BUGANDO MEDICAL CENTRE

AND

CATHOLIC UNIVERSITY OF HEALTH AND ALLIED SCIENCES

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MEMBERS OF BOARD OF CATHOLIC UNIVERSITIES OF TANZANIA

	NAME	TITLE
1.	Most Rev. Renatus Nkwande	Archbishop of Mwanza, Chairman
2.	Most Rev. Jude Thaddeus Ruwa'ichi	Archbishop of Dar es Salaam,
3.	His Eminence Cardinal P. Rugambwa	Archbishop of Tabora
4.	Most Rev. Gervas Nyaisonga	Archbishop of Mbeya
5.	Most Rev. Damian Denis Dallu	Archbishop of Songea
6.	Most Rev. Isaack Amani	Archbishop of Arusha
7.	Most Rev. Beatus Kinyaiya	Archbishop of Dodoma
8.	Rt. Rev. Romanus Mihali	Bishop of Iringa
9.	Rt. Rev. Ludovick Minde	Bishop of Moshi
10.	Rt. Rev. Titus Mdoe	Bishop of Mtwara
11.	Rt. Rev. Salutaris M. Libena	Bishop of Ifakara
12.	Rt. Rev. Bernadin Mfumbusa	Bishop of Kondoa
13.	Rt. Rev. Severine NiweMugizi	Bishop of Rulenge-Ngara
14.	Rt. Rev. Flavian Kassala	Bishop of Geita
15.	Rt. Rev. John C. Ndimbo	Bishop of Mbinga
16.	Rev. Fr. Ferdinand Lukoa, SDS	Provincial Superior - SDS
17.	Rev.Fr. Adv. Pantaleon Rutambuka	Secretary

IN ATTENDENCE

18.	Rev. Prof. Juvenalis Asantemungu	Ag.Vice Chancellor, SAUT
19.	Prof. Erasmus Kamugisha	Vice Chancellor, CUHAS
20.	Rev. Dr. Philbert Vumilia	Vice Chancellor, MWECAU
21.	Sr. Prof. Chrispina Lekule	Vice Chancellor, RUCU

22.	Prof. Romuald Haule	Vice Chancellor, CUoM
23.	Rev. Prof. Thadeus Mkamwa	Principal, STEMMUCO
24.	Rev. Prof. Juvenalis Asantemungu	Principal, AMUCTA
25.	Prof. Albino Kalolo	Principal, SFUCHAS
26.	Prof. Bertram Mapunda	Principal, JUCO
27.	Prof. Osmund K. Kaunde	Principal, MARUCO
28.	Rev. Dr. Charles Gervas Rufyriza	Director, SAUT-Arusha Centre
29.	Rev. Dr. Longino Rutagwelera	Principal, SOCAITE
30.	Rev. Dr. Gaston Ngonyani	Principal, PIHAS
31.	Mr. Ananias Rutambuka	For Principal, VICAPOC
32.	Dr. Crispin Mbogo	Director, SAUT-Dar Centre
33.	Prof. Osaki Kalafunja	Executive Secretary, TECUS

MEMBERS OF CUHAS- UNIVERSITY COUNCIL

1.	Rt. Rev. Severine NiweMugizi	Bishop of Rulenge Ngara-Chairman
2.	Most Rev. Renatus Nkwande	Archbishop of Mwanza
3.	Rt. Rev. Eusebius Alfred Nzigilwa	Bishop of Mpanda
4.	Rev.Prof. Juvenalis Asantemungu	Ag.Vice-Chancellor, SAUT
5.	Fr. Dr. Charles Kitima	General Secretary, TEC
6	Sr. Dr. Alicia Massenga	Director General, BMC
7.	Mr. Florian John Gaare	For Director, Higher Education, MoEST
8.	Dr. Loishooki Saitore Laizer	Director, Human Resources Development, MoH
9.	Mr. Erick Mwelulila	Male Representative of the Laity
10.	Prof. Eligius Lyamuya	Appointee, CUHAS Senate
11.	Prof. Paschal Ruggajo	Renowned Medical Doctor
12	Prof. Erasmus Kamugisha	Vice Chancellor, CUHAS
13.	TBN	Female Representative of the Laity
14.	Prof. Flora Fabian	Appointee of VC from Mwanza University
15.		CUHASSO President

16.	Fr. Pantaleon Rutambuka	Corporate Counsel CUHAS/Secretary

In Attendance:

1.	Prof. Peter Rambau	Deputy Vice Chancellor (ARC)
2.	Prof. Stephen Mshana	Deputy Vice Chancellor (PFA)

MEMBERS OF THE CUHAS SENATE

1.	Prof. Erasmus Kamugisha	Vice Chancellor/Chairman
2.	Fr. Pantaleon Rutambuka	Corporate Counsel/Secretary.
3.	Prof. Peter Rambau	Deputy Vice Chancellor (ARC)
4.	Prof. Stephen Mshana	Deputy Vice Chancellor (PFA)
5.	Dr. Haruna Dika	Dean, Weill Bugando School of Medicine
6.	Prof. Semvua Kilonzo	Director, Postgraduate Studies
7.	Prof. Eligius Lyamuya	Appointee of the Owner
8.	Sr. Mary Auxilia Mtuy	Dean of Students
9.	Prof. Jeremiah Seni	Director, Research and Innovations
10.	Mr. Mholya Zabron Falle	Director IAHS
11.	Prof. Domenica Morona	Director of Quality Assurance
12.	Ms. Aziza Gihega	Representing Director Library Services
13.	TBA	Director ICT
14.	Dr. Kija Malale	Ag.Dean AAMSoN
15.	Dr. Karol Marwa	Dean School of Pharmacy
16.	Prof. Humphrey Mazigo	Dean School of Public Health
17.	Prof. Zablon. E. Masesa	Appointee of the VC/Admissions Officer
18.	Prof. Mariam Mirambo	Associate Professor, Appointee of VC
19.	Prof. Martha Mushi	Associate Professor, Appointee of VC
20.	Dr. Samson Kichiba	Director of Surgical Services BMC
21.	Dr. Elias C. Nyanza	Director of Planning, Business Development and Investment
22.		Undergraduate Students' representative
23.		IAHS Students representative
24.		Postgraduate Students representative

SENIOR OFFICERS OF CUHAS

The Chancellor

Rt.Rev. Wolfgang Pisa, OFMCap	Bishop of Lindi and President of Tanzania Episcopal Conference (TEC)

Vice Chancellor

Prof. Erasmus Kamugisha	*MD (UDSM); MSc (Makerere); PhD (CUHAS)*

Deputy Vice Chancellor Academics Research and Consultancy (ARC)

Prof. Peter Rambau,	*MD (UDSM), MMed (Makerere), PhD (Calgary)*

Deputy Vice Chancellor Finance, Planning and Administration (PFA)

Prof. Stephen E. Mshana,	*MD (UDSM); MMed (Makerere); PhD (SAUT), Fell. Med. Edu (SA)*

Dean: Weill Bugando School of Medicine

Dr. Haruna Dika,	*MD (UDSM); MSc. (Makerere), PhD (Calgary)*

Associate Deans, Weill Bugando School of Medicine

Dr. Erius Tebuka,	*MD (SAUT), MMed(MUHAS)*
Dr. Dismas Matovelo	*MD (UDSM), MMed (SAUT)*

Dean, School of Pharmacy

Dr. Karol Marwa	*BPharm (UDSM), MSc (Mbarara), PhD(CUHAS)*

Acting Dean, Archbishop Anthony Mayala School of Nursing

Dr. Kija Malale	*BScN (MUHAS); MSc (Kenya), PhD (China), Postdoc (South Africa)*

Dean, School of Public Health

Prof. Humphrey Mazigo,	*BVM(SUA), MSc (Jomo Kenyatta) MPH (CUHAS), PhD (Makerere)*

Director: Institute of Allied Health Sciences

Mr. Mholya Zablon Falle	*DMLS (CUHAS), BMLS (CUHAS), MSc (CUHAS)*

Director: Postgraduate Studies

Prof. Semvua Kilonzo	*MD (Tumaini), MMed(CUHAS), PhD (China)*

Director: Research and Innovation

Prof. Jeremiah Seni	*MD(UDSM), MMed (Makerere), PhD (Calgary)*

Director: Quality Assurance

Prof. Domenica Morona	*MSc. (Switzerland) MSc (UK), PhD (Switzerland), Post-Doc (Ifakara).*

Associate Director: Quality Assurance

Dr. Adolfine Hokororo	*MD (Russia), MMed (Makerere), MSc. (USA)*

Director: Planning, Business Development and Investment

Dr. Elias C. Nyanza	*PHHC (Kuopio), BSc (SUA), MPH(SAUT), PhD(Calgary)*

Chief Accountant

Mr. Emmanuel Budodi	*BBA (SAUT), MSc.FI (IFM), CFIP (IIFI), CPA (NBAA)*

Chief Internal Auditor

Ms. Bahati Michael Kilungu	*ADA (SAUT), CPA (T), (NBAA) MSc. (Mzumbe)*

Chaplain

Rev. Fr. Christopher Matunda Dinho	*BA (Rome), MA (Rome)*

Corporate Counsel

Fr. Pantaleon Rutambuka	*BA Theol(Rome), LLB (SAUT), Postgraduate Diploma (LST), LLM (SAUT)*

Acting Public Relations Officer

Ms. Thandiwe Y. Peter	*BCom (Australia), MStrtHRM (Australia); MCom (Australia)*

Director: Human Resources Management & Administration

Ms. Norice Frank	BPA (Mzumbe), MSc.HRM (Mzumbe)

Estates Manager

Vacant

Ag. Director: ICT

Mr. Andrew Mihayo Magese	*Dipl. (UCC), BSc (OUT)*

ADDRESS/CONTACTS

Vice Chancellor Catholic University of Health and Allied Sciences P.O. Box 1464, Mwanza, Tanzania Post Code: 33102 Tel: 255-28-2983384; FAX: 255-28-2983386 Email: vc@bugando.ac.tz Website: http://www.bugando.ac.tz Physical Address: Wurzburg Road 35, BMC Premises	**Chancellor** Tanzania Episcopal Conference (TEC) P. O. Box 2133, Dar es Salaam, Tanzania Tel: 022-851075-9; Fax: 022-857133/850295 E-mail: info@tec.or.tz
Chairman of Council Diocese of Rulenge-Ngara P.O. Box 135 Ngara	**CUHAS Students' Organisation (CUHASSO)** Catholic University of Health and Allied Sciences P.O. Box 1464, Mwanza. Tanzania
University Bankers CRDB Bugando Branch P. O. Box 1330, Mwanza, Tanzania Tel: 255-28-2500053, 255-28-2500050 Fax: 255-28-2500040	**University Advocates** Nasimire & Company Advocates P. O. Box 261, Mwanza Tanzania. Tel: 028-2550048 Mobile: 0754 389820 Email: nasimire_advocates@yahoo.com
TAC ASSOCIATES Lake Zone office: TAC associates P.o.Box 580 Mwanza CMG (Exim Bank Building), 2nd Floor. Email: tac@cats-net.co.tz	

PREAMBLE

For the next three academic years 2024/2025 to 2026/2027, which coincide with the first term of the 3rd Vice Chancellor; The University's focus will be to make further investment in facilitating high quality training, relevant and impactful research and consultancy services that continue to drive us towards realising our Mission.

We have challenged ourselves to continue improving the learning and social environment for our students including investing in a modern Post-graduate Block. We will continue to recruit the much-needed qualified faculty and support staff to increase our capacity in quality service delivery. Furthermore, we shall maintain our compliance to regulatory standards as benchmarks, while differentiating ourselves by providing a modern, efficient and friendly learning environment, and retaining the learning experience that is unique to Bugando.

The University has introduced new Masters degrees including; Master of Science in Epidemiology & Biostatistics, Master of Medicine in Anatomical Pathology, Master of Medicine in Radiology and Master of Medicine in Orthopedics & Trauma. Other programmes expected to be developed in the near future include Doctor of Dentistry, Master of Medicine in Ear, Nose and Throat and other Super-specialized programmes. The goal is to address the identified professional gaps in the health sector while increasing career opportunities for students from around the Lake Zone, elsewhere in Tanzania and beyond.

CUHAS is a place where students are educated to become responsible, caring professionals and law-abiding citizens, during and after training. All students should expect this as part and parcel of your everyday professional upbringing, as you diligently work to attain good grades. Discipline, Diligence and Excellence should be aspirational qualities for every student who chooses to study at CUHAS. We hope that your time at CUHAS will be a productive, positively memorable and a worthwhile investment in your future career and life in general.

PROF. ERASMUS KAMUGISHA
VICE CHANCELLOR
CUHAS

MISSION AND VISION OF THE CUHAS

Vision of the University

To become an outstanding Tanzanian Catholic University excelling in health care, training and research, that espouses moral and ethical values and are responsive to societal needs.

Mission of the University

Activities of the University will be guided by the following mission statements:

- *To provide skilled and competent human resources in the health sector that is vested with moral and ethical values,*
- *Search, discover and communicate the truth to advance the frontiers of knowledge and*
- *Provide quality services to the community.*

CUHAS Motto

Discipline, Diligence & Excellence

Core functions

Teaching, Research & Consultancy Services

CUHAS Values

In order to achieve its mission functions and transform the University into a respectable Tanzanian institution, the university management is committed to ensure that the following values will be observed and upheld at all times:

i) Equity and Justice

The CUHAS management through its operations will ensure equal opportunity and exercise social justice and non-discrimination on the basis of gender, race, religion, political affiliation, disability or any other form.

ii) Professional standards, Ethical and Moral norms

The University management, staff and students will uphold the highest professional standards, ethical practices, respect for persons and human dignity.

iii) Academic Excellence

Academic excellence will be a corner stone in all teaching, learning and advancement of frontiers of knowledge as well as by delivery of quality and relevant public services to communities in the country, region and globally.

iv) Academic Freedom

Academic freedom of expression, critical thought and enquiry through openness, transparency and tolerance will be upheld and emphasized.

v) Creativity

The University will work towards enhancing creativity by students and staff by enhancing entrepreneurial skills and capacity to work independently.

vi) Respect for and Abide to the Laws and Constitution of the Country

The University staff and students shall enhance citizenry through abidance to the Tanzanian Constitution and the law of the land.

vii) Foster its Catholic Identity

As a Catholic University, it will uphold catholic ideals, attitudes and principles in its teaching research and service.

ACADEMIC PROGRAMMES

The University offers courses and programmes leading to the award of certificates, diplomas, and degrees at both undergraduate and postgraduate levels. It also offers other programmes, consultancy services and seminars to clients who need them. The following are our academic programmes:

A) CURRENT PROGRAMMES

i. Diploma Programmes

Diploma in Pharmaceutical Sciences	3 years
Diploma in Medical Laboratory Sciences	3 years
Diploma in Diagnostic Radiography	3 years

ii. Undergraduate programme

Doctor of Medicine (MD)	5 years
Bachelor of Pharmacy (B.Pharm)	4 years
Bachelor of Science in Nursing Education (BSc.NED)	4 years
Bachelor of Medical Laboratory Sciences (BMLS)	3 years
Bachelor of Science in Nursing (BSc.N)	4 years
Bachelor of Science in Medical Imaging and Radiotherapy (BSc.MIR)	4 years

iii. Postgraduate Programmes

Master of Medicine (MMed)	3 years
[Internal Medicine, Obstetrics and Gynaecology, Surgery, Paediatrics, Orthopaedics and Trauma, ENT, Anatomical Pathology]	
Master of Medicine in Radiology	4 years
Master of Public Health	1 year & 18months
Master of Science in Paediatric Nursing	2 years
Master of Science in Clinical Microbiology and Diagnostic Molecular Biology	2 years
Master of Science in Epidemiology and Biostatistics	2 years
Doctor of Philosophy (Ph. D)	3-5 years

B) PROPOSED PROGRAMMES

i	Doctor of Dental Surgery	5 years
ii	Master in Occupational and Environmental Health	3 years
iii	Master of Medicine in Clinical Microbiology and Infectious diseases	4 years
iv	Master of Medicine in Psychiatry	3 years
v	Master of Medicine in Emergency Medicine	3 years

STUDENTS' ADMISSION CRITERIA

UNDERGRADUATE PROGRAMMES

DOCTOR OF MEDICINE (MD) 5 Years

Entry Requirements

Direct Entry (Form Six)
Three principal passes in Physics, Chemistry and Biology with a minimum of 6 points: A minimum of D grade in Chemistry, Biology and Physics.

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

BACHELOR OF MEDICAL LABORATORY SCIENCES (BMLS) 3 Years

Entry Requirement

Direct Entry (Form Six)
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.

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

BACHELOR OF PHARMACY (B. PHARM) 4 Years

Entry Requirements

Direct Entry (Form Six)
Three principal passes in Physics, Chemistry and Biology with a minimum of 6 points: A minimum of D grade in Chemistry, Biology and Physics.

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

BACHELOR OF SCIENCE IN NURSING EDUCATION (BSc. NED) 4 Years

Entry Requirements

Equivalent Qualifications

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

BACHELOR OF SCIENCE IN NURSING (BSc. N) 4 Years

Entry Requirements

Direct Entry (Form Six)

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

Equivalent Qualifications

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

BACHELOR OF SCIENCE IN MEDICAL IMAGING AND RADIOTHERAPY 4 Years

Entry requirements

Direct Entry (Form Six)

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

Equivalent Qualifications

Diploma in Medical Imaging or Radiography 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.

