through different sub-specialties of the specialty. Also, she/he takes part in the academic activities of the department (Journal Club, case presentations, protocol meetings, post-mortem meetings, etc.).

Semester 5 and 6

Semesters 5 and 6 of year 3: in semester 5 data collection for the research must take place and the data must be analyzed and reported in a dissertation, to be submitted early July in semester 6 for assessment.

Apart from the research work, the resident continues to be involved in clinical work (both caring for in- and out-patients, performing procedures, operations etc. as appropriate to the specialty), as well as taking part in academic activities of the department.

Semester 7 and 8

Semesters 7 and 8 in year 4: in this final year the resident works semi independently under global supervision of the consultants,

participating fully in all activities of the department and teaching selected topics to undergraduates.
At the end of semester 8 he/she sits for the Final University Examination.
Rotations can be undertaken inside or outside (external rotation) KCMC/KCMU College. Each rotation must be assessed according to a given format. Prior approval for external rotations (= outside KCMC/ KCMU College) must be obtained from the Director of Postgraduate Studies.

Duty hours

Residents should average no more than 80 hours per week in patient care activities. They should have at least one day in seven free of patient care and be on call no more than one night in three.

(b) MMED Programmes evaluation

(i) The effectiveness of the programme shall be regularly evaluated by faculty and residents with respect to the quality of the programme and the extent to which the educational goals are met.

(ii) The teaching faculty shall be regularly evaluated, and shall include evaluation of clinical knowledge, teaching ability and commitment.

(iii) Residents shall be evaluated regularly with respect to their knowledge, skills, and overall performance. All evaluations will be kept by the coordinator.

(iv) Before submission of the dissertation for marking, concurrently, the student, supervisors and the Head of department shall ensure that manuscripts have been written from the student's work and at least one has been sent for publication in a peer reviewed Journal of the subject. The student and supervisors shall also show evidence that the rest of the student's work is in manuscripts form to be further developed by the candidate in consultation with his/her supervisor towards publication(s) in peer reviewed journals.

(v) No candidate shall be allowed to sit for the final examination without evidence of fulfilling the requirement of publications in regulation above (5.2.10(b) (iv - v).

(c) MMed Examination Schedule

A. Year 1 Semester 1: Foundation course: 5 Modules = MAT 1-5
B. Year 1: Semester 1: Basic Sciences: 5 Modules = MAT 6-10

C. Year 1: Semester 2: Specialty courses = MAT 11-12
D. Year 2: Semester 3: Specialty courses = ESAT 1
E. Year 2: Semester 4: Specialty courses = ESAT 2
F. Year 3: Semester 5: Specialty courses = ESAT 3 & 4
G. Year 3: Semester 6 Specialty course, Research & Dissertation = ESAT 5
H. Year 4 Semester 7 & 8: Specialty courses = ESAT 6

(d) MMED Assessment and Dissertations

(i) The dissertation options for MMed residents therefore are:
(ii) The present formal research project
(iii) Series of minimally 10 cases with different diagnoses, which were largely managed by the MMed resident
(iv) Series of minimally 5 cases with the same or similar diagnosis, which were largely managed by the MMed resident
(v) Cochrane review-like meta-analysis of a clinical entity, leading to a new or improved management protocol.

5.2.10.1 MMed in Dermatovenereology

a) Programme Description

Th. e four-year training programme in dermato-venereology will provide the trainees with the educational and practical experience that will permit them to deliver highly qualified specialized care to patients with skin diseases, leprosy, and sexually transmitted

infections (STIs) including HIV/AIDS. In addition to an extensive knowledge of general dermato-venereology the graduate will be a highly trained expert for all dermato-epidemiological and community health aspects contributing to the prevalence of skin diseases and allied fields.

b) Programme Learning outcomes

By the end of the programme residents acquired the essential practical skills including:

1. Essential principles and techniques of history taking and examination of skin, visible mucous membranes, Genito-urinary tract, the eye, and neighboring structures.
2. Basic investigation of venous and lymphatic systems including physical examination
3. Palpation of peripheral nerves with sensory and voluntary muscle function test
4. Genetic counselling on pattern of inheritance and recurrence risk
5. Staining procedures and cultures for microbes (e.g., fungi, bacteria)
6. Diagnostic skin procedures, such as microscopic analysis of biological specimens (e.g., fungal and ectoparasitic scrapings, Tzank preparations, dark-field illumination, oncho-snips, slit skin smears for AFBs)

NORMAL LEARNING MATRIX FOR MMED IN DERMATOVENEREOLOGY PROGRAMME

Year 1 Semester 1 (Foundation courses)

CODES	Module (MAT 1-5)	Lectures	Tutorial	Independent study	Practical	Total hours	Total Credits
FCM 101	Introduction to Global Health	20	-	40	-	60	6.0
FCM 102	Biostatistics	56	-	24		60	8.0
FCM 103	Epidemiology	56	-	24		60	8.0

FCM 104	Research Methodology			40	10	60	6.0
FCM 105	Research management and leadership	20	-	30	20	60	6.0
Total hours and credits for semester 1						**300**	**30.0**

Year 1: Semester 1: Basic Sciences

CODES	**Module: MAT 6-10**	**Lectures**	**Tutorial**	**Independent study**	**Practical**	**Total hours**	**Total Credits**
MD1101	Anatomy	20	10	10	20	60	6
MD1102	Pathology	20	10	10	20	60	6
MD1103	Physiology	20	10	10	20	60	6
MD1104	Clinical Pharmacology	20	10	10	20	60	6
MD1105	Immunology& Genetics	20	10	20	10	60	6
Total hours and credits for semester 1						**300**	**30.0**

Year 1: Semester 2 (MAT 11-12)

CODES	(MAT 11)	Lectures	Tutorial	Independent study	Practical	Total hours	Total Credits
MDV 100.1	Anatomy of the skin and its appendages	20		15	40	75	7.5
MDV 100.2	Physiology of Skin and its appendages	20		15	40	75	7.5
MDV 100.3	Neurophysiology of peripheral nerves	20		15	40	75	7.5
MDV 100.4	Immunology of Skin	20		15	40	75	7.5
	MAT 12					300	30
MDV 100.5	Drugs & other dermatological therapies	20		15	40	75	7.5
MDV 100.6	Eczema	20		15	40	75	7.5
MDV 100.7	Psoriasis	20		15	40	75	7.5
MDV 100.8	Infection and Infestations	20		15	40	75	7.5
TOTAL HOURS AND CREDITS IN SEMESTER 2						**300**	**30.0**

Year 2: Semester 3: Specialty courses (ESAT 1)

CODES	Module Title	Lectures	Tutorials	Independent study	Practical	Total hours	Total Credits
	Research Proposal	-	20	80	-	100	10.0
MDV 200.1	Connective Tissue Disorders	16	16	30	63	125	12.5
MDV 200.2	Parapsoriasis and other Papulosquamous	16	16	30	63	125	12.5
MDV 200.3	Autoimmune Blistering disorders	16	16	30	63	125	12.5
MDV 200.4	Dermato-Surgery	16	16	30	63	125	12.5
TOTAL HOURS AND CREDIT IN SEMESTER 3						**600**	**60.0**

Year 2: SEMESTER 4 (ESAT 2)

MDV 300.1	HIV	16	16	25	63	120	12.0
MDV 300.2	STIs & other ano-genital conditions	16	16	25	63	120	12.0
MDV 300.3	Leprosy	16	16	25	63	120	12.0
MDV 300.4	Nutrional Disorders	16	16	25	63	120	12.0
MDV 300.5	Ulcers and Cysts	16	16	25	63	120	12.0
TOTAL HOURS AND CREDIT IN SEMESTER 4						**600**	**60.0**

Year 3: SEMESTER 5 (ESAT 3 & ESAT 4)

MDV 400.1	Research Proposal		50	100	-	150	15.0
MDV 400.2	Adnexal Disorders	16	16	30	88	150	15.0
MDV 400.3	Drug Reactions	16	16	30	88	150	15.0
MDV 400.4	Pigmentary Disorders	16	16	30	88	150	15.0
TOTAL HOURS AND CREDITS FOR SEMESTER 5						**600**	**60.0**

Year 3 SEMESTER 6 (ESAT 5 AND DISSERTATION)

Codes	**Module title**	**Lectures**	**Tutorials**	**Self-study**	**Practical**	**Total hrs**	**Total credits**
MDV	Research Dissertation		100	200	40	340	34.0
MDV	Scientific writing	20	-	-	40	60	6.0
MDV500.1	Genetic Disorders	30	20	50	100	200	20.0
TOTAL HOURS AND CREDITS FOR SEMESTER 6						**600**	**60.0**

Year 4 SEMESTER 7 (ESAT 6)

MDV 500.2	Vasculitis	20	20	60	100	200	20.0
MDV 500.3	Pregnancy Dermatoses	20	20	60	100	200	20.0

MDV 500.4	Cutaneous tumors and neoplasms	20	20	60	100	200	20.0
TOTAL HOURS AND CREDITS FOR SEMSETER 7						**600**	**60.0**

Year 4 SEMESTER 8 (ESAT 6)

MDV 600.1	Deposit disorders	16	16	30	73	135	13.5
MDV 600.2	Mastocytosis	16	16	30	73	135	13.5
MDV 600.3	Public Health and Dermatology	16	16	30	73	135	13.5
MDV 600.4	Oral diseases	16	16	30	73	135	13.5
MLM 600.5	Leadership and Management	20	-	20	20	60	6.0
TOTAL HOURS AND CREDITS FOR SEMSETER 8						**600**	**60.0**
TOTAL HOURS AND CREDITS (Year 1,2,3,4)						**4840**	**48.4**

5.2.10.2 MMed in Ophthalmology

(a) Programme Description

Master of Medicine Ophthalmology is a four-year postgraduate university programme that aims at producing fully competent specialists in ophthalmology who understand the scientific basis of diseases, have command of the clinical cognitive skills and surgical know-how of the profession.

(b) Programme Learning Outcomes.

By the end of this programme residents will be able to: -

1. Describe the principles and practice of optics and refraction.
2. Practice general medical and surgical ophthalmology.
3. Explain the scientific basis of diseases as well as the scientific basis clinical and surgical practice.
4. Practice ethical principles associated with the profession of ophthalmology.

5. Plan and implement intervention measures required for prevention of blindness and ophthalmic public health.
6. Evaluate principles and practices of low vision therapy and rehabilitative ophthalmic medicine.
7. Conduct research in the field of ophthalmology.