POSTGRADUATE PROGRAMMES

CUHAS is currently offering Master of Medicine (MMED) programmes in the clinical disciplines of Internal Medicine, Surgery, Obstetrics and Gynaecology, and Paediatrics and Child Health, Orthopedics and Trauma, Anatomical Pathology and Radiology. We also offer Master of Public Health, Master of Science in Paediatric Nursing, Master of Science in Clinical Microbiology and Diagnostic Molecular Biology, Master of Science in Epidemiology and Biostatistics and PhD programmes in various specialties.

MASTER OF MEDICINE — 3 & 4 Years

Entry requirements

i) A holder of **MD degree** or **its equivalent** from a recognized institution of higher learning with an **average of "B"** or **a minimum GPA of 2.7**
ii) Must have a valid license to practice as a registered medical practitioner with the Medical Council of Tanganyika (MCT) (or accredited equivalent authority outside Tanzania approved by the MCT) before their enrolment to the programme

MASTER OF PUBLIC HEALTH — 1 Year & 18 Months

Entry Requirements

i) Holders of MD degree or its equivalent with a pass of B grade or above in Community Medicine.
ii) Holders of B. Sc. Nursing degree with a pass of B grade or above in Community Medicine and at least one year of working experience.
iii) Holders of first degree in health-related disciplines provided they passed with a GPA of at least 2.7 during undergraduate training
iv) Holders of Master Degree in health-related disciplines with at least one year of working experience.

MASTER OF SCIENCE IN PAEDIATRIC NURSING — 2 Years

Entry Requirements

i. A GPA of at least 2.7 in Bachelor of Science in Nursing (BScN), or Bachelor of Science in Nursing education (BSc.NE) or Bachelor of Science in Mental Health Nursing (BSc.M) or Bachelor of Science in Midwifery (BSc.Mid) or Bachelor of Science in Nursing Management from a recognized University
ii. Graduates from the other recognized Universities with at least a GPA of 2.7 in their first degrees mentioned above are eligible for selection when **they have fulfilled the following criteria** specified under item iii. and iv, below.
iii. Graduates mentioned in item i. above should have a minimum of 2 years work experience
iv. Graduates should have a valid license to practice as registered nurses and midwives with the Tanzania Nurses and Midwives Council (TNMC) before their enrolment to the programme.

MASTER OF SCIENCE IN CLINICAL MICROBIOLOGY AND DIAGNOSTIC MOLECULAR BIOLOGY 2 Years

Entry Requirements

i) Holders of First degree in Medical Laboratory Sciences OR its equivalent with overall GPA not less than 2.7

ii) Holders of first degree in Health Sciences with overall GPA not less than 2.7 or B grade for unclassified degrees provided they passed with at least B grade or above in Microbiology/Immunology, Molecular Biology or Biochemistry or Cell biology with at least 200 hrs.

iii) Holders of Bachelor of Science degree in Biomedical Sciences (Microbiology or Molecular Biology or Immunology or Parasitology or Bachelor in Laboratory Sciences) with an overall GPA not less than 2.7 provided they passed with at least B grade or above in Microbiology/Immunology, Molecular Biology or Biochemistry or Cell Biology.

MASTER OF SCIENCE IN EPIDEMIOLOGY AND BIOSTATISTICS 2 Years

Entry Requirements

i) Holders of first degree in Health Sciences (Medicine, Medical laboratory Sciences, Nursing, Pharmacy, Dentistry, Nutrition, Veterinary, etc) with overall GPA not less than 2.7 or B grade for unclassified degrees. The candidate must have credit pass in Mathematics at undergraduate level and pass in Basic applied Mathematics (BAM)

ii) Holders of First degree in Statistics, Applied Statistics, Mathematics, Biometrics, or its equivalent with overall GPA not less than 2.7 or at least B grade for unclassified degrees.

iii) Holders of First degree in Medicine with at least B in "Epidemiology and Biostatistics subjects"

iv) Holders of Health-related Masters with at least B grade for unclassified degrees or overall GPA not less than 2.7

DOCTOR OF PHILOSOPHY 3-5 Years

Requirement for PhD Registration

(i) The prospective candidate must demonstrate the capacity to carry out research independently and ability to pursue the proposed study programme.

(ii) A candidate for admission for a PhD must be a holder of a relevant Master Degree (MSc, MPH or MMed) of CUHAS-Bugando or any other recognized institution of higher learning within or outside Tanzania.

(iii) Doctor of Medicine or BVM/DVM under special MD-PhD or BVM/DVM-PhD Programmes

DIPLOMA PROGRAMMES 3 Years

The following diploma courses are offered by the Institute of Allied Health Sciences:

- Diploma in Medical Laboratory Sciences (DMLS)
- Diploma in Diagnostic Radiology (DDR)
- Diploma in Pharmaceutical Sciences (DPS)

Entry Requirements

i) A holder of form VI certificate ('A' Level) with one principal and two subsidiaries in the science subjects of Biology, Chemistry, Physics or Mathematics

OR

ii) A holder of form IV certificate ('O' Level) of Secondary School Education OR equivalent with FIVE PASSES with at least a D grade in the following subjects; Biology, Chemistry, Physics, Mathematics and English.

STUDENTS ADMISSION REQUIREMENTS

For those who qualify and are selected

a) Payment of a Non-Refundable registration fee to be determined by the University from time to time.
b) Proof of ability to pay the Annual Fees set by the University. This may be through certified sponsorship or other written proof.
c) Compliance with any other conditions that the University may deem appropriate.

STUDENTS ADMISSION PROCEDURES

All candidates must complete the prescribed Registration forms, to which should be attached the required supporting documents, within the time specified by the University Announcement.

FINANCIAL INFORMATION

Fees and other financial obligations are the sole responsibility of the student and/or the sponsor or guardian. The fees are payable in full at the beginning of each academic year or in two instalments; at the beginning of each semester or four equal instalments. All payments must be done by using CONTROL NUMBERS. **Failure of payment of required Fees by the end of week two of the second semester will attract a penalty of 50,000/=. The fourth and final instalment must be paid two weeks on/or before Examination, another penalty of 50,000/= will be charged for non-payment of the final instalment.** No student will be allowed to carry forward part of the fee into the following academic year. Fees may be revised from time to time without prior notice. New fee structures will apply for new intake as well as for continuing students. Fees paid will not be refunded after the first four weeks of the academic year. **Any excess/extra fees paid will be carried forward to the next year.** ***Any refund, if necessary, will attract a processing fee of Tsh. 50,000/=.***

It is envisaged that student can take advantage of scholarships offered by the Ministry of Education and Vocational Training, loans from the Higher Education Student Loan Board (HESLB) and Scholarships from The Ministry of Health and Social Welfare for postgraduate and students in the Institute of Allied Health Sciences.

The following fees will be applicable for the **2025/2026**academic year:

FEE STRUCTURE FOR NATIONAL STUDENTS - UNDERGRADUATE PROGRAMMES

DOCTOR OF MEDICINE (MD)

CUHAS FEE STRUCTURE 2025/26 in '000'					
Figures in TSh '000	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**
A. Payable to University	-	-	-	-	-
Tuition	5,600	5,400	5,400	5,000	4,900
Special Faculty Requirement	150	150	150	150	150
Exam fee	300	300	300	300	230
Sustainability Fund	30	30	30	30	30
TCU Quality Assurance Fee	20	20	20	20	20
Registration[1]	15	15	15	15	15
ID card	10	-	-	-	-
Graduation Congregation Fee	-	-	-	-	70
Caution Money	50	-	-	-	-
Development Levy	100	100	100	100	100
Student Union	25	25	25	25	25
Field Supervision	50	50	50	50	-
Transcript Fee	-	-	-	-	30
Convocation Fees	-	-	-	-	50
Total Cost to University	**6,350**	**6,090**	**6,090**	**5,690**	**5,690**
B. Payable to NHIF					
Medical Capitation	50.40	50.40	50.40	50.40	50.40
C. Payable to Students					
Accommodation	600	600	600	600	600
Stationery	100	100	10	100	100.0
Books	300	300	300	300	300.0
Elective & Research	-	-	-	560	-
Fieldwork	-	280	280	-	280
Meals	2,618	2,618	2,618	2,618	2,618
Total Cost to Student	**3,668.4**	**3,948.4**	**3,948.4**	**4,228.4**	**3,948.4**
Grand Total	**10,018.4**	**10,038.4**	**10,038.4**	**9,918,4**	**9,638.4**

BACHELOR OF PHARMACY (B. PHARM)

CUHAS FEE STRUCTURE 2025/26 in '000'				
Figures in TSh '000	**Year 1**	**Year 2**	**Year 3**	**Year 4**
A. Payable to University	-	-	-	
Tuition	5,600	5,400	5,400	5,000
Special Faculty Requirement	150	150	150	150
Exam fee	300	300	300	300
Sustainability Fund	30	30	30	30
TCU Quality Assurance Fee	20	20	20	20
Registration[1]	15	15	15	15
ID card	10	-	-	-
Graduation Congregation Fee	-	-	-	70
Caution Money	50	-	-	-
Development Levy	100	100	100	100
Student Union	25	25	25	25
Field Supervision	50	50	50	-
Transcript Fee	-	-	-	30
Convocation Fees	-	-	-	50
Total Cost to University	**6,350**	**6,090**	**6,090**	**5,790**
B. Payable to NHIF				
Medical Capitation	50.40	50.40	50.40	50.40
C. Payable to Students				
Accommodation	600	600	600	600
Stationery	100	100	100	100
Books	300	300	300	300
Elective & Research	-	-	-	560
Fieldwork	-	280	280	-
Meals	2,618	2,618	2,618	2,618
Total Cost to Student	**3,668.4**	**3,948.4**	**3,948.4**	**4,228.4**
Grand Total	**10,018.4**	**10,038.4**	**10,038.4**	**10,018.4**

BACHELOR OF SCIENCE IN NURSING & BACHELOR OF SCIENCE IN NURSING EDUCATION (BSc.NED & BSc.N)

CUHAS FEE STRUCTURE 2025/26 in '000'				
Figures in TSh '000	**Year 1**	**Year 2**	**Year 3**	**Year 4**
A. Payable to University	-	-	-	
Tuition	5,600	5,400	5,400	5,000
Special Faculty Requirement	150	150	150	150
Exam fee	300	300	300	300
Sustainability Fund	30	30	30	30
TCU Quality Assurance Fee	20	20	20	20
Registration[1]	15	15	15	15
ID card	10	-	-	-
Graduation Congregation Fee	-	-	-	70
Caution Money	50	-	-	-
Development Levy	100	100	100	100
Student Union	25	25	25	25
Field Supervision	50	50	50	-
Transcript Fee	-	-	-	30
Convocation Fees	-	-	-	50
Total Cost to University	**6,350**	**6,090**	**6,090**	**5,790**
B. Payable to NHIF				
Accommodation	600	600	600	600
Medical Capitation	50.40	50.40	50.40	50.40
C. Payable to Students				
Stationery	100	100.0	100	100
Books	300	300.0	300	300
Elective & Research	-	-	-	-
Fieldwork	-	-	280	280
Meals	2,618	2,618	2,618	2,618
Total Cost to Student	**3,668.4**	**3,948.4**	**3,948.4**	**4,508.4**
Grand Total	**10,018.4**	**10,038.4**	**10,038.4**	**10,298.4**

BACHELOR OF SCIENCE IN MEDICAL IMAGING AND RADIOTHERAPY (BScMIR)

CUHAS FEE STRUCTURE 2025/26 in '000'				
Figures in TSh '000	**Year 1**	**Year 2**	**Year 3**	**Year 4**
A. Payable to University	-	-	-	
Tuition	5,700	5,500	5,500	5,100
Special Faculty Requirement	150	150	150	150
Exam fee	300	300	300	300
Sustainability Fund	30	30	30	30
TCU Quality Assurance Fee	20	20	20	20
Registration[1]	15	15	15	15
ID card	10	-	-	-
Graduation Congregation Fee	-	-	-	70
Caution Money	50	-	-	-
Development Levy	100	100	100	100
Student Union	25	25	25	25
Field Supervision	50	50	-	-
Transcript Fee	-	-	-	30
Convocation Fees	-	-	-	50
Total Cost to University	**6,450**	**6,190**	**6,190**	**5,940**
B. Payable to NHIF				
Medical Capitation	50.40	50.40	50.40	50.40
C. Payable to Students				
Accommodation	600	600	600	600
Stationery	100	100	100	100
Books	300	300	300	300
Elective & Research	-	-	-	560
Fieldwork	-	-	280	-
Meals	2,618	2,618	2,618	2,618
Total Cost to Student	**3,668.4**	**3,668.4**	**3,948.4**	**4,018.4**
Grand Total	**10,118.4**	**9,858.4**	**10,138.4**	**9,958.4**

BACHELOR OF MEDICAL LABORATORY SCIENCES (BMLS)

CUHAS FEE STRUCTURE 2025/26 in '000'			
Figures in TSh '000	**Year 1**	**Year 2**	**Year 3**
A. Payable to University	-	-	
Tuition	5,500	5,300	5,350
Special Faculty Requirement	150	150	150
Exam fee	300	300	300.00
Sustainability Fund	30	30	30
TCU Quality Assurance Fee	20	20	20
Registration[1]	15	15	15
ID card	10	-	-
Graduation Congregation Fee	-	-	70
Caution Money	50	-	-
Development Levy	100	100	100
Student Union	25	25	25
Field Supervision	50	50	-
Transcript Fee	-	-	30
Convocation Fees	-	-	50
Total Cost to University	**6,250**	**5,990**	**6,090**
B. Payable to NHIF			
Accommodation	600	600	600
Medical Capitation	50.40	50.40	50.40
C. Payable to Students			
Stationery	100	100	100
Books	300	300	300
Elective & Research	-	-	560
Fieldwork	-	-	-
Meals	2,618	2,618	2,618
Total Cost to Student	**3,668.4**	**3,668.4**	**4,788.4**
Grand Total	**9,918.4**	**9,658.4**	**10,878.4**

NB:

1) *GRADUATION CONGREGATION FEE (70,000/=) is payable by all finalist at the beginning of the year.*
2) *The University has limited accommodation. Accommodation will be charged as follows: 1,200,000/= per year for a single room, 600,000/= per year for each of two students sharing a room.* ***NOTE Full Payment should be done after consultation with the WARDEN to guarantee the availability of the rooms.***
3) ***** ***Medical Capitation****: All Students are required to pay medical capitation of Tsh.* ***50,400/= to NHIF*** *using control number obtained from OSIM. Students* ***with recognized and valid Health Insurance Schemes will NOT be required to pay Tsh. 50,400/=***

Moneys Payable to the Student (MD, BPharm, BSc.NED, BMLS, BScN and BScMIR) Programmes

The amounts listed as "Payable to Students" are indicative moneys payable to the student to meet costs for meals, stationery, textbooks, field work and special faculty requirements. CUHAS will not handle student's personal money. Any extra money included in the fees will be assumed to be prepayments for the subsequent year. All moneys meant for personal use should be paid directly to the student.

FEE STRUCTURE FOR FOREIGN STUDENTS- UNDERGRADUATE PROGRAMMES
(MD, B. PHARM, BSc.NED, BMLS, BSc.N, BSc.MIR)

Figures in US$	*Year 1*	*Year 2*	*Year 3*	*Year 4*	*Year 5*
Fees Payable to the University					
Tuition	3,500	3,500	3,500	3,500	3,500
Exam fee	120	120	120	120	120
Graduation fee	-	-	-	-	25
Admission/Administrative fee	-	-	-	-	-
Sustainability Fund	15	15	15	15	15
Registration	10	10	10	10	10
ID card	10	-	-	-	-
Medical	100	100	100	100	100
Caution Money	25	-	-	-	-
Equipment/ Special Faculty Requirement	75	75	75	75	75
Accommodation	400	400	400	400	400
Convocation Fees	-	-	-	-	25
Transcript Fees	-	-	-	-	15
Development Levy	50	50	50	50	50
Total Cost to University	**4,305**	**4,270**	**4,270**	**4,270**	**4,335**
Payable to Students					
Student Union	40	40	40	40	40
Stationery	200	200	200	200	200
Books	500	500	500	500	500
Elective &Field	-	-	-	1000	-
Fieldwork	-	700	700	-	-
Meals	1,250	1,250	1,250	1,250	1,250
Total Cost to Student	**1,990**	**2,690**	**2,690**	**2,990**	**1,990**
Grand Total	**6,295**	**6,960**	**6,960**	**7,260**	**6,325**

NB: 1) GRADUATION FEE (25 US $) and CONVOCATION FEES($25) is payable by all finalist at the beginning of the year.

FEE STRUCTURE FOR POSTGRADUATE PROGRAMMES

MMED Fee Structure (National) except MMED Radiology Fees

CUHAS FEE STRUCTURE 2025/26 MMED '000'			
Figures in TSh '000	**Year 1**	**Year 2**	**Year 3**
A. Payable to University	-	-	-
Tuition	**6,600**	**6,400**	**6,000**
Equipment/ Special Faculty Requirement	200	200	200
Exam fee	350	350	350
Sustainability Fund	30	30	30
TCU Quality Assurance Fee	20	20	20
Registration	25	25	25
ID card	10	-	-
Graduation Congregation Fee	-	-	70
Caution Money	50	-	-
Student Union	25	25	25
Convocation Fees	-	-	50
Transcript Fees	-	-	30
Development Levy	100	100	100
Total Cost to University	**7,410**	**7,150**	**7,300**
B. Payable to Students			
Accommodation	1,200	1,200	1,200
Stationery	250	250	250
Books	600	600	600
Elective & Research	-	2,500	-
Dissertation	-	500	-
Meals	9,600	9,600	9,600
Total Cost to Student	**11,650**	**14,650**	**11,650**
Grand Total	**19,060**	**21,800**	**18,950**

MMED Radiology Fee Structure

CUHAS FEE STRUCTURE 2025/26 MMED RAD '000'				
Figures in TSh '000	**Year 1**	**Year 2**	**Year 3**	**Year 4**
A. Payable to University	-	-	-	
Tuition	**6,700**	**6,500**	**6,100**	**6,100**
Equipment/ Special Faculty Requirement	200	200	200	200
Exam fee	350	350	350	350
Sustainability Fund	30	30	30	30
TCU Quality Assurance Fee	20	20	20	20
Registration	25	25	25	25
ID card	10	-	-	-
Graduation Congregation Fee	-	-	-	70
Caution Money	50	-	-	-
Student Union	25	25	25	25
Convocation Fees	-	-	-	50
Transcript Fees	-	-	-	30
Development Levy	100	100	100	100
Total Cost to University	**7,510**	**7,450**	**7,450**	**7,200**
B. Payable to Students				
Accommodation	1,200	1,200	1,200	1,200
Stationery	250	250	250	250
Books	600	600	600	600
Elective & Research	-	2,500	-	-
Dissertation	-	500	-	-
Meals	9,600	9,600	9,600	9,600
Total Cost to Student	**11,650**	**14,650**	**11,650**	**11,650**
Grand Total	**19,160**	**22,100**	**19,100**	**18,850**

NB: 1 GRADUATION FEE Tsh. (70,000/=) is payable by all inalist at the beginning of the year.