NORMAL LEARNING MATRIX FOR MMED OPHTHALMOLOGY PROGRAMME

Year 1: Semester 1: Foundation courses

Codes	Course/Module Title	Lectures	Tutorial	Independent study	Practical	Total hours	Total Credits
FCM 101	Introduction to Global Health	20	-	40	-	60	6.0
FCM 102	Biostatistics	56	-	24		60	6.0
FCM 103	Epidemiology	56	-	24		60	6.0
FCM 104	Research Methodology			40	10	60	6.0
FCM 105	Research management and leadership	20	-	30	20	60	6.0
Total hours and credits for semester 1						**300**	**30.0**

Year 1 Semester - Basic science

MD1101	Anatomy	20	10	10	20	60	6.0
MD1102	Pathology	20	10	10	20	60	6.0
MD1103	Physiology	20	10	10	20	60	6.0
MD1104	Clinical Pharmacology	20	10	10	20	60	6.0
MD1105	Immunology& Genetics	20	10	20	10	60	6.0
TOTAL HOURS AND CREDITS IN SEMESTER 1						300	30.0

Year 1: Semester 2

Codes	Course/Module Title	Lectures	Tutorial	Practical	Independent study	Total hours	Total Credits
OPH2001	Ocular Anatomy, Physiology and Biochemistry	30	30	40	100	200	20.0
OPH2002	Ocular microbiology, Pharmacology and Genetics	30	30	40	100	200	20.0
OPH0001	Ocular Semiology	30	30	40	100	200	20.0
Total						**600**	**60.0**

Year 2: Semester 3: Specialty courses

Codes	Course/Module Title	Lectures	Tutorial	Practical	Independent study	Total hours	Total Credits
RES 001	Research Proposal	10	10	20	60	100	10.0
OPH3001	Optics and Refraction	15	15	30	100	100	1.00
OPH2007	Ocular Epidemiology	20	10	20	10	60	6.0
OPH4001	Ocular Pathology	20	10	20	10	60	6.0
OPH1101	Cataract	2	2	32	2	120	12.0
OPH1010	Glaucoma	2	2	32	2	80	8.0
OPH0901	Uveitis	2	2	32	2	80	8.0
TOTAL						**600**	**60.0**

YEAR 2 SEMESTER 4

RES 001	Research Proposal						
OPH8001	Cornea and External Diseases	15	15	30	60	120	12.0
OPH6001	Strabismus	15	15	30	60	120	12.0
OPH7001	Orbit	15	15	30	60	120	12.0
OPH5001	Neuro-ophthalmology	15	15	30	60	120	12.0

OPH1201	Retina	15	15	30	60	120	12.0
Total						**600**	**60.0**

YEAR 3 SEMESTER 5

OPH4002	Ocular Trauma	2	2	32	2	120	12.0
OPH9002	Uveitis	2	2	32	2	120	12.0
OPH4003	Ocular Histopathology	2	2	32	2	120	12.0
OPH4004	Ocular Oncology	2	2	32	2	120	12.0
OPH1020	Glaucoma	2	2	32	2	120	12.0
Total						**600**	**60.0**

YEAR 3 SEMESTER 6

Codes	**Module**	**Lectures**	**Tutorial**	**Practical**	**Independent study**	**Total hours**	**Total Credits**
OPH1202	Retina	10	10	28	20	68	12.0
OPH8002	Cornea and External Diseases	10	10	28	20	68	12.0
OPH6002	Pediatrics Ophthalmology	10	10	28	20	68	12.0
OPH7002	Eyelid Disorders	10	10	28	20	68	12.0
OPH5002	Neuro-ophthalmology	10	10	28	20	68	12.0
RES 002	Dissertation		10	160	30	200	20.0
SWR 001	Scientific Writing	10	5		15	60	6.0
Total						**600**	**60.0**

YEAR 4 SEMESTER 7

OPH0002	Preventive Ophthalmic Medicine	30	50	40	70	190	19.0
OPH0003	Rehabilitative Ophthalmic Medicine	30	50	40	70	190	19.0
OPH0302	Low Vision Therapy	10	10	40	20	80	8.0

OPH0004	Evidence Based Medicine	10	15	15	20	60	6.0
OPH5003	Neuro-ophthalmology	10	10	40	20	80	8.0
Total						**600**	**60.0**

YEAR 4 SEMESTER 8

OPH1203	Retina	10	10	40	20	80	8.0
OPH6003	pediatrics Ophthalmology	20	30	30	60	140	14.0
OPH7003	Lachrymal System Disorders	10	10	40	20	80	8.0
OPH1003	Glaucoma	10	10	40	20	80	8.0
OPH7004	Orbit	10	10	40	20	80	8.0
OPH6004	Strabismus	10	10	40	20	80	8.0
	Leadership and Management	20	10	20	10	60	6.0
Total						600	60.0
TOTAL HOURS AND CREDITS YEAR 1,2,3 & 4						4840	484.0

5.2.10.3 MMed in Radiology & Medical Imaging

a) Programme Description

Master of Medicine (Radiology) comprises four years full-time supervised clinical training. On completion of the course, students acquire a defined body of knowledge and procedural skills which will be used to perform diagnostic and therapeutic procedures and to make appropriate clinical decisions. The course endeavors to develop students' analytical and problem-solving skills necessary to function as effective diagnostic radiologists. Candidates are expected to adapt their cognitive and observation skills to enable accurate interpretation of the various medical imaging modalities employed in modern radiology. The course aims to ensure that the qualified radiologist will continue to keep up to date with new developments in imaging, and make learning, teaching, and research a part of the professional career.

b) Programme learning outcomes

By the end of this programme graduates will be able to: -

1. develop analytical and problem-solving skills necessary to function as an effective diagnostic radiologist;
2. develop finely tuned cognitive and observation skill required to enable accurate interpretation of the above modalities;
3. Perform diagnostic and therapeutic procedures and to make appropriate clinical decisions;
4. Keep up to date with new developments in imaging and make learning, teaching, and research a part of their professional career;
5. collaborate effectively with other health professionals for the provision of optimal patient care, education, and research;
6. Execute tasks through teamwork with colleagues.
7. Recognize the need for continued learning and to model this for others.
   Initiate, plan, execute and disseminate clinical research findings.

NORMAL LEARNING MATRIX FOR MMED IN DIAGNOSTIC RADIOLOGY & MEDICAL IMAGING PROGRAMME

Year 1: Semester 1: Foundation courses							
Codes	**Course/Module Title**	**Lectures**	**Tutorial**	**Independent study**	**Practical**	**Total hours**	**Total Credits**
FCM 1101	Introduction to Global Health	20	-	40	-	60	6.0
FCM 1102	Biostatistics	56	-	24		80	8.0
FCM 1103	Epidemiology	56	-	24		80	8.0
FCM 1104	Research Methodology			40	10	60	6.0
FCM 1105	Research management and leadership	20	-	30	20	60	6.0
TOTAL						**340**	**34.0**
Year 1 Semester 1: Basic science							
MD1100	Anatomy	20	10	10	20	60	6.0
MD1106	Pathology	20	10	10	20	60	6.0
MD1107	Physiology	20	10	10	20	60	6.0
MD1108	Clinical Pharmacology	20	10	10	20	60	6.0
MD1109	Immunology& Genetics	20	10	20	10	60	6.0
TOTAL						**300**	**30.0**
Year 1 SEMESTER 2: Specialty courses							
RAD.1210	ICT in radiology	20	10	20	10	60	6.0
RAD.1211	Principles of imaging technology I	20	10	20	10	60	6.0
RAD.1212	Radiation safety	20	10	20	10	60	6.0
RAD.1213	Chest radiology I	10	20	30	40	100	10.0
RAD.1214	Gastro-intestinal and abdominal radiology I	20	10	30	10	70	7.0
RAD.1215	Urogenital radiology I	20	10	20	10	60	6.0
RAD.1216	Musculoskeletal radiology I	20	10	20	10	60	6.0

RAD.1217	Emergency radiology	10	20	40	60	130	13.0
TOTAL						**130**	**13.0**
YEAR 1 SEMESTER 2							
RAD.1218	Principles of imaging technology II	20	10	20	10	60	6.0
RAD.1219	Chest radiology II	20	20	40	20	100	10.0
RAD.1220	Gastro-intestinal and abdominal radiology II	10	20	30	20	80	8.0
RAD.1221	Urogenital radiology II	10	10	25	25	70	7.0
RAD.1222	Musculoskeletal II	10	10	20	30	70	7.0
RAD.1223	Evidence based radiology	20	10	20	10	60	6.0
RAD.1224	Emergency radiology	20	30	30	80	160	16.0
TOTAL HOURS AND CREDITS IN SEMESTER 2						**600**	**60.0**
Year 2: Semester 3: Specialty courses							
RAD.2325	Research Proposal	20	20	60		100	10.0
RAD.2326	Principles of imaging technology III	12	8	10	8	30	3.0
RAD.2327	Breast and Obstetrics I	4	4	15	18	30	3.0
RAD.2328	Head and Neck I	3	15	15	18	45	4.5
RAD.2326	Neuroradiology I	4	8	30	18	50	5.0
RAD.2327	Radio-oncology I	2	12	26	16	45	4.5
RAD.2328	Interventional radiology I	2	10	10	18	40	4.0
RAD.2329	Chest radiology III	4	8	15	18	40	4.0
RAD.2330	Gastro-intestinal and abdominal radiology III	2	10	25	18	40	4.0
RAD.2331	Urogenital radiology III	5	7	20	18	40	4.0
RAD.2332	Musculoskeletal III	2	10	25	18	50	5.0
RAD.2333	Emergency radiology	10	60	30	100	90	9.0
TOTAL		**70**	**172**	**281**	**268**	**600**	**60**

YEAR 2 SEMESTER 4								
RES.2434	Research Proposal	-	-	-	-		-	-
RAD.2435	Breast and Obstetrics II	5	5	10	10	20	50	5.0
RAD.2436	Head and neck II	1	10	4	14	25	60	6.0
RAD.2437	Neuro-radiology II	2	18	3	8	25	60	6.0
RAD.2438	Radio-oncology II	5	5	5	5	15	40	4.0
RAD.2439	Chest radiology IV	10	10	10	20	20	70	7.0
RAD.2440	Gastro-intestinal and abdominal radiology IV	10	10	10	20	25	70	7.0
RAD.2441	Urogenital radiology IV	5	5	5	5	15	40	4.0
RAD.2442	Musculoskeletal IV	5	5	10	10	20	50	4.0
RAD.2443	data collection		20		60	80	70	7.0
RAD.2444	Emergency radiology		60	-	-	30	90	9.0
TOTAL HOURS AND CREDITS IN SEMESTER 4							**600**	**60.0**