NB: 2) There is limited accommodation at CUHAS at a cost of 1,200,000/= Tsh. without utility (electricity and water) charges. Utility can cost up to 500,000/= Tsh. per year.

MMED Fee Structure (Foreign)

Fees Payable to the University

CUHAS FEE STRUCTURE 2025/26 MMED (US Dollars)			
Figures in USD	**Year 1**	**Year 2**	**Year 3**
A. Payable to University	-	-	-
Tuition	**3,100**	**3,100**	**3,100**
Equipment/ Special Faculty Requirement	100	100	100
Exam fee	150	150	150
Sustainability Fund	15	15	15
TCU Quality Assurance Fee	10	10	10
Registration	20	20	20
ID card	10	-	-
Graduation Congregation Fee	-	-	40
Caution Money	25	-	-
Student Union	10	10	10
Accommodation	800	800	800
Convocation Fees	-	-	25
Transcript Fees	-	-	20
Development Levy	50	50	50
Total Cost to University	**4,290**	**4,255**	**4,340**
B. Payable to Students			
Stationery	240	240	240
Books	750	750	750
Elective & Research	-	1,750	-
Dissertation	-	450	-
Meals	4,500	4,500	4,500
Total Cost to Student	**5,490**	**7,690**	**5,490**

NB: 1) GRADUATION FEE (40 US $) is payable by all finalist at the beginning of the year

Master of Science (MSc.PN) (MSc. CMDM) and (MSC.EB)Fee Structure (National)

CUHAS FEE STRUCTURE 2025/26 MSc.PN/MSc. CMDMB/MSc. EB '000'		
Figures in TSh '000	**Year 1**	**Year 2**
A. Payable to University	-	-
Tuition	7,000	6,800
Equipment/ Special Faculty Requirement	200	200
Exam fee	350	350
Sustainability Fund	30	30
TCU Quality Assurance Fee	20	20
Registration	25	25
ID card	10	-
Graduation Congregation Fee	-	70
Caution Money	50	-
Student Union	25	25
Transcript Fee	-	30
Convocation Fees	-	50
Development Levy	100	100
Total Cost to University	**7,810**	**7,700**
B. Payable to Students		
Accommodation	1,200	1,200
Stationery	250	250
Books	600	600
Elective & Research	-	3,000
Dissertation	-	500
Fieldwork	-	-
Meals	9,600	9,600
Total Cost to Student	**11,650**	**15,150**
Grand Total	**19,460**	**22,850**

NB: 1) GRADUATION FEE (70,000/=) is payable by all finalist at the beginning of the year.
NB: 2) There is limited accommodation at CUHAS at a cost of 1,200,000/= Tsh. without utility (electricity and water) charges. Utility can cost up to 500,000/= Tsh. per year.

MPH Fee Structure (National)

CUHAS FEE STRUCTURE 2025/26 MPH '000'		
Figures in TSh '000	**Year 1 - Morning**	**Year 1 -Evening**
A. Payable to University	-	
Tuition	7,900	7,900
Exam fee	450	450
Sustainability Fund	30	30
TCU Quality Assurance Fee	20	20
Registration	25	25
ID card	10	10
Graduation Fee	70	70
Caution Money	50	50
Equipment/ Special Faculty Requirement	200	200
Student Union	25	25
Transcript Fee	30	30
Convocation Fees	50	50
Field Supervision	100	100
Development Levy	100	100
Executive Track Fee		700
Total Cost to University	**9,060**	**9,760**
B. Payable to Students		
Accommodation	1,200	1,200
Stationery	250	250
Books	600	600
Elective & Research	2,500	2,500
Dissertation	500	500
Field/Excursion	600	600
Meals	9,600	9,600
Total Cost to Student	**15,250**	**15,250**
Grand Total	**24,310**	**25,010**

NB: (i) ***Additional fee of 700,000/= is charged for evening programme.***
(ii) There is limited accommodation at CUHAS at a cost of Tsh. 1,200,000/= without utility (electricity and water) charges. Utility can cost up to Tsh. 500,000/= per year.

MPH Fee Structure (Foreign)

Figures in US $	*Year 1*
Payable to the University	
Tuition	4,000
Exam fee	245
Graduation Congregation Fee	40
Field Supervision	100
Sustainability	15
Registration	20
ID card	10
Medical	-
Caution Money	25
Special faculty Requirements	100
Accommodation	800
Convocation Fees	25
Transcript Fees	20
Development Levy	50
Total Cost to University	**5,450**

Payable to the Student	
Student Union	20
Stationery	150
Books	400
Research	1,000
Dissertation	250
Fieldwork	-
Meals/ Stipend	2,700
Total Cost to Student	**4,520**
GRAND TOTAL	**9,970**

PhD Fee Structure

CUHAS FEE STRUCTURE 2025/26 PhD '000'					
Figures in TSh '000	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**
A. Payable to University					
Tuition	**7,400**	**7,200**	**7,200**	**7,200**	**7,200**
Equipment/ Special Faculty Requirement	300	300	300	300	300
Exam fee	500	500	500	500	500
Sustainability Fund	30	30	30	30	30
TCU Quality Assurance Fee	20	20	20	20	20
Registration	40	40	40	40	40
ID card	10				
Graduation Congregation Fee	-	-	70	70	70
Caution Money	100	-	-	-	-
Student Union	25	25	25	25	25
Transcript Fee			30	30	30
Development Levy	100	100	100	100	100
Total Cost to University	**8,525**	**8,215**	**8,365**	**8,365**	**8,365**
B. Payable to Students					
Accommodation	1,200	1,200	1,200	1,200	1,200
Stationery	240	240	240	240	240
Books	750	750	750	750	750
Research/Field	30	30	30	30	30
Dissertation	450	450	450	450	450
Stipend	9,600	9,600	9,600	9,600	9,600
Total Cost to Student	**12,270**	**12,270**	**12,270**	**12,270**	**12,270**
Grand Total	**20,795**	**20,485**	**24,540**	**24,540**	**24,540**

IAHS Fee Structure

FEE STRUCTURE FOR DIPLOMA PROGRAMMES- IAHS (DDR, DMLS& DPS) (NATIONAL)

CUHAS FEE STRUCTURE 2025/26 '000'			
Figures in TSh '000	**Year 1**	**Year 2**	**Year 3**
Payable to University	-	-	-
Tuition	1,950	1,950	1,950
Equipment/ Special Faculty Requirement	150	150	150
Exam fee	240	240	240
Sustainability Fund	30	30	30
NACTE Quality Assurance Fee	20	20	20
Registration	10	10	10
ID card	10	-	-
Graduation Fee			70
Field Supervision	50	50	-
Transcript Fee			30
Convocation Fees			50
Caution Money	50	-	-
Development Levy	100	100	100
Student Union	25	25	25
Total Cost to University	**2,635**	**2,575**	**2,675**
B. Payable to NHIF			
Medical Capitation	50.4	50.4	50.4
C. Payable to Students			
Stationery	50	50	50
Books	150	150	150
Elective & Research	-	-	-
Accommodation IAHS	480	480	480
Fieldwork	420	420	420
Meals	600	600	600
Total Cost to Student	**1,750.4**	**1,750.4**	**1,750.4**
Grand Total	**4,385.4**	**4,325.4**	**4,425.4**

***NB**:*

1) *Limited accommodation is available at BMC at a cost of Tsh.480,000/= per year payable in full or in instalments at the beginning of the academic year.* ***NOTE Payment should be done after consultation with the WARDEN to guarantee the availability of the rooms.***
2) *The University does not provide meals to students, however, there are several cafeterias within the compound for reasonable prices.*
3) *The cost of meals is about Tsh.7,500/= per day*

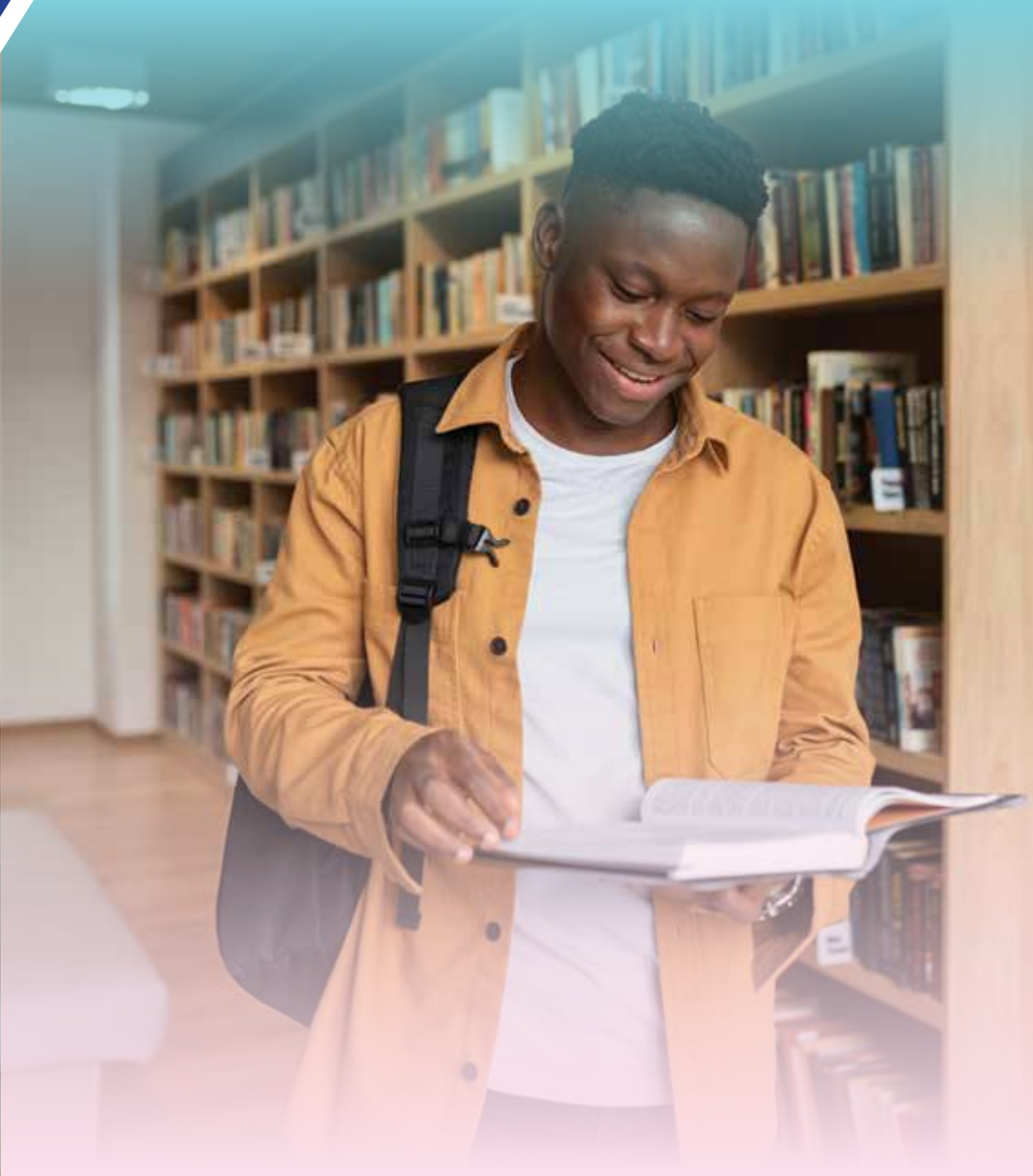
SUPPLEMENTARY EXAMINATION FEES

Candidates appearing for supplementary examinations and retaking a course will be required to pay supplementary fee as shown on the table below:

SN	*Programme*	*Fees per Subject (Tshs)*	*Year Cost per subject (Tshs)*
1	MD1	45,000	600,000.00
2	MD2	30,000	400,000.00
3	MD3	80,000	1,065,000.00
4	MD4	65,000	865,000.00
5	MD5	40,000	530,000.00
6	BMLS 1	30,000	400,000.00
7	BMLS2	40,000	530,000.00
8	BMLS3	40,000	535,000.00
9	BPHARM 1	40,000	535,000.00
10	BPHARM 2	40,000	535,000.00
11	BPHARM 3	55,000	735,000.00
12	BPHARM 4	55,000	735,000.00
13	BSN 1	40,000	535,000.00
14	BSN 2	30,000	400,000.00
15	BSN 3	55,000	735,000.00
16	BSN 4	45,000	600,000.00
17	BSMIR 1	30,000	400,000.00
18	BSMIR2	40,000	530,000.00
19	BSMIR3	40,000	535,000.00
20	DDR1	10,000	135,000.00
21	DDR2	10,000	135,000.00
22	DDR3	15,000	200,000.00
23	DPS1	15,000	200,000.00
24	DPS2	10,000	135,000.00
25	DPS3	10,000	135,000.00
26	DMLS1	15,000	200,000.00
27	DMLS2	10,000	135,000.00
28	DMLS3	10,000	135,000.00
	MMED-INTERNAL MEDICINE		
29	MMed1	160,000	824,000.00
30	MMed2	160,000	894,000.00
31	MMed3	160,000	913,000.00
	MMED-OBYN		
32	MMed1	160,000	741,000.00
33	MMed2	160,000	1,788,000.00
34	MMed3	160,000	1,460,000.00
	MMED-SURGERY		
35	MMed1	160,000	824,000.00
36	MMed2	160,000	894,000.00
37	MMed3	160,000	821,000.00
	MMED-PAEDIATRICS		
38	MMed1	160,000	927,000.00
39	MMed2	160,000	1,022,000.00
40	MMed3	160,000	913,000.00

	MMED-OTHOPEDICS & TRAUMA		
41	MMed1	160,000	741,000.00
42	MMed2	160,000	795,000.00
43	MMed3	160,000	1,825,000.00
	MMED-ANATOMICAL PATHOLOGY		
44	MMed1	160,000	824,000.00
45	MMed2	160,000	1,192,000.00
46	MMed3	160,000	1,217,000.00
	MMED-ENT		
47	MMed1	160,000	674,000.00
48	MMed2	160,000	1,192,000.00
49	MMed3	160,000	913,000.00
	MMED-RADIOLOGY		
50	MMed1	160,000	835,000.00
51	MMed2	160,000	1,065,000.00
52	MMed3	160,000	1,242,000.00
53	MMed4	160,000	1,440,000.00
	MPH		
54	MPH-Morning	215,000	906,000.00
55	MPH-Evening	215,000	976,000.00
	MSC.PN		
56	MSPN 1	150,000	710,000.00
57	MSPN 2	150,000	1,100,000.00
	MSC.CMDMB		
58	MSC.CMDMB 1	150,000	781,000.00
59	MSC.CMDMB 2	150,000	3,850,000.00
	MSC.EB		
60	MSC.EB 1	150,000	977,000.00
61	MSC.EB2	150,000	1,284,000.00