YEAR 3 SEMESTER 5								
RAD.3545	Breast and Obstetrics III	7	5	10	10	20	50	5.0
RAD.3546	Head and neck III		10	10	20	20	60	6.0
RAD.3547	Neuro-radiology III	10	10	10	20	20	70	7.0
RAD.3548	Radio-oncology III		6	5	10	15	40	4.0
RAD.3549	Chest radiology V		11			25	40	4.0
RAD.3550	Gastro-intestinal and abdominal radiology V		10	5		20	40	4.0
RAD.3551	Urogenital radiology V		15			25	40	4.0
RAD.3552	Musculoskeletal V		15			25	40	4.0
RAD.3553	Emergency radiology		120				220	22.0
TOTAL HOURS AND CREDITS IN SEMESTER 5							**600**	**60.0**

YEAR 3 SEMESTER 6							
RAD.3654	Breast and Obstetrics IV	5	10	5	10	30	3.0
RAD.3655	Head and neck IV	5	10	5	10	30	3.0
RAD.3656	Neuro-radiology IV	5	10	5	10	30	3.0
RAD.3657	Radio-oncology IV	5	10	5	10	30	3.0
RAD.3658	Chest radiology V	5	10	5	10	30	3.0
RAD.3659	Gastro-intestinal and abdominal radiology V	5	10	5	10	30	3.0
RAD.3660	Urogenital radiology V	5	10	5	10	30	3.0
RAD.3661	Musculoskeletal V	5	10	5	10	30	3.0
RES. 3662	Dissertation		70		130	200	20.0
RAD.3663	Scientific Writing	5	10	15	30	60	6.0
RAD.3664	Emergency radiology		80		120	100	10.0
TOTAL HOURS AND CREDITS FOR SEMESTER 6						**600**	**60.0**

YEAR 4 SEMESTER 7							
RAD.4765	Radio-oncology V	10	50	100	140	300	30.0
RAD.4766	Interventional radiology II	10	50	100	140	300	30.0
TOTAL						**600**	**60.0**

YEAR 4 SEMESTER 8							
RAD.4867	Breast and Obstetrics V		10	10	30	50	5.0
RAD.4868	Head and neck V		10	10	30	50	5.0
RAD.4869	Neuro-radiology V		10	10	30	50	5.0
RAD.4870	Radio-oncology V		10	10	30	50	5.0
RAD.4871	Chest radiology VI		10	20	30	60	6.0
RAD.4872	Gastro-intestinal and abdominal radiology VI		10	20	30	60	6.0

RAD.4873	Urogenital radiology VI		10	20	30	60	6.0
RAD.4874	Musculoskeletal VI		10	20	30	60	6.0
RAD.4875	Emergency radiology		80		120	100	10.0
LM.4876	Leadership and Management	20	10	20	10	60	6.0
TOTAL HOURS AND CREDITS FOR SEMESTER 8						**600**	**60.0**
TOTAL HOURS AND CREDITS (Year 1,2,3,4)						**5440**	**544**

5.2.10.4 MMed in Internal Medicine

a) Programme description

The postgraduate MMed program in Internal medicine provides a multidisciplinary approach to clinical medicine. The Department seeks to educate its residents and to conduct research directed at improving the health of the public. Our goal in teaching residents is to provide them with the skills, knowledge and attitudes needed to understand the essential links between the social, physical, and economic environment and the health of individual patients and their families. The Department directs research efforts at issues affecting the community at large and its individuals.

On completion of training the graduates with master in Internal medicine will be expected to work as a specialist in that field. He/she will understand the scientific basis of diseases, the scientific basis of clinical medicine and has the skills and ethics associated with the profession.

The programme consists of 8 semesters (over 4years):

b) Programme Learning outcomes.

At the end of the programme the graduates will be able to: -

1. Provide patient care that is effective and suitable to the promotion of health, prevention of maladies, and treatment of disease according to the available resources.
2. Demonstrate sufficient knowledge in internal medicine specialties to be able to apply that knowledge to patient care and the mentor junior doctors.
3. Apply interpersonal and organizational skills to manage a clinical team.
4. Initiate, plan, execute and disseminate clinical research findings.
5. Demonstrate behaviors that show maturity in ethical practices, professional development, respect to vulnerable groups and a responsible attitude towards work and their patients.

NORMAL LEARNING MATRIX FOR MMED IN INTERNAL MEDICINE PROGRAMME

Codes	Course/Module Title	Lectures	Tutorial	Independent study	Practical	Total hours	Total Credits
Year 1: Semester 1: Foundation courses							
FCM 101	Introduction to Global Health	20	-	40	-	60	6.p0-
FCM 102	Biostatistics	56	-	24		80	8.0
FCM 103	Epidemiology	56	-	24		80	8.0
FCM 104	Research Methodology			40	10	60	6.0
FCM 105	Research management and leadership	20	-	30	20	60	6.0
Total hours and credits for semester 1						**340**	**34.0**
Year 1 Semester 1: Basic science							
MD1101	Anatomy	20	10	10	20	60	6.0
MD1102	Pathology	20	10	10	20	60	6.0
MD1103	Physiology	20	10	10	20	60	6.0

MD1104	Clinical Pharmacology	20	10	10	20	60	6.0
MD1105	Immunology& Genetics	20	10	20	10	60	6.0
TOTAL HOURS AND CREDITS IN SEMESTER 1						**300**	**30.0**
Year 1 SEMESTER 1 & 2							
IME1106	10 Infectious diseases	-	42	68	490	600	60.0
TOTAL HOURS AND CREDITS IN SEMESTER 2						**600**	**60.0**
Year 2: Semester 3 – Specialty courses							
RES.	Research proposal	-	30	70	-	100	10.0
IME2307	Cardiology	-	50	50	150	250	25.0
IME2308	Respiratory	-	50	50	150	250	25.0
TOTAL CREDITS AND HOURS IN SEMESTER 3						**600**	**60.0**
Year 2 Semester 4							
IME2409	Nephrology	-	14	28	158	200	20.0
IME2410	Neurology	-	14	28	158	200	20.0
IME2411	Gastroenterology	-	14	28	158	200	20.0
TOTAL HOURS AND CREDITS IN SEMESTER 4						**600**	**60.0**

Year 3 SEMESTER 5							
IME3513	Rheumatology	-	50	50	100	200	600
IME3514	Endocrinology	-	50	50	100	200	60.0
TOTAL HOURS AND CREDITS IN SEMESTER 5						**600**	**60.0**
Year 3 SEMESTER 6							
IME.3614	Metabolism	-	10	40	60	110	11.0
IME3615	Oncology	-	10	40	70	120	12.0
IME3616	Hematology	-	10	40	60	110	11.0
RES.3617	Dissertation	-	50	150		200	20.0
MPED 3618	Scientific Writing	10	10	30	10	60	6.0
TOTAL HOURS AND CREDITS FOR SEMESTER 6						**600**	**60.0**

Year 4 SEMESTER 7							
IME4717	Geriatric medicine	0	14	28	158	200	20.0
IME4718	Palliative care	0	14	28	158	200	20.0
IME4719	Pregnancy	0	14	28	158	200	20.0
TOTAL HOURS AND CREDITS FOR SEMSETER 7						**600**	**60.0**
Year 4 SEMESTER 8							
IME4820	CLINICAL WORK	-	42	84	414	540	54.0
LDM 4821	Leadership and Management	20	10	20	10	60	6.0
TOTAL HOURS AND CREDITS FOR SEMESTER 8						**600**	**60.0**
TOTAL HOURS AND CREDITS (Year 1,2,3,4)						**4840**	**484.0**

5.2.10.5 MMed in Pediatrics and Child Health

(a) Programme Description

The course is designed to train a pediatrician who should be competent enough to work independently in a Regional or District Hospital. The candidates are expected to become competent specialists at international level in the practice of all aspects of pediatrics, with a specific experience regarding diseases and situations prevalent in East Africa.

(b) Learning Outcomes

By the end of this programme graduates should be able to: -

1. Describe childhood diseases in a wider context;
2. Apply in depth the knowledge of basic sciences (including psychosocial sciences), pathophysiological principles and use of clinical acumen to reach diagnosis, treatment, complications, prognosis, and prevention sufficient to manage the sick child in an appropriate environment at consultant level.
3. Demonstrate appropriate and sound professionalism in all aspects of patients care and serve a role model to junior health professionals;

4. React appropriately in acute situations and be competent to support chronically ill patients and their families.
5. Manage complicated pediatric illnesses and be able to present and discuss such conditions intelligently at departmental grand rounds and clinical meetings.
6. Manage curative and preventive pediatric services with a clear view on priorities in view of scarce resources and the ability to cooperate within the healthcare system as well as inter sectorial.
7. Work with communities
8. Initiate, plan, execute and disseminate clinical research findings.

NORMAL LEARNING MATRIX FOR MMED IN PADEATRIC AND CHILD HEALTH PROGRAMME

Year 1: Semester 1: Foundation courses

Codes	Course/Module Title	Lectures	Tutorial	Independent study	Practical	Total hours	Total Credits
FCM 101	Introduction to Global Health	20	-	40	-	60	6.0
FCM 102	Biostatistics	56	-	24		80	8.0
FCM 103	Epidemiology	56	-	24		80	8.0
FCM 104	Research Methodology			40	10	60	6.0
FCM 105	Research management and leadership	20	-	30	20	60	6.0
Total hours and credits for semester 1						**340**	**34.0**
Year 1 Semester 1: Basic science							
MD1101	Anatomy	20	10	10	20	60	6.0
MD1102	Pathology	20	10	10	20	60	6.0
MD1103	Physiology	20	10	10	20	60	6.0
MD1104	Clinical Pharmacology	20	10	10	20	60	6.0
MD1105	Immunology& Genetics	20	10	20	10	60	6.0

TOTAL HOURS AND CREDITS IN SEMESTER 1						**300**	**30.0**
Year 1: Semester							
MPED 1106	Pediatric basic	20	10	20	70	120	12.0
MPED 1107	Embryology	15	20	20	5	60	6.0
MPED 1108	Growth	25	10	10	15	60	6.0
TOTAL HOURS AND CREDITS IN SEMESTER 1						**450**	**45.0**
Year 1: Semester 2							
MPED 1209	Perinatal and Neonatal	20	10	20	70	180	18.0
MPED 1210	Pediatrics Pharmacology	15	15	20	10	100	10.0
MPED 1211	Infection 1	20	50	80	150	320	32.0
TOTAL HOURS AND CREDITS IN SEMESTER 2						**600**	**60.0**
Year 2: Semester 3: Specialty courses							
MPED 2312	Research Proposal	-	20	40	-	100	10.0
MPED 2313	Intensive Care	10	15	5	30	300	6.0
MPED 2314	Psychosocial Aspects in Children	15	-	5	10	200	6.0
TOTAL HOURS AND CREDIT IN SEMESTER 3						**600**	**60.0**
Year 2: SEMESTER 4							
MPED 2415	Hematological Conditions	10	20	20	40	160	9.0
MPED 2416	Oncology	10	20	20	40	160	9.0
MPED 2417	Immunology & Allergic Conditions	10	10	20	20	120	6.0
MPED 2418	Rheumatic Disorders	10	20	20	40	160	9.0
TOTAL HOURS AND CREDIT IN SEMESTER 4						**600**	**60.0**
Year 3: SEMESTER 5							
	Data Collection						
MPED 3520	Cardio-vascular diseases and Conditions	40	40	80	140	300	30.0
MPED 3521	Respiratory diseases & conditions	30	30	40	80	180	18.0

MPED 3522	Nutrition in Children	20	20	20	60	120	12.0
TOTAL HOURS AND CREDITS FOR SEMESTER 5						**600**	**60.0**
Year 3: SEMESTER 6							
MPED 3628	Dissertation	-	60	140		200	20.0
MPED 3629	Scientific Writing WORKSHOP	10	10	20	20	60	6.0
MPED 3630	INFECTION 2	30	30	40	90	340	19.0
TOTAL HOURS AND CREDITS FOR SEMESTER 6						**660**	**66.0**
Year 4: SEMESTER 7							
MPED 4731	Renal Diseases and Conditions	10	20	20	50	100	10.0
MPED 4732	Endocrine diseases and Conditions	20	20	20	40	100	10.0
MPED 4733	Neuro and Muscular Disorders	20	10	20	50	100	10.0
MPED 4734	Dermatology workshop	10	20	20	40	100	10.0
MPED 4735	Ophthalmology workshop	10	20	20	40	100	10.0
MPED 4736	Radiology workshop	10	20	20	40	100	10.0
TOTAL HOURS AND CREDITS FOR SEMSETER 7						**600**	**60.0**
Year 4: SEMESTER 8							
MPED 4837	External Rotation	-	10	20	70	120	12.0
MPED 4838	Inborn Errors and Metabolism	20	10	30	20	120	12.0
MPED 4839	Genetics	30	20	20	10	120	12.0
MPED 4840	Advanced Clinical Work	-	20	20	90	180	18.0
MPED 4841	Leadership and Management	20	10	20	10	60	6.0
TOTAL HOURS AND CREDITS FOR SEMSETER 8						**600**	**60.0**
TOTAL HOURS AND CREDITS (Year 1,2,3,4)						**4844**	**484.4**

5.2.10.6 MMed in General Surgery

a) Programme Description

The programme aims to train candidates to become competent specialists in the practice of general surgery. On completion of the training the graduate with the degree of master's in general surgery is expected to be able to work as a specialist in the field of general surgery, with understand in the scientific basis of surgical disease, the scientific basis of clinical surgical practice and have the knowledge, skills, attitude, and ethics associated with the profession.

b) Learning Outcomes

By the end of this programme graduates will be able to: -

1. Integrate applied advanced sciences and knowledge with clinical reasoning in general surgery;
2. Train and supervise general surgery to health professionals at all levels;
3. Demonstrate appropriate and sound professionalism in all aspects of patients care and serve a role model to junior health professionals;
4. Utilize information and computer technology to facilitate evidence based surgical care, learning, research, and administration;
5. Demonstrate sound surgical knowledge on diseases and conditions which need surgical intervention in Tanzania, Africa and in the world;
6. Utilize and apply acquired knowledge to make critical decisions and provide evidence-based care to all patients needing surgical intervention;
7. Initiate, plan, execute and disseminate clinical research findings.
8. Promote good health practices and prevent common preventable surgical conditions, and;
9. Apply managerial and leadership skills in management of surgical health service provision.

NORMAL LEARNING MATRIX FOR MMED IN GENERAL SURGERY PROGRAMME

Codes	Course/Module Title	Lectures		Tutorial	Independent study	Practical	Total hours	Total Credits
Year 1: Semester 1: Foundation courses								
FCM 101	Introduction to Global Health	20	-	40	-	60	6.0	
FCM 102	Biostatistics	56	-	24		80	8.0	
FCM 103	Epidemiology	56	-	24		80	8.0	
FCM 104	Research Methodology			40	10	60	6.0	
FCM 105	Research management and leadership	20	-	30	20	60	6.0	
Total hours and credits for semester 1						**340**	**34.0**	
Year 1 Semester 1: Basic science								
MD1106	Anatomy	20	10	10	20	60	6.0	
MD1107	Pathology	20	10	10	20	60	6.0	
MD1108	Physiology	20	10	10	20	60	6.0	
MD1109	Clinical Pharmacology	20	10	10	20	60	6.0	
MD1110	Immunology& Genetics	20	10	20	10	60	6.0	
TOTAL HOURS AND CREDITS IN SEMESTER 1						**300**	**30.0**	
Year 1: SEMESTER 2: Surgical Specialty Specific Basic Sciences Modules								
SURG.1211	Anatomy abdomen	18	30	30	120	198	19.9	
SURG.1212	Anatomy pelvis	10	15	15	60	100	11.0	
SURG.1213	Anatomy perineum	10	15	15	60	100	11.0	
SURG.1214	Principles operative surgery	10	15	5	20	50	5.0	

TOTAL HOURS AND CREDITS IN SEMESTER 1						**448**	**44.8**
Year 2: SEMESTER 2							
SURG.2215	Anatomy neck	15	15	30	60	120	12.0
SURG.2216	Anatomy breast	5	15	10	20	50	50.0
SURG.2217	Anatomy upper limb	15	15	10	35	75	7.5
SURG.2218	Anatomy lower limb	10	15	15	60	100	10.0
SURG.2214	Anatomy spine	5	10	15	20	50	5.0
SURG.2214	Anatomy of the mediastinum	20	25	25	30	100	10.0
SURG.2214	Management of shock	5	10	10	5	30	30.0
SURG.2214	Microbiology & surgical infection	20	20	25	10	75	7.5
TOTAL HOURS AND CREDITS IN SEMESTER 2						**600**	**60.0**
Year 2 SEMESTER 3: Surgical Rotation							
RES.2315	Research Proposal	10	20	70	-	100	10
SURG2316	Fluids, electrolyte & acid balance	5	15	15	5	80	8.0
SURG2317	Surgical wounds	10	20	10	30	170	17.0
SURG2318	Diabetic foot ulcers	10	20	10	40	150	15.0
SURG2319	Special abscesses	10	15	10	25	100	10.0
TOTAL HOURS AND CREDITS IN SEMESTER 3						**600**	**60.0**
Year 2: SEMESTER 4							
SURG2420	Blood transfusion	510	15	20	10	60	6.0
SURG2421	Transplantation	15	15	20	10	60	6.0
SURG2422	Surgical oncology	20	30	30	60	140	14.0
SURG2423	Acute abdomen	15	15	20	60	110	11.0
SURG2424	Day care surgery	10	10	20	20	60	6.0
SURG2425	Trauma head, chest & abdomen	30	30	40	70	170	17.0

TOTAL HOURS AND CREDITS IN SEMESTER 4						**600**	**60.0**
RES.	Research work						
SURG3526	Hernias	10	10	30	10	60	6.0
SURG3527	Inflammatory bowel diseases	15	10	20	15	60	56.0
SURG3528	Pancreatic diseases	20	20	20	60	120	12.0
SURG3529	Splenic diseases	20	15	15	50	100	10.0
SURG3530	Reconstructive surgery	15	10	20	15	60	6.0
SURG3531	Pediatrics surgery	30	20	50	100	200	20.0
TOTAL HOURS AND CREDITS IN SEMESTER 5						**600**	**60.0**
Year 3 SEMESTER 6							
SURG3632	Breast diseases	10	10	50	30	100	10.0
SURG3633	Thyroid diseases	10	10	50	30	100	10.0
SURG3634	Parathyroid diseases	10	10	30	20	70	7.0
SURG3635	Adrenal diseases	10	10	30	20	70	7.0
SURG3636	Dissertation		60	120	20	200	20.0
SWR3637	Scientific Writing	15	10	-	5	60	6.0
TOTAL HOURS AND CREDITS IN SEMESTER 6						**600**	**60.0**
Year 4 SEMESTER 7							
SURG4737	Hepatobiliary diseases	15	40	25	60	140	14.0
SURG4738	Gastric diseases	10	30	30	60	130	13.0
SURG4739	Small bowel diseases	10	10	10	30	60	6.0
SURG4740	Large bowel diseases	20	40	20	60	140	14.0
SURG4741	Entrepreneurship in Health Care	15	-	5	10	30	5.0
SURG4742	External Rotation (Urology)	5	10	5	20	40	4.0

SURG4743	External Rotation (Endoscopy)	3	5	2	10	20	2.0
SURG4744	External Rotation (Obst & Gyn	5	10	5	20	40	4.0
TOTAL HOURS AND CREDITS IN SEMESTER 6						**600**	**60.0**
Year 4: SEMESTER 8							
SURG4845	External Rotation (Orthopedics)	5	10	5	20	40	4.0
SURG4846	External Rotation (Radiology)	3	5	2	10	20	2.0
SURG4847	External Rotation (ENT)	3	5	2	10	20	2.0
SURG4848	Vascular surgery	20	40	60	80	200	20.0
SURG4849	Cardiothoracic surgery	30	40	50	140	260	30.0
LM4850	Leadership & Management	10		30	20	60	6.0
TOTAL HOURS AND CREDITS IN SEMESTER 8						**600**	**60.0**
						4840	**484.0**

5.2.10.7 MMed Obstetrics and Gynecology

(a) PROGRAMME DESCRIPTION

The programme aims to train candidates to become competent specialists in the practice of Obstetrics and Gynecology.