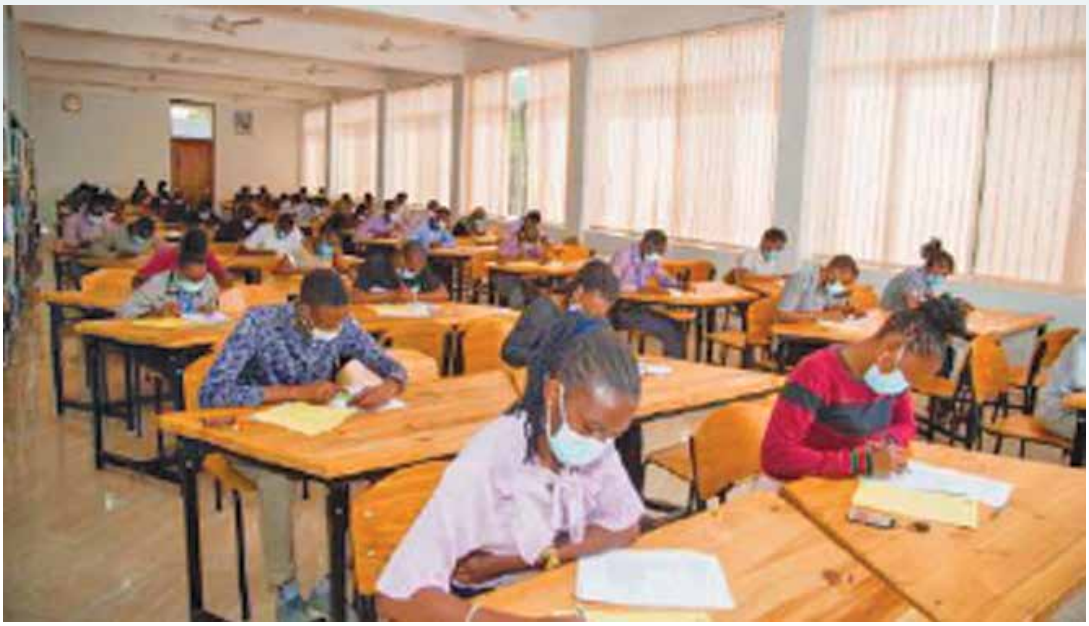
REGISTRATION INFORMATION



REGISTRATION INFORMATION

1. No student shall be allowed to register or attend classes unless the required fees have been paid.
2. New students must register within the first two weeks of the academic year. For purposes of registration a new student must submit originals of documents he/she had submitted as credentials in support of his/her application for admission.
3. Continuing students must complete registration formalities within the first two weeks of the academic year.
4. Any late registration is liable to a penalty of Tsh. 100,000/=.
5. **Students shall be registered under the names appearing in the certificates they submitted for their applications. Once registered, names may not be changed unless legal procedures are followed, and no change of names will be allowed in the final year of study.**
6. Student must register for the course programme into which they have been admitted.
7. No student shall be allowed to postpone studies after the academic year has begun except under special circumstances. Permission to postpone studies and resume studies later shall be considered after the student has produced satisfactory evidence of the reasons for postponement. Special circumstances shall include ill health or serious social problems.
8. No student shall be allowed to postpone studies during the two weeks preceding final examinations, but may for valid reasons be considered by DVC-ARC for postponement of examinations.
9. A student discontinued from a programme/course on academic ground shall not be re-admitted for the same programme/course until two years have elapsed.
10. A student discontinued from studies on disciplinary grounds shall not be re admitted to the University.
11. Students may be allowed to be away from studies for a maximum period of two years in the case of undergraduate programmes and one year for postgraduate students, if they are to be allowed to be re-admitted to the same year of studies where they left off.
12. Students shall commit themselves in writing to abide by the university's Charter, rules and Regulations as from time to time prescribed. A copy of the students' Rules and Regulations shall be made available or adequate notice will be given to students.
13. Students shall be issued identification cards, which they must carry at all times and which shall be produced when demanded by appropriate University officers. The identity card is not transferable and any fraudulent use may result in loss of student privileges or suspension.
14. Loss of the identity card should be reported immediately in writing to the office of Deans of Students, where a new one can be obtained after paying an appropriate fee (currently Tshs10,000/=).
15. A student enrolled for any programme at CUHAS may not enrol concurrently in any other institution. However, students of CUHAS may be allowed to participate in courses offered by any institution leading to professional Certification after consulting the Head of the Department, the Faculty and Senate.
16. Students wishing to transfer to CUHAS will be allowed to do so, as long as they conform to TCU credit transfer guidelines; and will have to spend not less than three quarters of the duration required to complete the specific course.
17. Students with a status of *'delayed special'* will continue to pay Administration fees (for keeping their studentship status) PLUS subject fees as stipulated in Supplementary and Retake table".

EXAMINATION REGULATIONS



EXAMINATION REGULATIONS

GENERAL UNIVERSITY EXAMINATION REGULATIONS

1.1 Form of Examination

The form of examinations shall include written, practical and oral examinations. The weighting of each shall be as determined under School/Departmental specific Examination Regulations approved by the Senate upon recommendation of the School Board.

1.2 Time of Examinations

University Examinations (UEs) shall be conducted at the end of every semester in accordance with the University Regulations. Students must bring their examination cards and identity cards with them to the examination room.

1.3 Registration for Examinations

Bona fide students shall be entitled to sit for the UEs for the courses in which they are registered unless advised otherwise in writing by the DVC-ARC. If a candidate sits for examinations for courses for which he/she is not registered, his/her results in that examination shall be nullified.

1.4 Eligibility for Examinations

1.4.1 No candidate shall be allowed to sit for an examination in any subject if he/she has not completed the requirements of the course by attendance or otherwise as stipulated by the specific School Regulations governing a course of study. If such a candidate enters the examination room and sits for the paper, his/her results in that paper shall be nullified. A student must have been present for at least 85% of the classes to be allowed to sit for ESE in each subject.

1.4.2 Unless otherwise specified a candidate must do CAT for each specified module before the ESE in the respective subject.

1.4.3 A candidate whose course work or progress is considered unsatisfactory may be required by Senate, on recommendation of the appropriate School Board, to withdraw from studies or to repeat any part of the course before admission to an examination.

1.5 Late Assignments and Examinations

Each School is asked to state in the course outline policy concerning acceptance of late assignments and examinations in the course. Normally, such work can be made up only for a good reason (e.g., serious illness, death of the immediate family, etc.). In no case will examinations be given early.

If circumstances warrant, they may be given late, and the student may be charged a grade penalty and/or a late examination fee which will be determined by the University Council.

1.6 Absence from Examinations

Absconding from examination includes not reporting for a scheduled examination at the time, day and place specified without prior permission. It also includes going out of the examination room, temporarily or otherwise without authorization or permission of the

invigilator or one of the invigilators for the examination in question. It also includes staying out of the examination room for a longer period than the one specified by the invigilator or one of the invigilators for the examination in question.

A candidate who absconds a scheduled examination deliberately or without a just reason to be determined by the Senate shall be discontinued from studies. When a just reason is admitted, a written permission will be issued to the affected student allowing him/her to sit at the time of the next supplementary examinations.

1.7 Falling sick immediately before or during Examination

If a candidate falls sick immediately before or during the time of the scheduled examination and is medically unable to proceed (i.e., as certified by the authorized medical officer), he/she will be advised by the School Dean to postpone the examination until an appropriate time to be arranged by respective Department through the School or Institute. Any student who is sick and nevertheless decides to take an examination takes it at his/her own risk and must abide by the results of the examination.

1.8 Reporting late for Examination

1.8.1 A candidate who reports late for an examination (more than 30 minutes) will not be allowed to sit for the examination. His/her case will be referred to the Examination Committee by Chief Invigilator through the University Examination Officer. The Examination Committee will forward recommendation to the Senate.

1.8.2 A candidate without a valid reason shall be regarded as having failed in that examination but will be allowed to do a supplementary examination. And will be awarded a maximum grade of "C".

1.8.3 A candidate with a valid reason will be allowed to sit for a special examination when next offered.

1.9 Dates of Examinations

UE in all Schools/Institutes shall be held at a time to be determined by the Senate, which shall normally be during the last week(s) of a semester, and/or last month of the academic year.

1.10 Supplementary Examination

Candidates who are permitted to take a supplementary examination will be re-examined in the designated subjects at a time to be determined by the School Board. A Pass in supplementary shall be recorded as a minimum passing grade of "C". Examination Regulations from specific programme shall also apply.

1.11 Repeating the year

A candidate may be allowed to repeat a year if she or he has attained a Grade Point Average (GPA) specified by the respective programme curriculum. GPA calculation should base on subject weights. No candidate will be allowed to repeat any year of study more than once.

1.12 Delays in Completing Research Thesis

A student who fails to complete the research thesis by the specified date shall be given an additional time to complete it following the recommendation of School/Directorate. If

the candidate fails to complete the thesis after the additional year, then they shall be required to do a different research provided his/her registration limit will not be exceeded. Examination Regulations from specific programme shall also apply.

1.13 Conduct of Examinations

University Examinations shall be conducted under the control of the DVC-ARC, Deans of Schools, and HODs, or such other officer of the University as the DVC-ARC shall appoint.

1.14 Appointments of Examiners

The examiners for the University Examinations shall be appointed by the Senate or DVC-ARC, upon recommendation of the Schools.

1.15 Board of Examiners

Every University examination shall be conducted by a Board of Examiners, consisting of:

1) One or more external examiners appointed from outside the University by the Senate together with teachers who participated in teaching the candidates in the subjects under examination.
2) Examiners may be appointed from within the University for the supplementary/special examinations under the supervision of a moderator who took no part in teaching the candidates the subjects(s) under examination.

1.16 External Examiners' Honorarium

External Examiners shall receive such honoraria as the Council shall prescribe.

1.17 Examination Irregularities or Academic Dishonesty *(This also applies to Continuous Assessment Tests)*

(1) All cases of examination irregularities on the part of students or invigilators or any member of staff shall be referred to the Examinations Committee through the HOD and the respective School Dean. The Committee shall have power to summon students and members of staff, as it deems necessary. The chairman shall submit a report of its findings and recommendations to the Senate, which shall decide what further action to take.

(2) For avoidance of doubt, examination irregularities shall include, but are not limited to, the following:

(i) A candidate found with unauthorized material/information in any part of the examination process in the premises surrounding the examination room. The premises surrounding the examination room include the examination room, toilets and areas within 20 meters.
(ii) A candidate with written or drawn examination related materials on his or her body, shoes and clothes.
(iii) A candidate copying from another candidate's work.
(iv) A candidate cheating by using or copying from unauthorized material.
(v) A candidate cheating or plagiarizing in research dissertation/thesis or report (e.g. elective field report, case study report, etc.).
(vi) A candidate communicating with another candidate by giving or obtaining unauthorized assistance or attempting to do so.

(vii) A candidate doing or attempting to do an examination on behalf of another candidate.

(viii) A candidate requesting or buying or stealing examination questions from examiners or from the examination office or fellow students or attempting to do so. In clinical examinations, this includes getting to know cases or patients set for examination.

(ix) A candidate colluding with another candidate who is involved in examination irregularities. This includes refusing to disclose the irregularity incident he or she witnessed (e.g., refusing to sign the incidence form).

(x) A candidate refusing to obey a lawful order by an invigilator.

(xi) A candidate or member of staff who behaves or acts in such manner as would disrupt the examination process.

(xii) Submitting or attempting to submit answer sheet(s) or booklet(s) which were not written in the examination room.

(xiii) An invigilator or examiner violating Examination Regulations.

(xiv) Evidence identified by closed circuit television (CCTV)

(3) Any candidate who is found guilty of deliberately involved in examination irregularities or dishonest shall be discontinued from studies.

(4) A member of staff alleged of examination dishonest shall be referred to the University Staff Disciplinary Authority for further measures. Any staff who discloses or cause leakage of examinations shall be terminated from the services of the University and shall in addition thereto be required to make good any loss that may result from such leakage.

(5) In the event of leakage of examination, the University shall nullify the examination results and require candidates to re-sit the examination.

(6) In all cases of examination irregularity, provisions of natural justice as prescribed in rule 85 of the first Schedule of the Charter of Incorporation are to be adhered to.

2 SPECIFIC EXAMINATION REGULATIONS FOR CANDIDATES:

These instructions should be read together with the above University General Examination Regulations.

2.1 Candidates should make sure that they have been issued Examination Numbers before examinations begin.

2.2 Candidate shall be responsible for consulting the final version of Examination Timetables for any changes. Failure to sit examination(s) for a reason of changes in timetable will not be entertained.

2.3 Candidates shall be seated 30 minutes before starting time, and no student shall be allowed into the examination room 30 minutes after the starting time, except for a compelling reason, without prejudice to Regulation to 7.16 below.

2.4 Candidates must not begin writing before they are told to do so by the invigilator.

2.5 Candidates are allowed to carry only pens, pencils or other materials explicitly prescribed by the Department.

2.6 Candidates are not allowed to enter the examination room, with books, cellular or mobile phone, handbags, clipboards, purses, papers, magazines, radios, radio cassette or other types of cassette players, digital watches, computers, soft and any other material as may be specified from time to time by the DVC-ARC.

2.7 In case candidates are allowed to come with specified items into the examination room, no borrowing from one another shall be allowed during the examinations except with invigilator's permission. Items allowed into the examination room shall be liable to inspection by the invigilator.

2.7.1 No food shall be allowed into the examination room, except soft drinks not exceeding 500 mls.

2.8 Each answer in an examination shall begin on a fresh page of the examination booklet. All rough work must be done in the booklet and crossed out. Candidates are not allowed to sign their names anywhere in the examination booklets.

2.9 All candidates shall observe silence in the examination room.

2.10 Invigilators shall have power to specify or change the sitting arrangement in the examination room, or to require inspection of a candidate, or to confiscate an unauthorized material brought into the examination room, and shall have power to expel and report from the examination room any candidate who creates disturbance and record the incident to the examination office and HOD.

2.11 In case of alleged cheating, the candidate and one or more invigilators shall be required to sign an examination incident form which, together with other signed exhibits, as the case may be, and the candidate's examination booklet, shall be submitted to the HOD.

2.12 A candidate caught contravening the Examination Regulations shall not be allowed to continue with the examination for which he/she is scheduled.

2.13 Candidates are strongly warned that cheating or being caught with unauthorized material contravenes the University General Examination Regulations and leads to discontinuation from studies.

2.14 All candidates shall sign the attendance form at the beginning and the submission form at the end of every examination.

2.15 No candidate will be permitted to enter the examination room after a lapse of thirty minutes from the commencement of the examination and no candidate will be allowed to leave his/her place during the examination, except as indicated below (7.16).

2.16 A candidate wishing to use the toilets may, by permission of the invigilator and under escort, leave the examination room for a reasonable period.

2.17 A candidate who walks out of an examination in protest shall be disqualified from that examination.

2.18 At the end of the examination period, and on instruction from the invigilator, candidates must stop writing and assemble their scripts, which they should personally hand to the invigilator. They shall remain seated until all are allowed by the invigilator to leave.

2.19 Candidates are not allowed to take any examination material out of the examination room, unless specifically permitted by the invigilator of the respective examination. (This also applies to CATs)

2.20 Detailed instructions on the question papers should be followed.

2.21 Students who are required to do supplementary examinations or special examinations will be officially notified using their respective Examination Number on the University's notice board and website www.bugando.ac.tz or through any public means of communication. Students should also leave their latest contacts such as telephone numbers or e-mails to facilitate communication.

2.22 Students must understand that the ultimate responsibility for taking the supplementary examination precisely at the time when they are given rests with the student.

3 GUIDANCE FOR INVIGILATORS

3.1 Introduction

3.1.1 Invigilation of UEs shall be done by academic staff of the University or any other staff who have been appointed by DVC-ARC

3.2 Before the Examination

3.2.1 The University Examination Officer shall prepare an invigilation roster that shall be communicated to all academic staff indicating the name of Chief Invigilator and other invigilators for each venue. The roster shall also indicate time, date and venues for the UEs.

3.2.2 Each examination venue shall have reasonable number of invigilators depending on the number of candidates and the size of the room.

3.2.3 Chief Invigilators shall be personally responsible for the collection of the sealed envelopes containing examination papers and any other prescribed materials from the examination office, at least an hour before the time stipulated for commencement of the examination. Simultaneously, other invigilators shall collect answer booklets from a

designated room and shall sign a special form according to the instructions. Invigilators shall sign again on returning the booklets at the end of the examination.

3.2.4 Invigilators collecting examination papers and answer booklets shall sign in a prescribed form indicating the time when examination papers and answer booklets are collected. Invigilators shall sign again on returning the question papers and answer booklets. The special form for signing shall be available at the examination office and invigilators may also be required to sign while in the examination rooms according to instructions or directives given.

3.2.5 All invigilators shall be present in the examination room at least 30 minutes before the time for commencement of the examination.

3.2.6 Invigilators shall place the question papers facing downwards on the desks as per seating plan and before the candidates enter the examination room.

3.2.7 Invigilators should ensure that only one answer booklet is provided to each candidate and an extra sheet(s) may be provided when the booklet is full.

3.2.8 Invigilators shall admit candidates to the examination room at least fifteen (15**)** minutes before the start of the examination and ensure that they take their correct seat.

3.2.9 Invigilators shall ensure that candidates enter the examination room by lining up (queue).

3.2.10 Invigilator should not admit candidates to the examination room after 30 minutes have elapsed since the start of the examination. Candidates shall not be allowed to leave the examination room during the first hour of writing the examination.

3.2.11 **Invigilators shall ensure that candidates: -**

(a) Do not borrow materials/working tools while in the examination room.

(b) Sit according to the scheduled seating plan and there is reasonable distance from one desk/table to another.

(c) Sign the attendance register. It shall be the duty of invigilators to circulate attendance sheet where all candidates present in the examination room shall indicate their names, registration number and the serial number of the Booklet. Circulation of the attendance sheet shall be made within thirty (30) minutes from commencement of examination.

(d) Hand over the answer booklets as directed and sign a submission form.

3.2.12 **Before the start of the examination, the Chief Invigilator shall: -**

(a) Announce that unauthorised materials are not allowed in the examination room and remove unauthorised materials from the examination room (if any).

(b) Announce that candidates should turn the paper and check if they have the correct paper.

(c) Inform students to seriously follow the instructions on the front page of the examination paper and the answer booklet.

(d) Announce that candidates should not open the question paper until instructed to do so. Candidates will usually be given five (5) minutes to go through the paper and note any issue that might require special attention from the course instructor/examiner.

(e) Announce that candidates should enter specific information into fields provided in answer booklets/sheets before being instructed to start answering examination questions.
(f) Inform students the time for commencing and finishing the examination.
(g) Inform students the time when they can be allowed to leave the examination room after completing the examination.
(h) Announce that candidates with questions including ones that should be addressed by course instructor or invigilator should raise their hands and wait until invigilators reach them.
(i) Announce that candidates shall abstain from cheating.
(j) Announce that no candidate can leave the examination room 30 minutes before the end of the examination.

3.3 **During the Examination**

3.3.1 **Invigilators** shall not leave the examination room without a replacement. Replacement should not be the use of other invigilators in the same room.

3.3.2 Invigilators shall not allow any candidate to leave the examination within one hour from the beginning of examination.