The four-year training programme in obstetrics and gynecology will provide the trainees with the educational and practical experience that will permit them to deliver highly qualified specialized care to patients in area of Obstetrics and Gynecology. In addition to an extensive knowledge and skills in Obstetrics and Gynecology the graduate will be a highly trained expert for all gynecological and community health aspects.

(b) PROGRAMME LEARNING OUTCOMES

At the end of training the graduates will be able to:

1. Work as a specialist in the field,
2. Demonstrate understanding of the scientific basis of Obstetrics and Gynecological disease,
3. Perform clinical duties with passion and compassion while observing the requirements of his/her level of specialization,
4. Apply knowledge, skills, and values of the profession when taking care of patients, families, and the public.
5. Demonstrate attitude and ethics commensurate with the profession values and ethics.
6. Train his/her juniors, colleagues, residents, and medical students.
7. Apply managerial and leadership skills in the management of health service provision.
8. Initiate, plan, execute and disseminate clinical research findings.

NORMAL LEARNING MATRIX IN MMED IN OBSTETRICS AND GYNECOLOGY PROGRAMME

Codes	Course/Module Title	Lectures	Tutorial	Independent study	Practical	Total hours	Total Credits
Year 1: Semester 1: Foundation courses							
FCM 101	Introduction to Global Health	20	-	40	-	60	6.0
FCM 102	Biostatistics	56	-	24		80	8.0
FCM 103	Epidemiology	56	-	24		80	8.0
FCM 1046.0	Research Methodology			40	10	60	6.0
FCM 105	Research management and leadership	20	-	30	20	60	6.0

Total hours and credits for semester 1						**340**	**34.0**
Year 1 Semester 1: Basic science							
MD1106	Anatomy	20	10	10	20	60	6.0
MD1107	Pathology	20	10	10	20	60	6.0
MD1108	Physiology	20	10	10	20	60	6.0
MD1109	Clinical Pharmacology	20	10	10	20	60	6.0
MD1110	Immunology& Genetics	20	10	20	10	60	6.0
TOTAL HOURS AND CREDITS IN SEMESTER 1						**300**	**30.0**
Year 1: Semester 2							
OBGY 1106	Basic hematology	15	15	40	30	100	10.0
OBGY 1107	Specific problems of infectious diseases	20	20	60	50	150	15.0
OBGY 1108	Specific problems of pharmacology	15	15	40	30	100	10.0
OBGY 1109	Anatomy and physiology of female reproductive system	30	40	70	110	250	25.0
TOTAL HOURS AND CREDITS IN SEMESTER 1						**600**	**60.0**
Year 1: Semester 2							
OBGY 1210	Anatomy of bony pelvis	15	15	40	60	130	13.0
OBGY 1211	Pathological basis of disease in gynecology	10	30	60	50	150	15.0
OBGY 1212	Gynecological oncology	40	50	60	60	210	21.0
OBGY 1213	Basic principles of interpreting histological and cytological results	15	15	50	30	110	11.0
TOTAL HOURS AND CREDITS IN SEMESTER 2						**600**	**60.0**
Year 2: Semester 3: Specialty courses							
	Research proposal	-	20	80	-	100	10.0
OBGY 2314	Ward rounds and outpatients' clinics	-	-	-	60	60	6.0

OBGY 2315	Bed side teaching	-	60	80	-	140	14.0
OBGY 2316	Operating sessions	-	30	60	120	200	20.0
OBGY 2317	Participation in both emergency and elective sessions	-	-	-	60	60	6.0
OBGY 2318	Participation in Journal Clubs	-	10	10	20	40	4.0
TOTAL HOURS IN SEMESTER 3 (OBGY SPECIALTY						**600**	**60.0**
Year 2: SEMESTER 4							
OBGY 2419	Research Proposal	10	30	60		100	10.0
OBGY 2420	High risk obstetrics	10	10	20	40	80	8.0
OBGY 2421	Medical conditions in pregnancy	10	10	10	40	70	7.0
OBGY 2422	Genetics in pregnancy and role of amniocentesis	5	5	10	20	40	4.0
OBGY 2423	Performing mega vaginal deliveries e.g., Breech, vacuum, and forceps	5	10	10	25	50	5.0
OBGY 2424	Anesthesia in Obstetrics	5	-	10	15	30	3.0
OBGY 2425	Management of critically ill patient	5	5	10	10	30	3.0
OBGY 2426	Immediate care of a newborn	5	5	10	15	30	3.0
OBGY 2427	Diagnostic management of pelvic floor dysfunction	5	5	10	10	30	3.0
OBGY 2428	Diagnosis and surgical/medical management of urinary incontinence	5	5	10	10	30	3.0
OBGY 2429	Principals of management of gynecological malignancies	5	10	15	40	70	7.0
OBGY 2430	Clinical skills in family planning	5	-	10	25	40	4.0
TOTAL HOURS AND CREDIT IN SEMESTER 4						**600**	**60.0**
Year 3: Semester 5							
OBGY 3531	Data Collection	-	-	-	-	-	
OBGY 3532	Full range of all practical obstetrics and gynecology	-	40	50	60	150	15.0

OBGY 3533	Ward rounds	-	-	-	150	150	115.0
OBGY 3534	Tutorials	-	60	40	-	100	10.0
OBGY 3535	Operating sessions	10	5	20	115	150	15.0
OBGY 3536	Bedside teaching	-		10	40	50	5.0
TOTAL HOURS AND CREDITS FOR SEMESTER 5						**600**	**60.0**
Year 3: SEMESTER 6							
MOBY 3637	Dissertation writing	30	30	120	20	200	20.0
MOBGY 3638	Management of high-risk pregnancy	10	5	10	25	40	5.0
MOBGY 3639	Performing operative deliveries	-	10	20	20	50	5.0
MOBGY 3640	Performing vaginal deliveries after caesarian section	5	-	10	15	30	3.0
MOBGY 3641	Commonly employed obstetrical diagnostic procedures	10	10	10	20	50	6.0
MOBGY 3642	Reproductive endocrinology and infertility	10	10	15	30	60	6.0
MOBGY 3643	Psychosomatic and psychological and counseling	5	5	20	20	50	5.0
MOBGY 3644	Principals of laparoscopic gynecological procedures	5	5	10	40	60	6.0
MOBGY 3645	Principles of minimally invasive gynecological procedures	5	10	10	30	60	6.0
TOTAL HOURS AND CREDITS FOR SEMESTER 6						**600**	**60.0**
Year 4: Semester 7							
MOBGY 4746	Full range of all practical obstetrics and gynecology	-	40	50	60	150	15.0
MOBGY 4747	Ward rounds	-	50	-	100	150	15.0
MOBGY 4748	Tutorials	-	60	40	-	100	10.0

MOBGY 4749	Operating sessions	10	5	20	115	140	14.0
MOBGY 4750	Bedside teaching	-	30	-	30	60	3.0
TOTAL HOURS AND CREDITS FOR SEMESTER 7						**600**	**60.0**
Year 4: SEMESTER 8							
OBGY 4751	External Rotation	-	-	-	100	100	10.0
OBGY 4752	Continuous fetal monitoring for high-risk patients	5	5	10	20	40	4.0
OBGY 4753	Complicated and elective obstetrical surgeries	5	5	10	30	50	5.0
OBGY 4754	Counseling of women regarding nutrition, exercise, health, high-risk behaviors and preparation for pregnancy and childbirth.	10	-	10	20	40	4.0
OBGY 4755	Counseling for pregnant women with AIDS and malignancies.	10	-	10	20	40	4.0
OBGY 4756	Dealing with a patient facing emotional and psychological impact of pregnancy	10	-	10	20	40	4.0
OBGY 4757	Perform all gynecological surgeries like hysterectomy, vaginal hysterectomy, and simple VVF repair	5	5	10	30	50	5.0
OBGY 4758	Diagnostic laparoscopies	5	5	10	30	50	5.0
OBGY 4759	Hysteroscopy procedures for patients with AUB	10	-	10	20	40	4.0
OBGY 4760	Experience in management of critically ill patients	-	-	-	-	40	4.0
OBGY 4761	Palliative care	5	-	5	20	30	3.0
OBGY 4762	General surgery emergencies like colostomy, bowel repair and laparotomy for acute abdomen.	10	5	10	15	40	4.0

OBGY 4763	Urological surgical emergencies like suprapubic catheterization, urinary bladder injury repair, nephrostomy, and cystoscopy.	10	5	10	15	40	4.0
TOTAL HOURS AND CREDITS FOR SEMSETER 8						**600**	**60.0**
TOTAL HOURS AND CREDITS (Year 1,2,3,4)						**5440**	**544.0**

5.2.10.8 MMed in Urology

(a) Programme Description

Urology training programme shall be organized to provide a stable well-coordinated and progressive acquisition of both basic sciences and clinical experience. Considering that urology is a surgical subspecialty and that there are still few surgeons in the country/region a urologist in Tanzania/East and Central Africa needs to know as much general surgery as possible and surgical emergencies and abdominal surgery. Therefore, the MMed Urology trainee will have a specified rotation in general surgery department.

(b) Programme Learning Outcomes

Upon completion of the programme the graduates will be able to: -

1. To work independently as a specialist in the field (general abdominal surgery and urology) with an understanding of the scientific basis of urologic surgical disease, the scientific basis of clinical surgical and urologic practice and
2. Demonstrate skills, attitude, and ethics, related to the profession.
3. Apply managerial and leadership skills in the management of health service provision.
4. Initiate, plan, execute and disseminate clinical research findings.

NORMAL LEARNING MATRIX FOR MMED UROLOGY PROGRAMME

Codes	Course/Module Title	Lectures	Tutorial	Independent study	Practical	Total hours	Total Credits

Year 1: Semester 1: Foundation courses							
FCM 101	Introduction to Global Health	20	-	40	-	60	6.0
FCM 102	Biostatistics	56	-	24		80	8.0
FCM 103	Epidemiology	56	-	24		80	8.0
FCM 104	Research Methodology			40	10	60	6.0
FCM 105	Research management and leadership	20	-	30	20	60	6.0
Total hours and credits for semester 1						**340**	**34.0**
Year 1 Semester 1: Basic sciences							
MD1106	Anatomy	20	10	10	20	60	6.0
MD1107	Pathology	20	10	10	20	60	6.0
MD1108	Physiology	20	10	10	20	60	6.0
MD1109	Clinical Pharmacology	20	10	10	20	60	6.0
MD1110	Immunology& Genetics	20	10	20	10	60	6.0
TOTAL HOURS AND CREDITS IN SEMESTER 1						**300**	**30.0**
Year 1 Semester 2: Basic sciences							
URO1211	Anesthetic and life support techniques	20	20	20	40	100	10.0
URO1212	Applied clinical biochemistry	20	20	20	40	100	10.0
URO1213	Clinical anatomy	20	20	20	40	100	10.0
URO1214	Clinical physiology	20	20	20	40	100	10.0
URO1215	Clinical pharmacology	20	20	20	40	100	10.0
URO1216	Introduction to health professional's education, professionalism, and ethics	20	20	20	40	100	10.0
TOTAL HOURS AND CREDITS IN SEMESTER 1						**600**	**60.0**
Year 2: Semester 3							

URO2317	Applied physics and clinical measurements	10	5	10	35	60	6.0
URO2318	Epidemiology, biostatistics, and research methods	15	15	20	10	60	6.0
URO2319	General and regional anesthesia	10	15	5	30	60	6.0
URO2320	Acute pain medicine	10	5	5	10	30	3.0
URO2321	Basic of critical care medicine	10	-	-	20	30	3.0
URO2322	Health systems management	15	10	5	-	30	3.0
URO2323	Anesthesia elective practicum	5	5	10	10	30	3.0
URO2324	Cardiology, nephrology, and acute medicine	20	10	10	50	90	9.0
URO2325	Pediatrics anesthesia and critical care	20	10	10	50	90	9.0
URO2326	Obstetrics anesthesia	10	10	20	20	60	6.0
URO2327	Research proposal	10	10	20	20	60	6.0
TOTAL HOURS IN SEMESTER 3						**600**	**60.0**
Year 2: Semester 4							
URO2428	Advanced critical care medicine	30	30	40	60	160	16.0
URO2429	Integrated critical care medicine	30	30	40	60	160	16.0
URO2430	Neuro and cardiothoracic anesthesia	30	30	40	60	160	16.0
URO2431	Anesthesia elective practicum	20	20	20	60	120	12.0
TOTAL HOURS AND CREDIT IN SEMESTER 4						**600**	**60.0**
Year 3: Semester 5							
URO3532	Anesthesia for sub-specialties	25	25	50	100	200	20.0
URO3533	Chronic pain medicine	25	25	50	100	200	20.0
URO3534	Diagnostic microbiology and immunology	25	25	50	100	200	20.0

TOTAL HOURS AND CREDITS FOR SEMESTER 5						**600**	**30.0**
Year 3: Semester 6							
URO3635	Integrated anesthesiology	25	25	50	100	200	20.0
URO3635	Disaster and emergency medicine	25	25	50	100	200	20.0
URO3635	Dissertation	25	25	50	100	200	20.0
TOTAL HOURS AND CREDITS FOR SEMESTER 6						**600**	**60.0**
Year 4: Semester 7							
URO4736	Higher module critical care medicine	15	15	30	60	120	12.0
URO4737	Higher module regional	15	15	30	60	120	12.0
URO4738	Higher module acute pain	15	15	30	60	120	12.0
URO4739	Higher module obstetrics	15	15	30	60	120	12.0
URO4740	Higher module pediatrics	20	-	--	40	60	6.0
URO4741	Higher module chronic pain	20	-	-	20	60	6.0
TOTAL HOURS AND CREDITS FOR SEMSETER 7						**600**	**60.0**
Year 4: Semester 8							
URO4842	External Rotation	20	20	20	60	120	12.0
URO4843	Urologic Surgery	20	20	20	60	120	12.0
URO4844	Quality improvement project	20	20	20	60	120	12.0
URO4845	Advanced Clinical Work	20	20	20	60	120	12.0
LM.4846	Leadership and Management	20	20	20	60	120	12.0
TOTAL HOURS AND CREDITS FOR SEMESTER 8						**600**	**60.0**
TOTAL HOURS AND CREDITS (Year 1,2,3,4)						**4800**	**480**

5.2.10.9 MMed in Orthopedics and Trauma

(a) Programme Description

This training program in orthopedics surgery and trauma aims at producing a compassionate, knowledgeable, and technically

competent individual. This individual is especially broad-spectrum trained as to widely meet the varied orthopedic needs of the communities characterized by scarcity of highly specialized orthopedic manpower to undertake much needed orthopedic treatment and rehabilitation services.

(b) Programme Learning Outcomes

At the end of the programme, the graduates will be able to: -

1. Integrate applied advanced sciences and knowledge with clinical reasoning in general surgery;
2. Demonstrate and apply principles of scientific research methods in surgical clinical research;
3. Train and supervise general surgery to health professionals at all levels.
4. Demonstrate appropriate and sound professionalism in all aspects of patients care and serve a role model to junior health professionals;
5. Utilize information and computer technology to facilitate evidence based surgical care, learning, research, and administration;
6. Demonstrate sound surgical knowledge on diseases and conditions which need surgical intervention in Tanzania, Africa and in the world;
7. Utilize and apply acquired knowledge to make critical decisions and provide evidence-based care to all patients needing surgical intervention;
8. Initiate, plan, execute and disseminate clinical research findings.
9. Promote good health practices and prevent common preventable surgical conditions;
10. Apply managerial and leadership skills in management of surgical health service provision.
11. Initiate, plan, execute and disseminate clinical research findings.

NORMAL LEARNING MATRIX FOR MMED ORTHOPAEDICS SURGERY PROGRAMME

Codes	Course/Module Title	Lectures	Tutorial	Self-study	Practical	Total hours	Total Credits
Year 1: Semester 1: Foundation courses							
FCM 101	Introduction to Global Health	20	-	40	-	60	6.0
FCM 102	Biostatistics	56	-	24		80	8.0
FCM 103	Epidemiology	56	-	24		80	8.0
FCM 104	Research Methodology			40	10	60	6.0
FCM 105	Research management and leadership	20	-	30	20	60	6.0
Total hours and credits for semester 1						**340**	**34.0**
Year 1 Semester 1: Basic science							
MD1106	Anatomy	20	10	10	20	60	6.0
MD1107	Pathology	20	10	10	20	60	6.0
MD1108	Physiology	20	10	10	20	60	6.0
MD1109	Clinical Pharmacology	20	10	10	20	60	6.0
MD1110	Immunology& Genetics	20	10	20	10	60	6.0
TOTAL HOURS AND CREDITS IN SEMESTER 1						**300**	**30.0**
Year 1: SEMESTER 1: Surgical Specialty Specific Basic Sciences Modules							
MORT1106	Principals of orthopedic surgery	15	15	20	10	60	6.0
MORT1107	Musculoskeletal anatomy	25	20	20	5	70	7.0
MORT1108	Musculoskeletal embryology	15	10	10	15	50	5.0
MORT1109	Congenital musculoskeletal diseases	15	20	20	5	60	6.0
TOTAL HOURS AND CREDITS IN SEMESTER 1						**450**	**45.0**
Year 1: Semester 2							

MORT1110	Bone physiology, Biochemistry, and pathology	30	30	40	100	200	20.0
MORT1111	Drugs in musculoskeletal system	15	15	20	50	100	10.0
MORT1112	Metabolic bone diseases	30	40	30	200	300	30.0
TOTAL HOURS AND CREDITS IN SEMESTER 2						**600**	**60.0**
Year 2: Semester 3: Specialty courses							
MORT 2313	Research Proposal	5	10	35	-	50	5.0
MORT 2314	Intensive Care	40	30	30	25	125	12.5
MORT 2315	Emergency orthopedic medicine	15	15	5	25	250	25.0
MORT 2316	Radiology in orthopedics and trauma	23	22	20	60	125	12.5
TOTAL HOURS AND CREDIT IN SEMESTER 3						**600**	**60.0**
Year 2: SEMESTER 4							
MORT 2417	Research Proposal	5	10	35	-	50	5.0
MORT 2418	Musculoskeletal injury in general	10	20	20	50	100	10.0
MORT 2419	Musculoskeletal injury in upper limb	10	20	20	50	100	10.0
MORT 2420	Musculoskeletal injury in lower limb	10	20	20	50	100	10.0
MORT 2421	Musculoskeletal injury	10	20	20	50	100	10.0
MORT 2422	Spine and spinal cord injury	10	20	20	40	90	9.0
MORT 2423	Pediatric fracture and dislocation	10	10	20	20	60	6.0
TOTAL HOURS AND CREDIT IN SEMESTER 4						**600**	**60.0**
Year 3: SEMESTER 5							
MORT 3524	Data Collection	20	40	40	90	190	19.0
MORT 3525	Musculoskeletal infection	20	30	40	80	170	17.0
MORT 3526	Degenerative joint diseases	10	20	20	50	100	10.0
MORT 3527	Immune related arthritides	10	10	20	30	70	7.0
MORT 3528	Bone tumors	10	10	20	30	70	7.0

TOTAL HOURS AND CREDITS FOR SEMESTER 5						**600**	**60.0**
Year 3: SEMESTER 6							
MORT 3629	Data analysis workshop	20	20	20	30	90	9.0
MORT 3630	Dissertation writing	-	80	100	20	200	20.0
MORT 3631	Scientific Writing WORKSHOP	20	20	20	30	90	9.0
MORT 3632	Circulatory musculoskeletal disorder	20	20	20	40	100	10.0
MORT 3633	Sports medicine	20	20	30	50	120	12.0
TOTAL HOURS AND CREDITS FOR SEMESTER 6						**600**	**60.0**
Year 4: SEMESTER 7							
MORT 4734	Entrapment syndrome and nerve compression	20	10	40	50	120	12.0
MORT 4735	External rotation in pediatrics	20	10	40	50	120	12.0
MORT 4736	External rotation in neurosurgery	20	10	40	50	120	12.0
MORT 4737	External rotation in general surgery	10	10	20	40	80	8.0
MORT 4738	External rotation in physiotherapy and orthopedic workshop	10	10	10	50	80	8.0
MORT 4739	External rotation in plastic and reconstruction surgery	10	10	20	40	80	8.0
TOTAL HOURS AND CREDITS FOR SEMSETER 7						**600**	**60.0**
Year 4: SEMESTER 8							
MORT4840	External Rotation emergency department	20	30	50	70	170	10.0
MORT 4841	Orthopedic neurosurgical disorder	20	30	30	50	130	8.0
MORT4842	Advanced principal of orthopedic surgery	20	40	40	60	160	13.0
MORT4844	Leadership and Management	30	30	40	40	140	6.0
TOTAL HOURS AND CREDITS FOR SEMSETER 8						**600**	**60.0**
TOTAL HOURS AND CREDITS (Year 1,2,3,4)						**4690**	**469.0**

5.2.10.10 MMed in Otorynolaryngology (ENT)

(a) Programme Description

Master of Medicine Ophthalmology is a four-year postgraduate university programme that aims at producing fully competent specialists in ophthalmology who understand the scientific basis of diseases, have command of the clinical cognitive skills and surgical know-how of the profession.