3.3.3 Invigilators shall have the power to specify or change seating arrangements in the examination room, or to require inspection of a candidate, or to confiscate any unauthorised material and shall have power to expel from the examination room any candidate infringing any regulation stipulated herein or who creates a disturbance within the examination room.

3.3.4 In the event of alleged examination irregularity, the invigilator shall require the candidate to sign an examination incident report and any other materials pertinent to the incident and confirm they are his/hers. A witness (preferably a nearby student) should also sign the incidence form. The invigilator will collect all candidate material and the candidate should leave the examination room.

3.3.5 Invigilators should use examination incident forms to report each incident including student illness or examination irregularity.

3.3.6 Invigilators shall report immediately to the examination office any candidate who contravenes these regulations.

3.3.7 Five (5) minutes before the end of the examination, the invigilator should announce that 'you have five minutes left until the end of examination'.

3.4 **At the End of Examination**

3.4.1 Invigilators shall not permit the candidates to leave their places before their scripts have been collected.

3.4.2 Invigilators shall tell the candidates to stop writing and assemble their examination scripts.

3.4.3 Invigilators shall enter the number of candidates' scripts collected and/or received on the examination submission sheet and sign it.

3.4.4 Invigilators shall return all examination scripts to the examination office immediately after the examination.

3.4.5 Invigilators who will fail to appear for invigilation at the time indicated in the invigilation roster without good cause shall be deemed to have absconded and will be liable for disciplinary action.

3.4.6 Invigilators are not allowed to eat or drink substances other than water or soft drinks and should not engage in any distractive activities such as (but not limited to) marking papers, reading, mobile phone chatting, listening to music and unnecessary announcements.

4 COMMON ACADEMIC REGULATIONS

4.1 Introduction

The common academic regulations cover Appeals, Grading System, Certificates and Transcripts, Carry over Courses, and Graduation Requirements.

4.2 Appeals against Academic Decisions

4.2.1 Well-grounded appeals, supported with substantive and documented evidence against any academic decision or recommendation, shall first be lodged with the appellant's School Dean, who shall forward it to the Senate with the School Board's observations and recommendations. The appeal by the student should be submitted within seven (7) days from the day the results were posted, or a decision was communicated to the affected student. The decision of Senate shall be final.

4.2.2 In case of examinations scores and grades, the Board of Examiner's recommendation shall be final except where well-authenticated claim for unfair marking or disregard for Examination Regulations is raised by the affected student. In such a case, findings and observations should be forwarded to the Examinations Committee for detailed discussion. The Examinations Committee makes recommendation to the Senate, whose decision shall be final.

4.2.3 A student who is dissatisfied with a grade obtained in a particular examination may apply for remarking of the examination paper to the HOD in which the course was offered. The application should be made not less than one week after the release of the examination grades by the DVC-ARC or the individual instructor. A valid justification for the request must be given in writing. The HOD and members of the faculty will then review the case to see if remarking is warranted. An examiner other than the one who initially marked the script will remark the paper. The grade after remarking the paper will be final regardless of whether it is lower or the same as the first grade. The student may not request for a second remarking of the same script. The grade will be communicated to the student by the DVC-ARC or the HOD.

4.2.4 No appeal whatsoever pertaining to the conduct of any University Examinations and the marking of the scripts thereof shall be entertained unless such an appeal is lodged with the appropriate University authorities within seven days of the date of publication of the results by or under the authority of the Senate.

4.2.5 All appeals regarding semester examination should be accompanied by a fee of ten thousand shillings (10,000 Tsh) for Diploma students, and of twenty thousand shillings (20,000 Tsh) for undergraduate and postgraduate students. The fee is non-refundable.

4.3 Grading System

As appears under the specific regulations for each programme

4.4 Publication of Examination Results

4.4.1 The Dean/Directors may, after the School Board meeting, publish the examination results provisionally subject to confirmation of the results by the Senate upon the recommendation of the School Board.

4.4.2 Publication and custody of the final approved examination results as approved by the Senate shall be the responsibility of the DVC-ARC.

4.5 Withholding or Cancellation of Results

4.5.1 The Senate may, where a candidate has failed to fulfil a fundamental contractual or legal obligation with CUHAS or a breach of the same e.g., not paying fees or outstanding dues or where is dishonesty or fraud, bar him or her from doing examination or withhold examination results until he/she discharges the obligation or is exonerated from the wrong.

4.5.2 The Senate may cancel results of student(s) where there is evidence of fraud or examination leakage.

4.6 Graduation

With the approval of the Senate, students who complete and fulfil the requirements of the programme will graduate on the day determined by the Senate. Graduation attire will be hired for three days at fifty thousand shillings (50,000 Tsh) for degree and for diploma graduands. Any late return of the graduation attire shall be charged at ten thousand shillings (10,000 Tsh) a day.

4.7 Certificates and Academic Transcripts

Persons applying to the DVC-ARC for academic transcript shall be charged a fee of twenty thousand shillings (30,000 Tsh). A dully completed clearance form and original transcript fee receipt must be submitted along with a passport size photograph for preparation of transcripts.

4.8 Loss of Certificates

The University may issue another copy in case of loss or destruction of the original certificated on condition that:

1) The applicant produces a sworn affidavit testifying to the loss or destruction.
2) The applicant must produce evidence that the loss has been adequately publicly announced.
3) The replacement certificate will not be issued until 12 months from the date of loss.
4) A fee of fifty thousand shillings (50,000 Tsh) shall be charged for the copy of the certificate issued.

4.9 Carry over courses

Carryover of a failed course into a subsequent year shall imply repeating the failed course in the subsequent year by fulfilling all the requirements of the course. Carryover of elective courses will be allowed only in exceptional circumstances, normally only when those units are needed to comply with regulations. All carried over courses shall be cleared within the allowable maximum period of registration, otherwise, the student

is discontinued from studies. The maximum period of registration is as specified under the specific programmes.

5 SPECIFIC EXAMINATION REGULATIONS FOR MASTER PROGRAMMES

(The General University Examination Regulations (6.0) in the Examinations Guidelines and Regulations Book also apply)

5.1 The Master degree programmes offered at CUHAS are by course work and dissertation. Evaluation of candidates will include course work, and clinical assessment, dissertation and viva voce defence of the dissertation.

5.2 During each semester, there will be at least two continuous assessment tests and an end of semester examination consisting of a written paper and clinical/practical examination.

5.3 The mode and manner of the clinical examination will be determined by the departments concerned, vetted by the respective School Boards and Higher Degree Committee prior to be approved by the Senate.

5.4 The continuous assessment tests will constitute 50% of the end of semester examination grade.

5.5 Written component shall carry 40% of the marks, and the clinical/practical component shall carry 60% of the total mark for continuous assessment tests and the end-of semester university examinations.

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

Numeric Mark	Letter Grade	GPA
75 – 100	**A**	***4.4 – 5.0***
70-74	**B+**	***3.5 – 4.3***
60-69	**B**	***2.7 – 3.4***
50-59	**C**	***2.0 – 2.6***
45-49	**D**	***1.5 – 1.9***
44 and below	**E**	***0.0 – 1.4***

The PASS mark shall be B grade

5.7 **Disposal of students**

5.7.1 **Biomedical subjects**

1) A candidate who fails in one or more subjects with an overall GPA of 2.0 and above will be required to sit for supplementary examination after the end of the Semester 2.
2) A candidate who fails in one or more subjects with a GPA of less than 2.0 will be required to re-take the respective subject(s) in the semester(s) when they are next offered.
3) A candidate who fails the supplementary examination will stop proceeding with other subject(s) and re-take the failed subject(s) in the semester when the respective subject is next offered.
4) A candidate who fails examination after re-retaking the subject(s) will be discontinued from the course.

5.7.2 **Clinical subjects**

1) A candidate who fails any clinical subject will sit for supplementary examination after rotating for a minimum of 4 weeks and maximum of 12 weeks.
2) A candidate who fails three or more subjects will stop proceeding with other subject(s) and re-take the respective subjects in the semester(s) when the subjects are next offered.
3) A candidate who fails the supplementary examination(s) shall be allowed to sit for 2nd supplementary examination(s) after rotating for a minimum of 4 additional weeks and maximum of 12 additional weeks.
4) A candidate who fails the 2nd supplementary examination(s) will be required to re-take the subject(s) while stop all other subjects in the respective semester and concentrate on the failed subject(s) in a semester when the subject is next offered.
5) A candidate who fails examination after re-retaking the subject(s) will be discontinued from the course.
6) The highest grade a candidate can obtain after a supplementary examination or after re-taking the subject(s) on academic grounds shall be a 60% ("B") in the respective subject(s).
7) The exact duration for supplementary clinical rotation will be discussed and agreed in the Department Meeting based on the content of the respective subject and the strength/weakness of a supplementing student. The proceedings/minutes from the meeting MUST be submitted to the respective School Board and to the Higher Degree Committee (in that order) for vetting prior to be submitted to the Senate for approval.
8) Any corrections of the dissertations will have to be done within the stipulated timeframe as indicated in the "*Dissertation and Thesis Scoring and Grading Guidelines.*" An error free dissertation must be submitted before a candidate is awarded the degree.

WEILL BUGANDO SCHOOL OF MEDICINE (WBSOM)

Dr. Haruna Dika, Dean
MD (UDSM), MSc. (Makerere), PhD (Calgary)

The Weill Bugando School of Medicine (WBSoM) was the first School envisaged and established by the Tanzania Episcopal Conference (TEC) at Bugando. The WBSoM offers programmes upon which hinges the Mission of the University in its quest to enable Tanzania to produce enough doctors and other health professionals to achieve a satisfactory level of "Health for All" in the foreseeable future. These programmes are Doctor of Medicine (MD), Bachelor of Medical Laboratory Sciences (BMLS), Bachelor of Science in Medical Imaging and Radiotherapy (BSc. MIR), Master of Science in Clinical Microbiology and Diagnostic Molecular Biology (MSc. CMDMB), Master of Medicine (MMed) programmes [Anatomical Pathology, Internal Medicine, Paediatrics and Child Health, Obstetrics and Gynaecology, Orthopaedics and trauma, General Surgery, Radiology and Ear Nose and Throat (ENT)] and Doctor of Philosophy (PhD).

VISION

To become an outstanding School excelling in health care, training and research and responsive to societal needs.

MISSION

1. To provide skilled and competent human resources in the health sector that is vested with moral and ethical values
2. Search, discover and communicate the truth to advance the frontiers of knowledge.
3. Provide quality services to the community.

DOCTOR OF MEDICINE (MD)

DOCTOR OF MEDICINE

BACKGROUND

The MD training programme is the most pivotal upon which hinges the Mission of the University in its quest to enable Tanzania to produce enough doctors and other health professionals to achieve a satisfactory level of "Health for All" in the foreseeable future. As it is the current trend in other Medical Universities in Tanzania and elsewhere to semesterize and modularize all academic programmes, CUHAS - Bugando has adopted a similar model for its programmes.

Weill Bugando School of Medicine is the first of several Schools and Institutes that were envisaged under the BUCHS project which the Tanzania Episcopal Conference (TEC) conceived in 1994.

1.0 OBJECTIVES

The objective of the University, as regards the MD Course, is to train competent general duty Medical Officers who after the appropriate period of internship can, without supervision, render adequate medical care both to the individual patient and to the community in differing situations.

The graduate therefore should be able to:

- Administer the health services of a district, and train, organize and direct the health team of medical and paramedical personnel in a district, in a hospital and in a health centre.
- Conduct his/her activities so that they are relevant to the community by understanding the significant social, political, economic, psychological and ecological factors of the community.
- Identify and solve the major health problems of the community under his/her care, according to the national and community priorities by organizing and providing preventive and curative community health services.
- Organize and provide routine and emergency, preventive and curative medical care for the individual by:
    - Knowing the normal structure, function, development and growth of the human body and personality.
    - Recognizing disorders and abnormalities of structure, function, development and growth of the human body and personality
    - Examining patients both clinically and with the relevant investigative procedures.
    - Evaluating the results of the examination and investigations and reaching an appropriate diagnosis.
    - Administering to the patients the appropriate medical/paediatric/surgical/mental health/gynaecological and obstetric care and treatment.

- Training and directing the health team in all of the above as required.
- Accept the responsibility of continuing his/her professional education, in order to utilize advances in medical science and to benefit from further postgraduate training provided in Tanzania or elsewhere.
- Recognize the limit of his/her competence and refer such issues to higher levels.

SUMMARY OF THE MD COURSES FOR THE SEMESTER SYSTEM

Semester 1 Year 1								
Code	Course name	LH	TS	AH	IS	PH	TH	Credits
BM100	Basics of Clinical & Community Medicine	17	8	0	0	9	34	3.4
AN100	Anatomy	85	17	19	43	153	317	31.7
BC100	Biochemistry	85	34	28	38	51	236	23.6
EP100	Introduction to Professionalism & Ethics	17	9	4	4	0	34	3.4
Total		**204**	**68**	**51**	**85**	**213**	**621**	**62.1**
Semester 2 Year 1								
Code	Course name	LH	TS	AH	IS	PH	TH	Credits
NA100	Neuroanatomy	17	17	11	11	34	90	9.0
HS100	Health Sociology	34	17	4	5	0	60	6.0
HP100	Health Psychology	34	17	7	7	0	65	6.5
PH100	Medical Physiology	119	34	34	52	51	290	29.0
IC100	ICT and Communication skills	17	17	17	6	51	108	10.8
Total		**221**	**102**	**73**	**81**	**136**	**613**	**61.3**
Semester 3 Year 2								
Code	Course name	LH	TS	AH	IS	PH	TH	Credits
MI200	Microbiology & Immunology	85	17	10	14	68	194	19.4
PE200	Parasitology & Medical Entomology	51	17	10	7	34	119	11.9
BE200	Biostatistics & Epidemiology	85	34	34	18	34	205	20.5
DS200	Development Studies	34	17	14	25	0	90	9.0
Total		**255**	**85**	**68**	**64**	**136**	**608**	**60.8**
Semester 4 Year 2								
Code	Course name	LH	TS	AH	IS	PH	TH	Credits
CM200	Introduction to Community Medicine	17	17	2	4	30	70	7.0
CP200	Clinical Pharmacology	102	34	17	11	34	198	19.8
PA200	Pathology	153	34	26	44	85	342	34.2
Total		**272**	**85**	**45**	**59**	**149**	**610**	**61.0**
Semester 5 Year 3								
Code	Course name	LH	TS	AH	IS	PH	TH	Credits
EP300	Professionalism & Ethics	34	9	6	7	12	68	6.8
MD300	Management of diseases	204	34	24	31	51	344	34.4
DI300	Diagnostic Imaging	17	17	22	15	51	122	12.2
LM300	Leadership & Management	17	8	6	5	34	70	7.0
Total		**68**	**58**	**54**	**152**	**272**	**604**	**60.4**
***Semester 6 Year 3 & Semester 7 Year 4**								
Code	Course name	LH	TS	AH	IS	PH	TH	Credits
GS400	General Surgery	20	50	20	45	180	315	32.5
OG400	Obstetrics and Gynaecology	20	50	20	45	180	315	32.5
PC400	Paediatrics and Child Health	20	50	20	45	180	315	32.5
IM400	Internal Medicine	20	50	20	45	180	315	32.5
Total		**80**	**200**	**80**	**180**	**720**	**1260**	**126.0**

****Semester 8 Year 4 & Semester 9 Year 5**								
Code	Course name	LH	TS	AH	IS	PH	TH	Credits
RP500	Research Field Project	0	0	0	35	245	280	28.0
CM500	Community Medicine	64	48	28	35	105	280	28.0
PS500	Psychiatry	48	32	12	8	180	280	28.0
SS500	Surgical Subspecialties	64	16	16	28	156	280	28.0
MS500	Medical Sub-specialities and Emergency Medicine	64	32	16	12	156	280	28.0
TOTAL		**240**	**128**	**72**	**118**	**842**	**1400**	**140.0**
*****Semester 10 Year 5**								
Code	Course name	LH	TS	AH	IS	PH	TH	Credits
GS500	Advanced General Surgery	4	20	10	12	94	140	14.0
OG500	Advanced Obstetrics and Gynaecology	4	20	10	12	94	140	14.0
PC500	Advanced Paediatrics and Child Health	4	20	10	12	94	140	14.0
IM500	Advanced Internal Medicine	4	20	10	12	94	140	14.0
EN500	Entrepreneurship	17	6	2	4	5	34	3.4
Total		**33**	**86**	**42**	**52**	**381**	**594**	**59.4**
		LH	TS	AH	IS	PH	TH	Credits
Grand Total		1592	821	496	679	2731	**6310**	**631.0**

KEY:
LH - Lecture hours,
TS - Tutorial/Seminar hours,
AH - Assignment hours,
IS - Independent studies,
PH - Practical hours,
TH - Total hours
*Students will be rotating for 10 weeks each of the four departments.
**Students will be rotating 8 weeks in each department.
***Students will be rotating 4 weeks in each department.
1 Credit = 10 notional hours

CLINICAL CLERKSHIP GUIDELINES

INTRODUCTION

The University places a lot of importance to this stage of training of the medical student because it lies at the heart of medical education. In the new curriculum the University has strived to give the student as much clinical exposure as possible. It is designed to provide the medical student with an opportunity to learn by experience in patient care and by the examples set by the faculty and house staff. It will be focused on real problems in the context of professional practice. It is expected that the students will be motivated by its relevance and through active participation. We believe it is the only setting in which the skills of history taking, physical examination, clinical reasoning, decision making, empathy, and professionalism can be taught and learnt as an integrated whole.

Weill Bugando School of Medicine (WBSoM) has now split clinical teaching into a 10-week junior clerkship and a 5-week senior clerkship. The students will be divided into four groups of equal size and shall have rotations in Medicine, Surgery, Paediatrics and Child Health and in Obstetrics and Gynaecology for their junior clerkship in semester 6 and 7 and their clerkship in surgical specialties (Anaesthesiology, Otorhinolaryngology and Ophthalmology), Community Medicine, Psychiatry and Forensic Medicine in semesters 8 and 9. The senior rotation will take place in the 10th semester.

During the 10 weeks of clerkship, the student will be expected to take a complete history, conduct a thorough and accurate physical exam, take into consideration complex psycho-social issues, formulate a problem list, construct a relevant differential diagnosis, and along with her/his team begin to manage the daily details of the care of patients.

During the 5 weeks of senior clerkship the student will learn how to take a more focused history and physical, manage chronic conditions and symptoms, and develop a more detailed approach and knowledge base regarding two specialty areas of her/his choice.

GOALS

- To develop the skills and knowledge needed to take an accurate history and physical examination and to formulate an appropriate differential diagnosis;
- To introduce the student to the principles of developing a management/treatment plan for various diagnosis;
- To encourage the student to take an active role as a member of the health care team, to learn to be responsible for patient management, to learn to work effectively with other members of the health care team and to develop skills as a professional.

CLERKSHIP GUIDELINES

The following will constitute general guidelines and an outline of what is expected of a student, and what the student should expect from teachers during their inpatient clerkship rotations. Although minor variations may exist from firm to firm and from discipline to discipline the basic format will apply to all.

Clinical clerks are expected to:

1. Perform an admission history and physical examination on at least five patients per week. For each patient the student will:
    a. Limit initial formal contact with patient to one hour.
    b. Submit for review within 24 hours a detailed write-up of the history physical findings, admission lab results, a formulation, and a plan of management.
    c. Read suggested information relevant to a major aspect of the patient's illness.
    d. Follow closely the patient's daily progress, and report on this progress during ward rounds.
    e. Assist interns with routine chores (data-gathering, etc.) necessary for the care of the patient.
2. Demonstrate to the consultant (during twice-weekly "students only" sessions) their level of skill in eliciting historical information and physical findings.
3. Observe and assist with special procedures such as bladder catheterization, Nasal Gastric tube insertions, bone marrow aspirations, lumbar punctures, venepunture, etc.
4. Present cases during attending rounds.

The Consultant/Attending Specialist is expected to:

1. Meet separately with the clinical clerks at least twice each week. During these sessions the consultant will directly supervise and observe the ability of clerks to take histories and to elicit and demonstrate physical findings.
2. Participate actively with the resident in the process of reviewing and criticizing student write-ups and being certain that write-ups are returned to the student within 24-48 hours.
3. Suggest reading material relevant to the student's cases.
4. Observe closely and improve the interactions between house staff and clinical clerks.
5. Discuss the student's progress and level of performance (personally) after two weeks and again at the end of the rotation.
6. Observe the student do a comprehensive history and physical on an unknown patient the last week of the rotation.

The ward resident is expected to:

1. Assign new cases to the clinical clerks. In making these assignments the resident will:
    a. select those cases most suitable for advancing the medical education of the student
    b. be certain that an appropriate one-hour interval is set aside for the admission contact between patient and student.
2. Assign specific reading directly relevant to each patient worked up by the student
3. Review student write-ups with the attending physician. Discuss these with the student within 24-48 hours of submission.
4. Closely supervise and improve interactions between clinical clerks and interns.
5. Determine when each clinical clerk is qualified to:
    a. present progress data during ward rounds
    b. present cases during attending rounds

c. write progress notes in the medical record

6. Discuss with each student (personally) that student's level of performance at two weeks intervals.

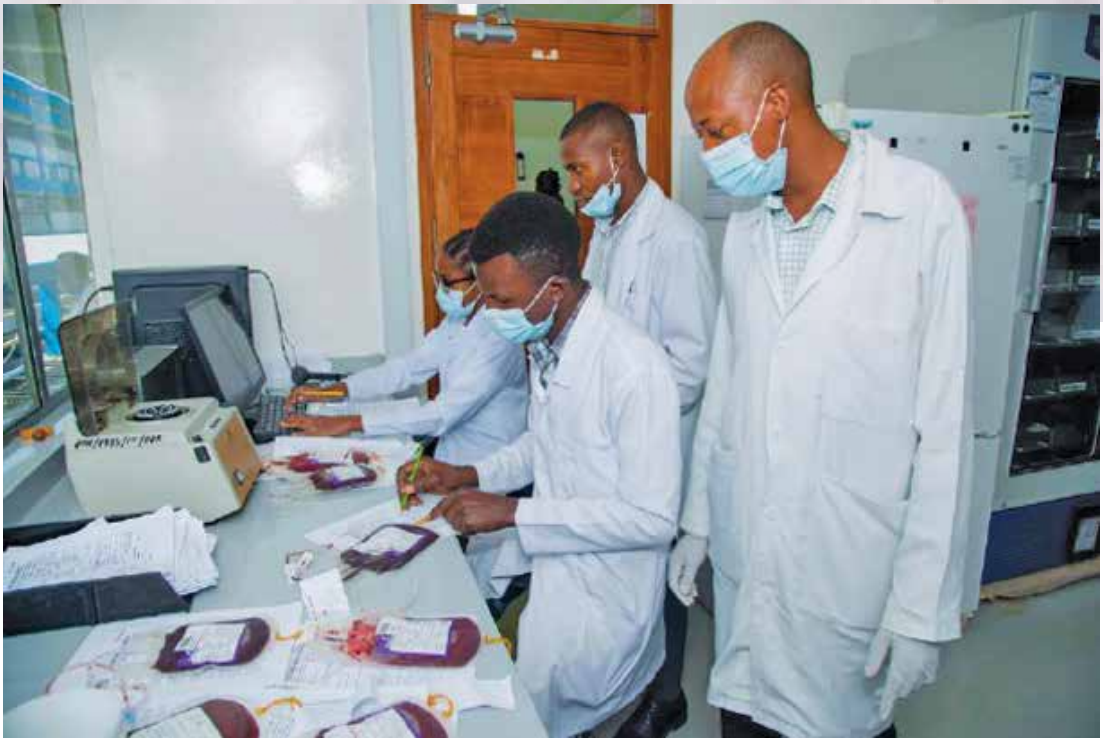
The intern is expected to:

1. Discuss with the student (personally), after the student has completed a formulation and plan of management, all aspects of the case assigned to the student.
2. Review with the student the orders written by the intern and the reasons for those orders.
3. Supervise directly "bedside" lab procedures (blood gas, cultures, etc.) performed by the student.
4. Keep the clinical clerk fully informed of all developments in that clerk's cases.
5. Review with the clerk progress notes written by the clerk and countersign these notes.

RESPONSIBILITIES FOR THE CLERK

- To be punctual to all rounds and lectures and other teaching opportunities;
- Perform a history and physical examination on new admissions assigned by the resident team;
- Assist the resident team in simple procedures and become familiar with these procedures;
- Present patients at Work and Attending Rounds. To have read thoroughly on these patients prior to presentation;
- Submit write-ups for patients using the format requested by the specialty to the coordinator for formal evaluation;
- Be up to date and familiar with the patients' pertinent development and write daily progress notes. Progress notes must be discussed with and countersigned by the assigned intern or resident;
- Accompany patients to special procedures and participate in discussions with consultants whenever possible;
- Read daily for conferences, assigned topics or presentations and especially patients' medical problems;
- Attend all assigned conferences given by the Department, including Medical Grand Rounds, house staff lectures, as well as specific conferences for clerks.

BACHELOR OF MEDICAL LABORATORY SCIENCES (BMLS)



BACHELOR OF MEDICAL LABORATORY SCIENCES

BACKGROUND

Clinical laboratory professionals play a pivotal role in the provision of health services in any health facility setting. They are an essential component of members of the health care team; uncovering scientific facts leading to accurate diagnosis and timely treatment of patients. Physicians therefore rely heavily on the clinical laboratory data provided by medical technologists to determine the presence or absence, cause, extent and prognosis of disease. Students of clinical laboratory science should develop the analytical thinking skills necessary to function effectively in a clinical laboratory environment. Unless medical technologists can produce reliable diagnostic data reflective management of patient becomes severely compromised. This service has hitherto been provided largely by Health Laboratory Technicians who undergo a three-year training programme after "O" level. With advances in scientific and medical technology it is increasingly becoming difficult for the bulk of available health laboratory technologist to keep pace with advances in medical technology. The Bachelor of Science in Medical Laboratory Sciences (BMLS) is meant to provide an undergraduate education to those preparing to enter the field of Medical laboratory science in this era. Graduates of this programme will fill the growing skills-gap in clinical practice settings of hospital diagnostic laboratories, biomedical research laboratories, public health agencies, clinics, and reference laboratories.

Career options also exist outside the traditional clinical laboratory. Graduates with backgrounds in clinical laboratory science occupy positions as medical research and development technologists, technical representatives for medical product and medical equipment companies, and other bio-medically related positions in the biotechnology industry. The Bachelor of Medical Laboratory Sciences (BMLS) is designed to provide a broadly-based background including biomedical sciences and laboratory science course requirements.

The degree program in Medical Science is also an excellent foundation for students preparing for graduate studies in a sub-discipline or another health-related area or for pre-professional training in one of the medical sciences. Starting this programme fits in well with Mission of the University in its quest to enable Tanzania produce enough medical practitioners and medical scientists, who are expected to work together to achieve a satisfactory level of "**Health for All**" in the foreseeable future.

PROGRAMME GOALS

The BMLS programme is intended to achieve the following goals:

- To produce a Laboratory technologist with sound knowledge and skills for diagnosis, monitoring and research in medical field.
- To produce technologists with high calibre in implementing and promoting quality services in medical laboratories.
- To produce medical technologists with highest analytical ability, with concerns for ethical and moral values.
- To produce a Laboratory technologist who can translate the national health laboratory policies into Programme, planning and management activities.

PROGRAMME OBJECTIVES

Broad Objective

To produce a competent Medical technologist who will be able to perform tests and manage a medical laboratory with minimal supervision.

Specific Objectives

Upon successfully completion of this programme the graduate will be able to:

- Apply the principles and clinical significances of advanced tests;
- Use his/her critical thinking to improve the laboratory-working environment.
- Improve the quality of laboratory services rendered to the society by applying the latest knowledge.
- Recognize and adhere to established safety rules
- Recognize factors that affect procedures and results, and take appropriate action.
- Recognize the relationship between laboratory finding and disease processes.
- Design and conduct medical research

Programme Expected Learning Outcomes and its associated teaching /learning activities and assessment criteria:

Qualification category		**Undergraduate**	
Qualification type		**Bachelor's degree**	
Levels		**8**	
Learning outcomes	**Knowledge**	Comprehend sound knowledge regarding medical laboratory sciences	**Assessment criteria** Written (MCQs, short answer and essay questions) and oral Examinations
	Skills	Perform clinical diagnostic tests, Analyze medical laboratory services for planning and management activities Promote quality services in medical laboratories	Practical examinations, case scenarios and assessment using logbooks
	Competences	Perform clinical diagnostic tests both in hospital and in the research field	Practical examinations, case scenarios and assessment using logbooks

ORGANIZATION OF THE PROGRAMME

This is a six-semester modularized academic programme that will be covered in three years. Courses in each semester will be taught by lecturers, practicals and tutorials and examined during the semester. There will be a special research project in one of the medical field. CUHAS has established a well set up and managed Computing Centre, linked to the Internet, which will provide "Student Centred Learning" (SCL). This will complement the more conventional BMLS Curriculum Teaching and Learning methods.

With the above design and methods of teaching, the course will carter for specific knowledge, skills and competencies. It will also give students expanded access to different categories of clients, programmes and medical researches that are based on the societal needs and demands.

A course unit weighting system will be used, whereby each 15 hours of lecture, constitutes a unit, while 45 hours of practical/seminars constitute a unit. Final University examinations will be held at the end of each semester where external examiners will be invited.

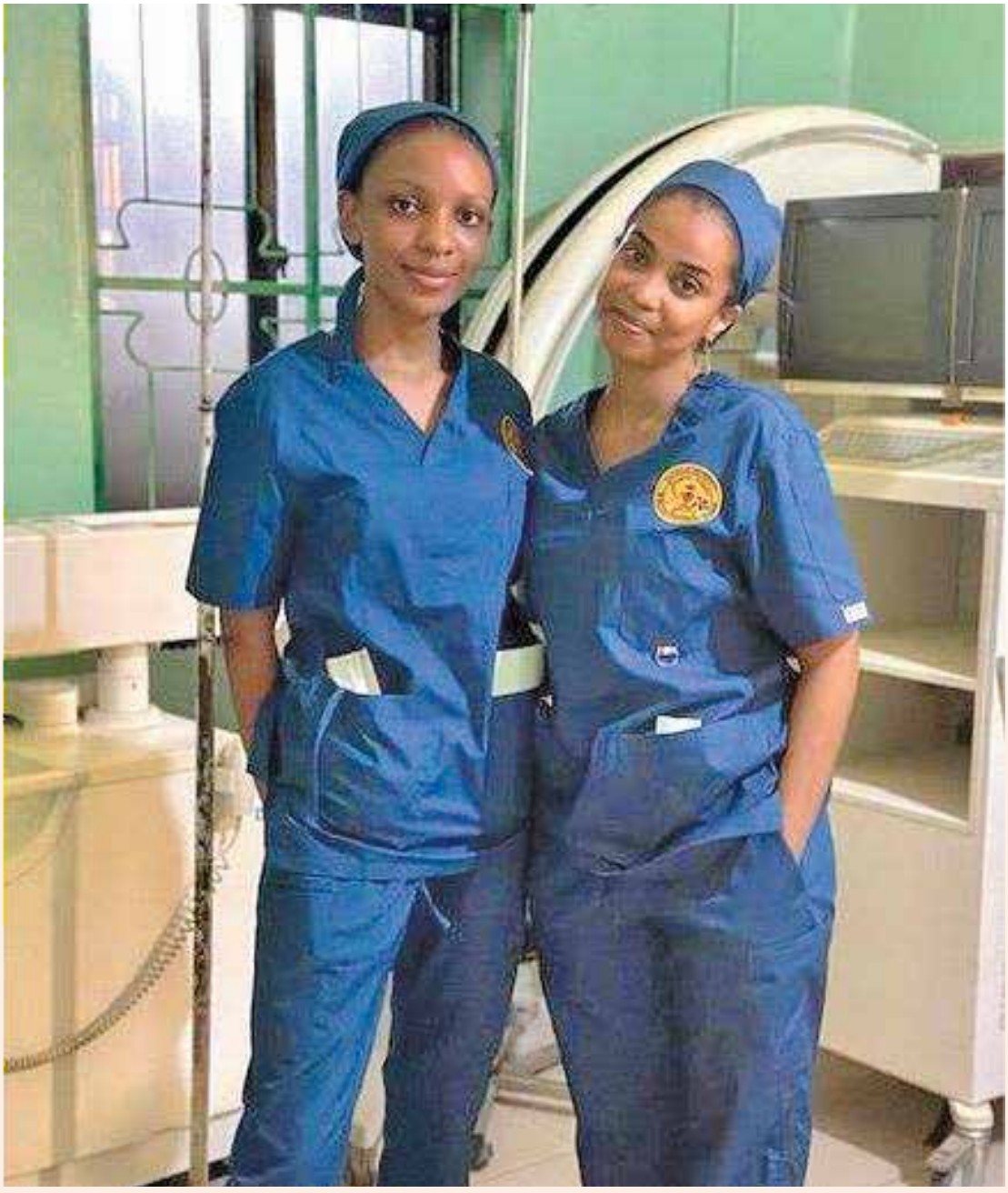
Summary of the Six semester Modules for BMLS Programmes

Course code	COURSE TITTLE	LH	TH	AH	ISH	PH	Total	CU
SEMESTER I: YEAR I								
BC 140	Biochemistry	160	50	40	20	30	300	30.0
AN 140	Functional Anatomy and Histology	100	40	20	30	40	230	23.0
IT 140	Laboratory practice informatics	30	20	25	10	25	110	11.0
LP 140	Medical laboratory practices	30	20	20	10	30	110	11.0
TOTAL		320	130	105	70	125	**750**	**75.0**
SEMESTER II: YEAR I								
PH 140	Basic Physiology	100	30	20	20	20	190	19.0
MB 140	Molecular Biology	120	50	20	25	35	250	25.0
ER 140	Bio-statistics and Epidemiology	90	20	20	30	30	190	19.0
DS 140	Development studies 1	50	20	20	20	10	120	12.0
TOTAL		360	120	80	95	95	**750**	**75.0**
SEMESTER I: YEAR II								
PE 240	Parasitology and Entomology	100	20	30	40	80	270	27.0
MM 240	Microbiology/Immunology	110	20	30	70	80	310	31.0
DS 240	Development studies 2	70	30	30	30	10	170	17.0
TOTAL		280	70	90	140	170	**750**	**75.0**
SEMESTER II: YEAR II								
SM 240	Clinical Microbiology	30	10	15	15	130	200	20.0
CC 240	Clinical Chemistry	30	10	15	15	130	200	20.0
PM 240	Public Microbiology	20	5	5	5	65	100	10.0
MP 240	Pathology, Hematopathology and Blood transfusion	115	15	15	25	80	250	25.0
TOTAL		195	40	50	60	405	**750**	**75.0**
SEMESTER I: YEAR III								
HT 340	Histotechnology and Cytology	80	15	15	30	160	300	30.0
SH 340	Hematology and Blood transfusion	45	15	10	10	100	180	18.0
DT 340	Molecular diagnostics techniques	60	15	15	20	110	220	22.0
TOTAL		185	45	40	60	370	**700**	**70.0**

SEMESTER II: YEAR III								
EF 340	Elective Laboratory Rotation and Field Project	10	15	15	20	580	640	64.0
ES 340	Entrepreneurship	40	10	8	7	5	70	7.0
MG 340	Laboratory Management and Planning	30	20	10	20	10	90	9.0
TOTAL		80	45	33	47	595	**800**	**80.0**
							4500	**450.0**

KEY: LH:Lecture Hours TH:Tutorial Hours AS: Assignment hours PH:Practical or Field work hours ISH: Independent studies hours CU:10 Notional Hours= 1 Credit Unit

BACHELOR OF SCIENCE IN MEDICAL IMAGING AND RADIOTHERAPY (BSC. MIR)



BACHELOR OF SCIENCE IN MEDICAL IMAGING AND RADIOTHERAPY

Programme Objectives

The BSc MIR programme is intended to produce graduates with:

- Sound knowledge in medical imaging and radiotherapy sciences
- High quality competencies in medical imaging and radiation cancer treatment. radiotherapy
- Competence to implement and promote quality services in medical imaging and radiotherapy.
- Highly vested with ethical and moral values in provision of medical imaging and radiotherapy.
- Ability to translate the national medical imaging and radiotherapy policies into programme, planning and management activities.