(b) Programme Learning Outcomes

By the end of the programme graduates will be able to: -

1. Discuss the scientific basis of diseases as well as the scientific basis clinical and surgical practice.
2. Practice general medical and surgical in Otorynolaryngology.
3. Demonstrate a command of the principles and practice of Otorynolaryngology.
4. Demonstrate skills, attitude and ethics associated with the profession of Otorynolaryngology;
5. Apply relevance intervention required for prevention of deafness and Otorynolaryngology public health;
6. Apply the principles and practices rehabilitative Otorynolaryngology medicine.
7. Apply managerial and leadership skills in the management of health service provision.
8. Initiate, plan, execute and disseminate clinical research findings.

NORMAL LEARNING MATRIX FOR MMED OTORYNOLARINGOLOGY PROGRAMME

Codes	Course/Module Title	Lectures	Tutorial	Independent study	Practical	Total hours	Total Credits

Year 1: Semester 1: Foundation courses							
FCM 101	Introduction to Global Health	20	-	40	-	60	6.0
FCM 102	Biostatistics	56	-	24		80	8.0
FCM 103	Epidemiology	56	-	24		80	8.0
FCM 104	Research Methodology			40	10	60	6.0
FCM 105	Research management and leadership	20	-	30	20	60	6.0
Total hours and credits for semester 1						**340**	**34.0**
Year 1 Semester 1: Basic sciences							
MD1106	Anatomy	20	10	10	20	60	6.0
MD1107	Pathology	20	10	10	20	60	6.0
MD1108	Physiology	20	10	10	20	60	6.0
MD1109	Clinical Pharmacology	20	10	10	20	60	6.0
MD1110	Immunology& Genetics	20	10	20	10	60	6.0
TOTAL HOURS AND CREDITS IN SEMESTER 1						**300**	**30.0**

Year 1: Semester 2

Year 1 SEMESTER 2							
MENT1106	Applied anatomy,	20	10	10	20	60	6.0
MENT 1107	Embryology of ENT	20	10	10	20	60	6.0
MENT 1108	Physiology of ENT	20	10	10	20	60	6.0
MENT 1109	audiology	20	10	10	20	60	6.0
MENT 1110	Microanatomy and physiology, pathology, and biochemistry of the salivary glands.	20	10	10	20	60	6.0
TOTAL HOURS AND CREDITS IN SEMESTER 2						**600**	**60.0**
Year 2: Semester 3 – Specialty courses							
RES.	Research proposal		30	70		100	10.0

IME2307	Cardiology		50	50	150	250	25.0
IME2308	Respiratory		50	50	150	250	25.0
TOTAL CREDITS AND HOURS IN SEMESTER 3						**600**	**60.0**
Year 2 Semester 4							
IME2409	Nephrology		14	28	158	200	20.0
IME2410	Neurology		14	28	158	200	20.0
IME2411	Gastroenterology		14	28	158	200	20.0
TOTAL HOURS AND CREDITS IN SEMESTER 4						**600**	**60.0**

Year 3 SEMESTER 5							
IME3513	Rheumatology		50	50	100	200	600
IME3514	Endocrinology		50	50	100	200	60.0
TOTAL HOURS AND CREDITS IN SEMESTER 5						**600**	**60.0**
Year 3 SEMESTER 6							
IME.3614	Metabolism	-	10	40	60	110	11.0
IME3615	Oncology	-	10	40	70	120	12.0
IME3616	Hematology	-	10	40	60	110	11.0
RES.3617	Dissertation	-	50	150		200	20.0
MPED 3618	Scientific Writing	10	10	30	10	60	6.0
TOTAL HOURS AND CREDITS FOR SEMESTER 6						**600**	**60.0**
Year 4 SEMESTER 7							
IME4717	Geriatric medicine	0	14	28	158	200	20.0
IME4718	Palliative care	0	14	28	158	200	20.0
IME4719	Pregnancy	0	14	28	158	200	20.0
TOTAL HOURS AND CREDITS FOR SEMSETER 7						600	60.0
Year 4 SEMESTER 8							
IME4820	CLINICAL WORK		42	84	414	540	54.0

LDM 4821	Leadership and Management	20	10	20	10	60	6.0
TOTAL HOURS AND CREDITS FOR SEMESTER 8						**600**	**60.0**
TOTAL HOURS AND CREDITS (Year 1,2,3,4)						**4840**	**484.0**

5.2.10.11 MMed in Anesthesia

(a) Programme Description

Master of Medicine anesthesia is a four-year postgraduate university programme that aims at producing fully competent specialists in anesthesia who understand the scientific basis of diseases, have command of the clinical cognitive skills and anesthesia know-how of the profession.

(b) Programme Learning outcomes

Upon completion the graduates will be able to: -

1. Practice as a specialist in the field of anesthesia
2. Teach anesthesia to juniors.
3. Practice intensive/critical medicine and emergency medical situations
4. Initiate, plan and conduct research related to anesthesia.

NORMAL LEARNING MATRIX FOR MMED ANAESTHESIA PROGRAMME

Codes	Course/Module Title	Lectures	Tutorial	Independent study	Practical	Total hours	Total Credits
Year 1: Semester 1: Foundation courses							
FCM 101	Introduction to Global Health	20	-	40	-	60	6.0
FCM 102	Biostatistics	56	-	24		80	8.0

FCM 103	Epidemiology	56	-	24		80	8.0
FCM 104	Research Methodology			40	10	60	6.0
FCM 105	Research management and leadership	20	-	30	20	60	6.0
Total hours and credits for semester 1						340	34.0
Year 1 Semester 1: Basic science							
MD1106	Anatomy	20	10	10	20	60	6.0
MD1107	Pathology	20	10	10	20	60	6.0
MD1108	Physiology	20	10	10	20	60	6.0
MD1109	Clinical Pharmacology	20	10	10	20	60	6.0
MD1110	Immunology& Genetics	20	10	20	10	60	6.0
TOTAL HOURS AND CREDITS IN SEMESTER 1						**300**	**30.0**

Semester 2: Year 1: Introduction to Anesthesiology and Intensive Care

CODES	Course/Module Title	Lecture Hours	Tutorials	Assignment Hours	Independent Study Hours	Practical Hours	Total Hours	Total Credits
MAEN 1212	Anesthetic and life support techniques	5	3	5	12	25	50	5
MAEN 1213	Introduction to health professional's education, professionalism, and ethics	7	3	2	10	8	30	3
MAEN 1214	Applied Clinical Biochemistry	3	1	3	10	13	30	3
MAEN 1215	Applied Clinical Anatomy	4	3	3	10	10	30	3
MAEN 1216	Applied Clinical Physiology	18	3	9	22	8	60	6
MAEN 1217	Applied Clinical pharmacology	14	3	9	19	15	60	6
MAEN 1218	Applied Physics and Clinical measurements	7	3	7	16	17	50	5

MAEN 1219	Principles and Operation of Anesthetic Equipment	2	1	2	9	16	30	3
MAEN 1220	Acute Pain Medicine	4	1	8	16	11	40	4
MAEN 1221	Basics of Critical Care Medicine	4	3	5	18	20	50	5
MAEN 1222	Principles of Safe Anesthesia	6	3	6	12	23	50	5
MAEN 1223	Anesthesia Practicum	0	0	0	0	80	80	8
TOTAL HOURS AND CREDITS							**560**	**56**

Semester 3: Year 2: Perioperative Medicine, Regional and Obstetric Anesthesiology

CODE	Course/Module Title	Lectures Hours	Tutorial	Assignment	Independent Study	Practical H	Total hours	Total Credits
MAEN 2324	Anesthesia and Coexisting diseases	25	10	30	70	115	250	25
MAEN 2325	Obstetric anesthesia	20	10	24	50	96	200	20
MAEN 2326	Locoregional anesthesia	15	7	18	30	80	150	15
TOTAL HOURS AND CREDITS							**600**	**60**

Semester 4: Year 2: Critical Care and Pain Medicine, Pediatric and Geriatric Anesthesiology

CODES	Course/Module Title	Lectures	Tutorial	Assignment	Independent Study	Practical Hours	Total Hours	Total Credits
MAEN 2427	Research Proposal	-	-	-	10	90	100	10
MAEN 2328	Anaesthesia for special age groups	20	5	10	65	100	200	20
MAEN 2429	Advanced Critical Care Medicine	19	8	8	60	95	190	19
MAEN 2430	Chronic Pain Medicine	5	5	5	30	65	110	11
TOTAL HOURS AND CREDITS							**600**	**60**

Semester 5: Year 3: Critical Care for Diagnostic and Curative Procedures. Anaesthesia for Surgical Specialties. Dissertation.

CODE	Course/Module Title	Lectures	Tutorial	Assignment	Independent Study	Practical	Total Hours	Total Credits
MAEN 3531	Anesthesia for surgical specialties	10	5	5	40	110	170	17
MAEN 2532	Integrated critical care medicine	10	5	5	40	100	160	16
MAEN 3533	Dissertation				90	30	120	12
MAEN 3534	Anesthesia practicum	-	-	-	-	90	90	9
TOTAL HOURS AND CREDITS							**540**	**54**

Semester 6: Year 3: Anesthesia for Diagnostic and Curative Procedures. Disaster and Emergency Medicine. External Rotation.

Codes	Course/Module Title	Lecture Hours	Tutorial/	Assignment Hours	Independent Study Hours	Practical Hours	Total Hours	Total Credits
MAEN 3635	Integrated Anesthesiology	5	5	10	40	100	160	16
MAEN 3636	Disaster and Emergency Medicine	10	10	10	50	100	180	18
MAEN 3637	External Rotation	20	10	10	50	170	260	26
TOTAL HOURS AND CREDITS							**600**	**60**

Semester 7: Year 4: Higher Modules

Codes	Course/Module Title	Lecture Hours	Tutorial	Assignment Hours	Independent Study	Practical hours	Total Hours	Total Credits
MAEN 4738	Higher Module in Critical Care Medicine	5	5	10	50	230	300	30
MAEN 4739	Higher Module in Regional Anesthesia	5	5	5	15	70	100	10
MAEN 4740	Higher Module in Obstetrics Anesthesia	5	5	5	15	70	100	10
MAEN 4741	Higher Module in Pediatric Anesthesia	5	5	5	15	70	100	10
TOTAL HOURS AND CREDITS							**600**	**60**

Semester 8: Year 4: Quality Improvement Project. Leadership and Management. Higher Modules.

Codes	Course/Module Title	Lecture Hours	Tutorial	Assignment Hours	Independent Study	Practical	Total hours	Total Credits
MAEN 4842	Advanced Clinical Specialties	12	12	12	60	224	320	32
MAEN 4843	Quality Improvement Project	0	5	5	10	80	100	10
MAEN 4844	Higher Module in Acute Pain Medicine	0	5	5	10	30	50	5
MAEN 4845	Higher Module Chronic Pain Medicine	0	5	5	10	30	50	5
MAEN 4846	Leadership and Management	3	3	4	5	65	80	8
TOTAL HOURS AND CREDITS							**600**	**60**
TOTAL HOURS AND CREDITS FOR SEMESTER 1-8							**4600**	**460**

5.2.10.12 Doctor of Philosophy (PhD) Programmes

(a) Programme Description

This is a 3 – 4-year programme requiring 549 credits and is based on publications and taught courses. Publications shall be based on results from objectives as proposed in the final PhD proposal. The proposed research project must be relevant and of acceptable scientific academic standards. Both the preliminary and final PhD proposal should specifically indicate how the minimum requirement of 3 papers in 2 or more different peer-reviewed journals will be achieved.

(b) Programme Learning outcomes

Upon completion of the programme the graduates will be able to:

1. Identify knowledge gaps, synthesize relevant information, develop focused research questions, and lead research independently.
2. Demonstrate and/or work with a critical understanding of the principal theories and concepts in the field of his/her study.
3. Generate knowledge through personal research or equivalent contribution to the development of the subject/discipline, judged by independent experts applying international standards.
4. Apply knowledge and do advanced research resulting into significant and original contributions to a specialized field.
5. Demonstrate a command of methodological issues and engage in critical dialogue with peers, able to work autonomously and in complex and unpredictable situations.
6. Demonstrate creativity and teaching skills, including student supervision, in working with students and other professionals in academic, research or practice settings.
7. Communicate effectively, both orally and in writing, with peers and the wider scholarly community and the public in general about knowledge and experience in his/her areas of expertise.
8. Employ skills, practices and/or materials which are specialized or at the forefront of a subject/discipline.

9. Critically evaluate arguments, assumptions, abstract concepts, and data to make judgments, and to frame appropriate questions to achieve solutions or identify a range of solutions to a problem.
10. Design and conduct original research with scholarly integrity that contributes to knowledge or innovation.
11. Demonstrate originality, creativity, authority, innovation, autonomy, scholarly and professional integrity, and sustained commitment in the application of knowledge and development of new ideas or processes at the forefront of work or study context including research; and,
12. Design and implement research based on ethical and professional integrity.

NORMAL LEARNING MATRIX FOR PhD PROGRMMES

Year 1: Proposal Development, Ethical Approval, and basic courses
Year 2: Data collection and basic courses
Year 3: Data analysis, Publications and Conferences
Year 4: Finalize publication and thesis writing.

Codes	Course/Module Title	Duration	Lectures	Independent study	Total Credits
PHD1101	Advanced research methods	2 weeks	30	50	55.0
PHD1102	Epidemiology	2 weeks	30	50	55.0
PHD1103	Advanced statistical analysis	3 weeks	45	70	80.0
PHD1104	Research ethics/GCLP/GCP	2 weeks	30	50	55.0

PHD1105	Systematic literature review and scientific writing	2 weeks	30	50	55.0
PHD1106	Introduction to global health	2 weeks	30	50	55.0
PHD1107	Teaching methodology	1 week	15	30	30.0
PHD TEACH	Teaching responsibilities			120	60.0
PHDSUPRV	Supervision of undergraduate/ co-supervision of postgraduate (2 students)		0	40	20.0
PHD PREST	Presentation in academic forums (2 times)		0	20	10.0
PHD CONF	Oral or poster presentation at national/international conferences (at least two)		0	20	10.0
PHDOPT	Optional courses (2) @ 1 weeks	2 weeks	30	50	55.0
Total			**240**	**640**	**540.0**

6.0 COLLEGE SUPPORT UNITS/FUNCTIONS

6.1 DIRECTORATE OF RESEARCH AND CONSULTANCY

6.1.1 Introduction

The quality of clinical services and teaching is improved a great deal from research. Since the inception of the KCMU College, many research projects are being done with collaboration between staff and students at KCMC and KCMU College. Cognizant of the central role of research, KCMU College has worked out and adopted a Research Policy based on the following objectives:

6.1.2 Objectives

(i) To define research priorities falling within national research priorities in solving local and regional health problems.

(ii) To inculcate a research culture and individual initiatives among staff and the community.

(iii) To improve the linkage between research and application of research results to allow optimal utilization of resources in the health sector.

(iv) To encourage collaborative research between scientists inside and outside the country.

To achieve the above objectives, the following strategies have been adopted:

6.1.3 Strategies

(i) Research priorities will be reviewed regularly

(ii) Establishing a Research Department and computerization of inventory of ongoing and past research to facilitate utilization of reliable data on major health problems.

(iii) Workshops will be held regularly to provide training in research methodology.

(iv) Core funding for priority health and biomedical research.

(v) Annual College estimates will be worked out to sustain research activities.

(vi) The College Research and Ethical Committee will clear all research by the College members of staff.

6.1.4 Guidelines for Conducting Research

6.1.4.1 Research Clearance.

Permission to conduct health research in Tanzania must be sought from the National Institute for Medical Research (NIMR). Research Permits are issued by the Commission for Science and Technology (COSTECH) to foreign researchers. However, the College Research Ethics Committee is authorized to issue research clearance for proposals submitted by KCMU College/KCMC staff members.

6.1.4.2 Investigators

All research to be conducted at KCMUCo/KCMC must have a senior KCMUCo staff member competent in the field of study, as a Principal Investigator (PI) or Co - PI.

6.1.4.3 Research Priority Areas

(i) Infectious diseases, especially malaria, HIV/AIDS, TB, and diarrhea.
(ii) Non-communicable diseases which include cardiovascular diseases, physical disabilities, diabetes, and nutritional diseases
(iii) Malignancies.
(iv) Social-cultural practices in health.

6.1.4.4 Capacity Building

This will include: -

(i) Human resource development through training and recruitment of local personnel.
(ii) Scientific exchange, knowledge, and skills transfer.
(iii) Essential equipment and/or infrastructure.

6.1.4.5 The Budget

The budget must be adequate to cover: -

(i) Research staff salaries, honoraria, or allowances and periderms for all local participating staff;
(ii) Training – short and/or long courses depending on project size.
(iii) Institutional costs which include 10 % of budget costs as overheads.

6.1.4.6 Ethical issues

Health research must maintain ethical standards outlined in the “Guidelines on Ethics for Health Research in Tanzania”.

6.1.4.7 Research output

Research proposals must address: -

(i) Clear procedures for information dissemination.
(ii) Where the results will be published Order of authorship.
(iii) Acknowledgement of sponsor, participating institution, and support staff.

6.1.4.8 Availability of Products

Contract agreement should be drawn to ensure that a product with proven beneficial effects is made available to all research subjects and the community.

6.1.4.9 Archived Specimens

Where archived are required for another experiment, investigators must submit a new application for ethical clearance.

6.1.4.10 Patent Rights and Sharing of Benefits

In research involving commercial products, collaborators should draw contract agreements detailing among other issues: -

(i) How intellectual property rights matters shall be dealt with.
(ii) Anticipated benefits and risks that may have to be shared.

6.1.4.11 Disposal of Residual Resources

Disposal of research input resources at the completion of study must be specified between collaborating institutions and where necessary the participating communities. The disposal should however aim at capacity building at the host institution.

6.2 THE MEDICAL LIBRARY

The library provides facilities for literature search. It has 20,000 volumes, about 40 periodicals, journals, and a medical illustration unit. In addition, various Faculties have their own small libraries. The main library staff gives expert advice on how to manage them.

Library Opening Hours

Monday - Friday: 9.00a.m.to 10.00 p.m.
Saturday: - 9.00 a.m. to 6.00 p.m.

6.3 THE TEACHING HOSPITAL – KCMC

KCMC is a referral hospital for the Northern Zone of Tanzania (Kilimanjaro, Tanga, Arusha, Manyara, Dodoma and Singida). In addition, KCMC has well established Outreach Services and Community Health Services, whereby its specialists visit hospitals in many parts of the country by air or by road, with over 250 service days per year. Other outreach activities are home visits by the social welfare department, mother-child health care and occupational therapy.

The teaching and research activities going on in the hospital are intense. This hospital is the main teaching hospital for the KCMUCo. It provides and promotes a very conducive environment for teaching and learning.

6.4 STUDENTS WELFARE SERVICES

6.4.1 Hostels and Accommodation

(i) The Kilimanjaro Hostel is within the college campus can accommodate about 44 college students mainly newcomers.

(ii) The Nuru Hostel facilitated by the Good Samaritan Foundation accommodates 60 college students is close-by within one kilometer from the college. Both hostels have food catering services.

(iii) An accommodation in some of the allied sciences schools' hostels is extended to KCMU-College students. Some of these hostels have cooking facilities.

(iv) Additional lodging facilities and preferred by students are offered by neighboring rent houses within two to three kilometers of the college campus.

6.4.2 Student Activities

Student activities are organized by Tumaini University Makumira Students Organization (TUMaSO) and Kilimanjaro Christian Medical University College (TUMaSO – KCMUCo) Students Organization. They are concerned with student's academic, social, and recreational activities. Plans

have been made to expand sports and games facilities to cater for the needs of of students and staff.

6.4.3 Religious Activities

KCMUCo is committed to proclaim Christ through increasing number.

healing, teaching, and research. It strives to combine professional excellence with a spirit of compassion and servant hood while fulfilling the call of teaching, healing, and research.

Although KCMUCo is a Christian institution, students and staff have complete freedom of worship. Membership, too, of the College is open to all persons without distinction of race, ethnic origin, sex, or religion.

There are facilities for worship for Christians and other denominations. The Chaplaincy is ecumenical, and the Department of Clinical Pastoral Education provides pastoral services to the KCMC Community including neighboring communities. The Chaplaincy provides spiritual consultation to patients, staff, and students.

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