Programme Learning Outcomes:

- Programme expected learning outcomes and its associated teaching/learning activities and assessment criteria (learning outcomes should include knowledge, skills and competences as per UQF level descriptions).

Programme learning outcomes

Qualification category		**Undergraduate**	
Qualification type		**Bachelor's Degree**	
Levels		**8**	
	Competence Domain	**Learning outcomes**	**Assessment criter**
Learning outcomes	**Knowledge**	At the end of the programme the student should be able to: • Discuss biomedical sciences in relation to medical imaging and radiotherapy techniques • Discuss clinical pathology in relation to medical imaging and radiotherapy techniques • Illustrate the organization of Imaging units in different levels of the hospital • Describe the plan of Imaging units	Written (MCQs, sh answer and essay questions) and ora Examinations
	Skills	At the end of the programme the student should be able to: • Demonstrate quality medical imaging and radiotherapy procedures independently both in hospital and in the research field • Document imaging findings systematically and accurately • Perform quality services in relation to • medical imaging and radiotherapy	Practical examinations, case scenarios and assessment using logbooks

		• Collect imaging data in systematic way	
	Competences	At the end of the programme the student should be able to: • Perform medical imaging and radiotherapy tests both in hospital and in the research field • Provide mentorship to Junior in relation to medical imaging and radiotherapy	Practical examinations, case scenarios
	Attitude	At the end of the programme the student should be able to: • Practice quality medical imaging and radiotherapy procedures with integrate, reliability and in a friendly manner to patients • Demonstrate high level of professionalisms during practices	Observe elements temper, reliability, patience, friendly behaviour during training and practical examinations

Normal Learning and Course Matrix

All courses in this programme are Core Courses:

CODE	COURSE TITLE	LH	TH	AH	IS	PH	Total	Credit
YEAR 1: SEMESTER I								
AN 150	Anatomy	72	36	18	24	90	240	24
BC 150	Biochemistry	54	18	9	12	27	120	12
DS 150	Development Studies	36	18	9	8	9	80	8
ME 150	Medical Ethics	18	18		14	0	50	5
MI 150	Medical Imaging and Radiotherapy Informatics	36	18	18	16	72	160	16
	Semester Total	216	108	54	74	198	**650**	65
YEAR 1: SEMESTER II								
PH 150	Basic Physiology	72	18	18	24	18	150	15
SP 150	Medical Sociology and Psychology	36	18	9	8	9	80	8
MP 150	Medical Physics, Imaging and radiotherapy Equipment	54	18	9	14	45	140	14
RR 150	Radiobiology and Radiation Protection	54	18	18	14	36	140	14
IM 150	Image management	54	18	18	14	36	140	14
	Semester Total	270	90	72	74	144	**650**	65
YEAR 2: SEMESTER III								
CP 250	Pharmacology	72	36	18	26	18	170	17
XR 250	X-ray Imaging and Techniques	72	36	36	22	144	310	31
NE 250	Nursing Procedures and Emergency care	36	18	18	16	72	160	16
	Semester Total	180	90	72	64	234	**640**	64
YEAR 2: SEMESTER IV								
PP 250	Principles of Pathology	54	18	18	14	36	140	14
US 250	Ultrasound Imaging and Techniques	90	36	36	50	288	500	50
	Semester Total	144	54	54	64	324	**640**	64
YEAR 3: SEMESTER V								
CM 350	CT / MR Imaging and Techniques	90	36	18	36	270	450	45
ER 350	Biostatistics, Epidemiology & Research Methodology	72	18	18	26	36	170	17
	Semester Total	**162**	**54**	**36**	**62**	**306**	**620**	**62**

CODE	COURSE TITLE	LH	TH	AH	IS	PH	Total	Credit
YEAR 3: SEMESTER VI								
NM 350	Nuclear Medicine Imaging and Techniques	36	18	18	28	90	190	19
RO 350	Radiation Oncology	54	18	18	14	36	140	14
RP 350	Radiological and imaging Pathology	72	36	18	14	180	320	32
	Semester Total	162	72	54	56	306	**650**	65
YEAR 4: SEMESTER VII								
RT 450	Radiotherapy	54	18	18	14	126	230	23
EC 450	Echocardiography	36	9	9	12	144	210	21
US 450	Specialized Ultrasound Imaging and Techniques	36	9	9	12	144	210	21
Semester Total		126	36	36	38	414	**650**	65
YEAR 4: SEMESTER VIII								
EM 450	Entrepreneurship, Management & Planning	36	18	18	12	36	120	12
RP 450	Research Project and Fieldwork	18	36	18	38	450	560	56
	Semester Total	54	54	36	50	486	**680**	**68**
Grand Total							**5180**	**518**

KEY:

LH-lecture hours,
TH-tutorial hours,
AH-assignment hours,
IS-independent studies hours,
PH-practical hours,
CT-x-ray Computed Tomography,
MR-Magnetic Resonance.

SCHOOL OF PHARMACY

Dr. Karol Marwa , Dean
BPharm (UDSM)MSc. (Mbarara), PhD (CUHAS)

The School of Pharmacy at CUHAS- Bugando, started in 2010 with thirty six students. In accordance with the requirements laid down by the Tanzania Pharmacy Council, the Bachelor of Pharmacy degree is designed to produce healthcare professionals who are committed to meeting the pharmaceutical needs of all health seeking communities.

VISION
To provide Highly Qualified Pharmacists who can suit the Pharmaceutical needs of Tanzania, in Health Care Systems, Community, Training and Research Institutions.

MISSION

- To provide skilled and competent human resources in the health sector that is vested with moral and ethical values.
- Search, discover and communicate the truth to advance the frontiers of knowledge and Provide quality services to the community

BACHELOR OF PHARMACY (BPHARM)

BACHELOR OF PHARMACY (BPHARM)

Broad Objectives

- To produce pharmacists who have excellent academic knowledge and competence in order to meet the pharmaceutical requirements and standard in the country.

Specific Objectives

- To produce pharmacists who have the ability to work methodically, carefully and accurately in Pharmaceutical industry, Hospital & Community Pharmacy, Pharmaceutical Quality Control & Assurance, Pharmacy Regulatory Affairs, Drug Information Services, Research & Development and Academia/Consultancy.

PROGRAMME GOALS

(i) To train highly qualified pharmacists, in order to meet the requirements of pharmaceutical services in Tanzania, who can provide pharmaceutical care to patients, who can develop and manage medication distribution and drug control system, who can manage community pharmacies properly and participate in promoting public health and provide adequate drug information and education.

(ii) To produce pharmacists suited to the needs of the country, but, also meet the general standard of competence of pharmacists from other countries in the region.

(iii) To stimulate and nurture in students and graduates the desire to initiate research in local drug problems and traditional medicinal plants as well as research into other fields of pharmaceutical and medical interests

STRUCTURE OF MODULES

Code	Course Name	LH	TS	AH	IS	PH	TH	Credits
YEAR 1: SEMESTER 1								
BP120	Basics of Clinical & Community Pharmacy	17	8	0	0	9	34	3.4
AN120	Anatomy	85	17	4	2	34	142	14.2
BC120	Biochemistry	85	34	4	2	51	176	17.6
EP120	Introduction to Professionalism & Ethics	17	9	4	4	0	34	3.4
DS120	Development Studies	34	17	14	25	0	90	9.0
CH120	General, Physical Inorganic and Aliphatic Chemistry	68	17	4	4	51	144	14.4
Semester Total		**306**	**102**	**30**	**37**	**145**	**620**	**62.0**
YEAR 1: SEMESTER 2								
NA120	Neuroanatomy	17	17	3	3	17	57	5.7
HS120	Health Sociology	34	17	4	5	0	60	6.0
HP120	Health Psychology	34	17	7	7	0	65	6.5
PH120	Physiology	119	34	3	3	51	210	21.0
IC120	ICT & Communication Skills	17	17	17	6	51	108	10.8
PC120	Pharmaceutics	34	17	6	6	51	114	11.4
Semester Total		**255**	**119**	**40**	**30**	**170**	**614**	**61.4**
YEAR 2: SEMESTER 3								
PE220	Parasitology and Medical Entomology	51	17	10	7	34	119	11.9
MI220	Pharmaceutical Microbiology	97	23	16	18	76	230	23.0
BE220	Epidemiology & Biostatistics	85	34	9	9	34	171	17.1
PC220	Introduction to Pharmaceutical Technology	34	17	6	6	34	97	9.7
Semester Total		**267**	**91**	**41**	**40**	**178**	**617**	**61.7**

YEAR 2: SEMESTER 4								
PA220	Principles of General Pathology	40	11	8	8	24	91	9.1
CP220	Clinical Pharmacology	102	34	17	11	34	198	19.8
CC220	Basic Pharmaceutical Calculations & Compounding of Liquid Preparations	17	34	4	4	85	144	14.4
CH220	Organic Chemistry & Spectroscopy	85	17	9	9	51	171	17.1
Semester Total		**244**	**96**	**38**	**32**	**194**	**604**	**60.4**
YEAR 3: SEMESTER 5								
EP320	Pharmacy Ethics	24	14	4	3	6	51	5.1
NU320	Nutrition	13	13	8	8	9	51	5.1
CC320	Pharmaceutical Calculations and Solid & Semisolid Preparations	11	33	4	4	78	130	13.0
PG320	Pharm Botany & Pharmacognosy	63	13	4	6	146	232	23.2
PP320	Community Pharmacy Practice	21	22	7	7	89	146	14.6
Semester Total		**132**	**95**	**27**	**28**	**328**	**610**	**61.0**
YEAR 3: SEMESTER 6								
ML320	Management & Leadership in Pharmacy	30	12	6	5	108	161	16.1
PT320	Pharmaceutical Phytochemistry	36	4	5	5	66	116	11.6
PC320	Industrial Pharmacy	36	21	17	8	100	182	18.2
DC320	Drug Development & Chemotherapy	52	24	9	12	36	133	13.3
Semester Total		**154**	**61**	**37**	**30**	**310**	**592**	**59.2**
YEAR 4: SEMESTER 7								
Code	Course Name	LH	TS	AH	IS	PH	TH	Credits
PC420	Biopharmaceutics and Pharmacokinetics	34	34	12	12	51	143	14.3
TC420	Therapeutics of Communicable Diseases	17	17	9	9	68	120	12.0
PD420	Medicinal Chemistry of Pharmacodynamic Agents	34	34	12	12	51	143	14.3
HR420	Health Research	17	17	9	9	0	52	5.2
PG420	Applied Pharmacognosy	34	34	12	12	51	143	14.3
Semester Total		**136**	**136**	**54**	**54**	**221**	**601**	**60.1**
YEAR 4: SEMESTER 8								
TN420	Therapeutics of Non-Communicable Diseases	39	26	18	40	104	227	22.7
PP420	Forensic Pharmacy	13	26	9	9	13	70	7.0
EN420	Entrepreneurship	23	2	12	12	5	54	5.4
RP420	Research Field Project	0	13	39	52	140	244	24.4
Semester Total		**75**	**67**	**78**	**113**	**262**	**595**	**59.5**
Programme Total		**1569**	**767**	**345**	**364**	**1808**	**4853**	**485.3**

KEY:
LH-Lecture hours,
TH-Tutorial/seminars hours,
AH-Assignment hours,
IS-Independent studies,
PH-Practical/Fieldwork/Clinical rotation hours,
TH-Total hours

NB: A semester has 20 weeks with 18 teaching weeks: A week has 35 contact hours

ARCHBISHOP ANTHONY MAYALA SCHOOL OF NURSING (AAMSoN)

Dr. Kija Malale, Ag. Dean
BSc.N (MUHAS), MSc (Kenya), PhD (China), Postdoc (South Africa)

Founded in 2010 under the Catholic University of Health and Allied Sciences (CUHAS), the Archbishop Anthony Mayala School of Nursing (AAMSoN) stands as a centre of excellence in training professional nurses and nurse educators. Through its Bachelor of Science in Nursing Education (BSc.NED) and Bachelor of Science in Nursing (BSc.N) programmes, the school develops innovative, adaptable, and competent graduates who are well prepared to meet the ever-evolving demands of the nursing profession, technological advancements, and socio-economic transformations. With a strong commitment to nursing standards, professionalism, and the ethical values that uphold the dignity of human life, AAMSoN ensures its graduates are not only skilled practitioners but also compassionate caregivers and educators. Both programmes are four-year, full-time courses: the BSc.N admits both pre-service and in-service students, while the BSc.NED) is exclusively tailored for in-service candidates.

BACHELOR OF SCIENCE IN NURSING EDUCATION (BSc.NED)

INTRODUCTION

CUHAS has been granted permission to run the Bachelor of Science in Nursing Education (B.Sc. NED) degree programme. During the academic year 2010/2012 the Governing Board approved the establishment of the Archbishop Anthony Mayala School of Nursing with the responsibility for administering the BSc.NED degree programme. The degree programme is for 4 academic years

BACHELOR OF SCIENCE IN NURSING EDUCATION

BACKGROUND

The training of health personnel in Tanzania has not kept pace with the increasing needs for health services. According to staffing levels approved in 1999 the country requires a workforce of 53,481 in its 5,500 health facilities. However, the staffing level stands at 21,248; implying a workforce deficit of 32,403. Therefore, nearly 60% of the posts in the health sector are vacant. The deficit for enrolled nurses is the highest. It stands at 18,878. The nursing sector therefore contributes more than half of the deficit in the entire health sector.

The low number of nursing staff may be a result of few training positions. However, there are over fifty institutions that offer a diploma and/or certificate in nursing in Tanzania. But these are poorly staffed. Each has an average of four professionally trained and registered nurse tutors; most of them had Advance Diploma in Nursing Education. Shortage of nurse tutors in Tanzania may have contributed to the inadequate qualified nurses. None the less there is a growing demand for higher quality nursing care in Tanzania; brought about by changes in health seeking behaviour and growth of health risks in a changing global environment. Unfortunately, Tanzania has for a long time depended upon overseas Universities for higher education in nursing. The numbers of degree opportunities remain quite limited compared with the local demand for more highly educated nursing professionals. Due to significant growing of levels of education, these tutors need to be upgraded to degree level. Currently there is no any training school which produces Nurse Teachers to degree level in Tanzania, hence the need to have such a program at CUHAS This will provide more and highly qualified nurse teachers to keep pace with the technological and social changes relevant to the nursing profession. CUHAS is well placed. It is in close proximity to the Bugando Medical Centre (BMC) a teaching, referral and consultant hospital with capacity of 870 beds. BMC is responsible for health services in the Lake Zone, serving a population of approximately 10 million people.

PROGRAMME GOAL

(i) To upgrade Diploma level nurses and Nurse tutors with Advanced Diploma in Nursing Education to degree level, in order to meet the general standard of competence in nursing education.

(ii) To produce Nurse Tutors suited to the needs of the country and contribute to raising the general standards of competence in nursing education.

PROGRAMME OBJECTIVES

Broad Objectives

- To produce competent university graduates in nursing education who will have: sound knowledge of nursing education and health science adapted to suit local needs, real commitment to the health needs of people and role models.
- Create a pool of nurses endowed with a quality scientific base necessary to enable them to be innovative and to handle nursing problems in Tanzania; able to rehabilitate the sick, to prevent or minimize the adverse sequelae of disease and to promote health.

Specific Objectives

The graduate of BSc Nursing Education programme should be able to:

- Interpret and base nursing practice on philosophy, purpose, policy and standards of the institution at which he/she belongs.
- Relate health of the community to socio-economic and political development in providing health and education services.
- Conduct research, publish and utilize research findings for evidence based practice,
- Recognize limits of her/his competence in the provision of health care in the community and refer such issues to higher levels.
- Manage health care and educational institutions.
- Improve the health and wellbeing of all clients by quality-nursing care based on their needs, problems, ongoing reforms and advances in science and technology.
- Utilize concepts of educational media and technology in teaching and learning environment.
- Utilize concepts of sociology both at learning institution and community.
- Facilitate effectively and efficient learning and teaching activities to nurses and other personnel.
- Apply concepts of educational psychology in teaching and learning settings.

JUSTIFICATION

The growing demand for high quality nursing provision, increase level of education and growing of technology among communities in Tanzania has contributed to the need for highly qualified nurse tutors, who will then produce the competent nurses. Furthermore, there is a growing demand for higher quality nursing provision in Tanzania due to the increasing population, health seeking behaviour and growth of health risks in a changing global environment. Currently there is no any training school which aims to convert Nurse Teachers (Advance Diploma in Nursing Education) to degree level in Tanzania. Collectively, all these factors have resulted into a high demand of graduate nurses with education at CUHAS.

PROGRAMME ORGANIZATION

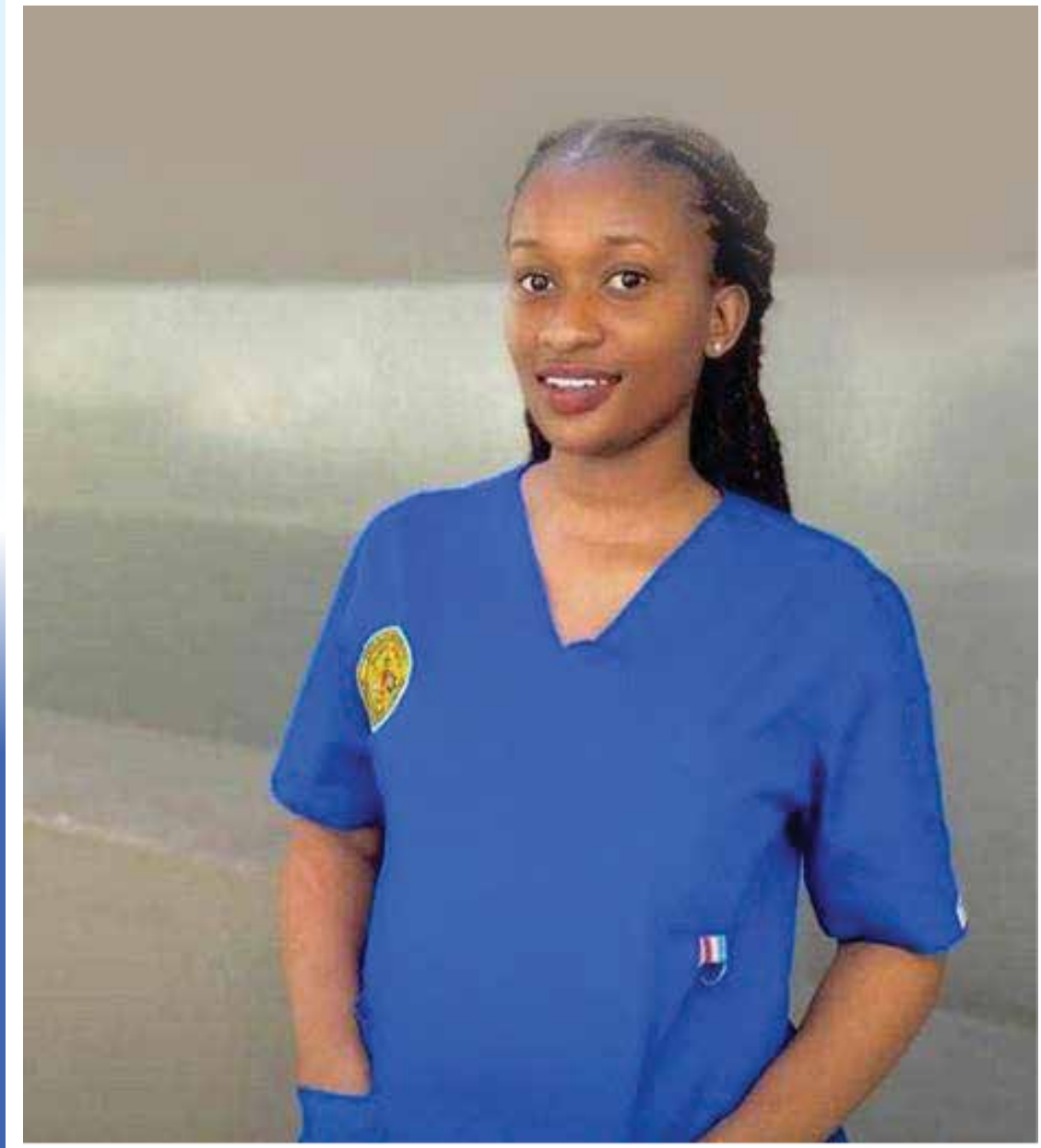
- The academic year will have two semesters of seventeen weeks each.
- Use a weighting system in which 1 Credit = 10 notion hours. These hours include lectures, seminars and tutorials, Assignments, independent studies & Research and Practical training.
- Have a one-week mid-semester break.
- Have a two week break between each semester.
- Conduct final university examinations at the end of each semester.
- Invite external examiners at the end of each semester.
- Use the GPA system to assist in disposal of students.
- Each course should have at least two continuous assessments.

STRUCTURE OF THE MODULES (The Normal Learning Matrix)

Semester 1: Year 1									
Code	***Course Name***	***Core***	***LT***	***T/SH***	***AH***	***ISH***	***PH***	**TH**	***Credits***
FN100	Foundations and basic Principles of Nursing	Core	17	9	17	**10**	**51**	104	**10.4**
AN100	Anatomy	Core	85	17	11	34	85	232	23.2
BC100	Biochemistry	Core	85	34	34	32	51	236	23.6
EP100	Introduction to Professionalism &Ethics	Core	17	7	7	5	0	36	3.6
Total			**204**	**67**	**69**	**81**	**187**	**608**	**60.8**
Semester 2 Year 1									
NA100	Neuroanatomy	Core	17	17	11	11	34	90	9.0
HP100	Health Psychology	Core	34	17	7	7	0	65	6.5
HS100	Health Sociology	Core	34	17	4	5	0	60	6.0
PH100	Physiology	Core	119	34	34	52	51	290	29.0
IC100	ICT and communication skills	Core	17	17	17	6	51	108	10.8
Total			**221**	**102**	**73**	**81**	**136**	**613**	**61.3**
Semester 3: Year 2									
Code	***Course Name***	***Core***	***LT***	***T/SH***	***AH***	***ISH***	***PH***	**TH**	***Credits***
MI200	Microbiology & Immunology	Core	85	17	10	14	68	194	19.4
PE200	Parasitology Entomology	Core	51	17	10	7	34	119	11.9
BE200	Biostatistics and Epidemiology	Core	85	34	34	18	34	205	20.5
DS200	Development studies	Core	34	17	14	25	0	90	9.0
Total			**255**	**85**	**68**	**64**	**136**	**608**	**60.8**
Semester 4: Year 2									
Code	**Course Code**	**Core**	**LH**	**T/SH**	**AH**	**ISH**	**PH**	**TH**	**Credits**
CP200	Clinical Pharmacology	Core	102	34	17	11	34	198	19.8
AP200	Advanced Principles of Nursing	Core	34	17	10	10	34	105	10.5
RE200	Research in Education	Core	17	17	17	17	34	102	10.2
HE 200	Health Education Materials and Media	Core	34	17	17	17	34	119	11.9
CH200	Community Health Nursing	Core	34	17	20	7	0	78	7.9
Total			**221**	**119**	**81**	**62**	**119**	**602**	**60.2**

Semester 5: Year 3									
Code	**Course Name**	**Core**	**LH**	**T/SH**	**AH**	**ISH**	**PH**	**TH**	**Credits**
EP300	Professionalism and Ethics in Nursing and Teaching	Core	34	17	8	9	17	85	8.5
MS300	Medical-Surgical Nursing	Core	68	34	17	11	175	305	30.5
LE300	Management and Administration in Nursing and Education	Core	34	17	8	10	51	120	12.0
ED300	Educational Psychology	Core	34	17	12	10	17	90	9.0
Total			**170**	**68**	**81**	**67**	**214**	**600**	**60.0**
Semester 6: Year 3									
Code	**Course Name**	**Core**	**LH**	**T/SH**	**AH**	**ISH**	**PH**	**TH**	**Credits**
MW300	Midwifery	Core	34	17	8	8	85	152	15.2
PN300	Paediatric Nursing	Core	34	17	7	7	68	133	13.3
MH300	Mental Health	Core	34	17	7	7	85	150	15.0
CD300	Curriculum Development and Evaluation	Core	17	17	10	8	51	103	10.3
LT300	Learning and Teaching Methodology	Core	17	17	10	8	17	70	7.0
Total			**136**	**85**	**42**	**39**	**306**	**608**	**60.8**
Semester 7: Year 4									
Code	**Course Name**	**Core**	**LH**	**T/SH**	**AH**	**ISH**	**PH**	**TH**	**Credits**
MP400	Midwifery Practice	Core	4	17	17	16	96	150	15.0
CH400	Community health field	Core	4	17	17	16	96	150	15.0
AR400	Applied Research fieldwork	Core	4	17	17	16	96	150	15.0
PN400	Paediatric Nursing Practice	Core	4	17	17	16	96	150	15.0
Total			**16**	**68**	**68**	**64**	**384**	**600**	**60.0**
Semester 8: Year 4									
Code	**Course Name**	**Core**	**LH**	**T/SH**	**AH**	**ISH**	**PH**	**TH**	**Credits**
FP400	Forensic Psychiatric Field	Core	8	8	17	17	140	190	19.0
MS400	Medical-surgical practice	Core	4	4	17	17	140	172	17.2
TP400	Teaching Practice	Core	4	4	10	10	210	238	23.8
	Total		**16**	**16**	**34**	**44**	**490**	**600**	**60.0**
	Total per programme		**1239**	**627**	**480**	**475**	**2018**	**4839**	**483.9**
	%		**25.6**	**12.9**	**10**	**9.8**	**41.7**	**100%**	

BACHELOR OF SCIENCE IN NURSING (BSc.N)



BACHELOR OF SCIENCE IN NURSING

BACKGROUND

Tanzania is facing a human resource crisis in the health sector. This shortage is mainly caused, amongst other factors, by a low output of qualified staff and mal-distribution in health facilities in the country. The Ministry of Health and Social Welfare intends to minimize the problem of human resource shortage by increasing training output, expansion of students' intake and involvement of the private sector in training health workers who will be able to provide quality health care services. It is in this spirit that the Tanzania Episcopal Conference decided to start a medical school in order to participate in addressing this health human resource crisis.

In the Tanzania Development Vision 2025, the main objective is to achieve high quality livelihood of all Tanzanians. So, training of highly qualified professionals will enable meet this objective. AAMSoN-CUHAS is therefore, in line with the Tanzanian vision of 2025 and beyond. The Archbishop Anthony Mayala School of Nursing (AAMSoN), of the Catholic University of Health and Allied Sciences (CUHAS), is undertaking an expansion of its academic programmes. The AAMSoN-CUHAS aims at running a four-year Generic Basic Bachelor of Science in Nursing (BSc. N) programme which will provide room for Diploma holder nurses and Form six leavers to continue with higher learning education. The programme aims at producing highly competent nurse graduates who will be responsible for providing quality nursing services to the people of Tanzania and elsewhere.

Like other professional nursing training programs, the programme is intended to prepare nurses who are accountable and responsible for health care in a dynamic society. To this end nurses must be educated to assume current nursing roles and to adapt to future health needs.

We believe graduates of this programme will create a pool that can later focus on clinical practice and those who may wish to join the teaching profession. These two different focused areas form the basis for the development of Masters Programmes in Nursing and midwifery; in line with the current vision of the Nursing and Midwifery Council.

AIM OF THE PROGRAMME

To strengthen the nursing profession by developing competent nurses with knowledge, skills, understanding and positive attitude pertaining to nursing and midwifery care utilizing evidence-based practice to display professionalism, moral and ethical conduct appropriate for handling the growing health care needs nationally, regionally and internationally.

EXPECTED COMPETENCIES: On completion of the programme, the graduate is expected to have the following competencies.

Professional Cognitive skills

- Apply the knowledge of basic sciences in caring for client/patient with different health conditions.
- Apply effective interpersonal relationship skills at work, within families, clients and the community at large.
- Utilize ethical principles when providing care to clients/patients, families and the community at large

- Apply entrepreneurship skills for self, professional and institutional development in the social, economic and political context.
- Apply the principles of infection prevention and control when caring for clients/patients in all settings.
- Utilize computer skills in processing health information.
- Demonstrate quality nursing care utilizing nurse practice acts and standards.
- Use the research knowledge in provision of evidence based care to client/ patients.
- Utilize nursing process when managing patients/clients in health-related setting.
- Utilize the public health/ Community health knowledge in managing community health problems.
- Apply the principles of teaching/learning during provision of care to patients, co-workers and the community at large.
- Apply leadership and management skills in nursing practice.

Professional Psychomotor Skills

- Demonstrate skills in providing quality care to patients with various conditions in all settings.
- Maintain effective interpersonal relationship skills at work, within families, clients and the community at large.
- Demonstrate ethical principles when providing care to clients/patients, families and the community at large.
- Design entrepreneurship project for self, professional and institutional development.
- Maintain the principles of infection prevention and control when caring for clients/patients in all settings.
- Apply computer skills in processing health information.
- Conduct health related research and utilize research findings for evidence-based practice
- Use nursing process when managing patients/clients in health-related setting.
- Demonstrate public health/ Community health skills in managing community health problems.
- Use principles of teaching & learning during provision of care to patients, co-workers and the community at large.
- Demonstrate leadership and management skills and act as a change agent within the political, social, and health care systems in the practice of nursing
- Respond efficiently and effectively to emergency and disaster situations.
- Demonstrate skills in managing client with STI and HIV/AIDS.

Professional affective skills

- Share empathetically relevant information regarding sensitive health problems with patients/ clients and families.
- Practice ethically and with integrity in maintaining patient's confidentiality, obtaining appropriate informed consent and responding to medical evidence .
- Respond professionally to patient/client's cultural diversity, race/ethnicity, age, socioeconomic status, gender, sexual orientation, spirituality, disabilities and other aspects of diversity when providing care to clients.
- Value standards of professional conducts when providing care to patients/clients.
- Observe compassion, respect and sensitivity to patient/client's individuality when giving nursing care.

- Use information technology to access medical information and assimilate evidence from scientific studies to manage patients effectively.

SEMESTERISATION / MODULARISATION OF THE PROGRAMME

The BSc.N programme is a four-year programme. There are eight semesters with courses and modules specified. The total number of Credits in this programme is 484.1. During this programme students will have field practice i.e. research data collection and Community health nursing in semester 7, as well as Forensic Psychiatric Nursing in semester 8.

Important Features in the Programme

- The academic year will have two semesters of seventeen weeks each.
- Use a weighting system in which 1 Credit = 10 notion hours. These hours include lectures, seminars and tutorials, Assignments, independent studies & Research and Practical training.
- Have a one-week mid-semester break.
- Have a two week break between each semester.
- Conduct final university examinations at the end of each semester.
- Invite external examiners at the end of each semester.
- Use the GPA system to assist in disposal of students.
- Each course should have at least two continuous assessments.

STRUCTURE OF MODULES

Semester 1: Year 1									
Code	**Course Name**	**Core**	**LH**	**T/SH**	**AH**	**IS H**	**PH**	**TH**	**Credits**
FN100	Foundations & Basic Principles of Nursing	Core	17	9	17	10	51	104	10.4
AN100	Anatomy	Core	85	17	11	34	85	232	23.2
BC100	Biochemistry	Core	85	34	34	32	51	236	23.6
EP100	Introduction to Professionalism & Ethics	Core	17	7	7	5	0	36	3.6
Total			**204**	**67**	**69**	**81**	**187**	**608**	**60.8**
Semester 2: Year 1									
Code	**Course Name**	**Core**	**LH**	**T/SH**	**AH**	**ISH**	**PH**	**TH**	**Credits**
NA100	Neuroanatomy	Core	17	17	11	11	34	90	9.0
HP100	Health Psychology	Core	34	17	7	7	0	65	6.5
HS100	Health Sociology	Core	34	17	4	5	0	60	6.0
PH100	Physiology	Core	119	34	34	52	51	290	29.0
IC100	ICT and Communication skills	Core	17	17	17	6	51	108	10.8
Total			**221**	**102**	**73**	**81**	**136**	**613**	**61.3**

Semester 3: Year 2									
Code	**Course Name**	**Core**	**LH**	**T/SH**	**AH**	**ISH**	**PH**	**TH**	**Credits**
MI200	Microbiology & Immunology	Core	85	17	10	14	68	194	19.4
PE200	Parasitology & Medical Entomology	Core	51	17	10	7	34	119	11.9
BE200	Biostatistics and Epidemiology	Core	85	34	34	18	34	205	20.5
DS200	Development studies	Core	34	17	14	25	0	90	9.0
Total			**255**	**85**	**68**	**64**	**136**	**608**	**60.8**
Semester 4: Year 2									
Code	**Course Code**	**Core**	**LH**	**T/SH**	**AH**	**ISH**	**PH**	**TH**	**Credits**
CP200	Clinical Pharmacology	Core	102	34	17	11	34	198	19.8
AP200	Advanced Principles of Nursing	Core	34	17	10	10	34	105	10.5
NR200	Nursing Research	Core	17	17	17	17	34	102	10.2
T&L200	Teaching and Learning in Clinical Practice	Core	34	17	17	17	34	119	11.9
CH200	Community Health Nursing	Core	34	17	20	7	0	78	7.9
Total			**221**	**119**	**81**	**62**	**119**	**602**	**60.2**
Semester 5: Year 3									
Code	**Course Name**	**Core**	**LH**	**T/SH**	**AH**	**ISH**	**PH**	**TH**	**Credits**
EP300	Ethics and Professionalism	Core	34	17	12	10	12	85	8.5
MS300	Medical-Surgical Nursing	Core	85	34	17	11	180	327	32.7
LE300	Leadership & Management and Entrepreneurship	Core	80	34	20	20	34	188	18.8
Total			**170**	**68**	**81**	**67**	**214**	**600**	**60.0**
Semester 6: Year 3									
Code	**Course Name**	**Core**	**LH**	**T/SH**	**AH**	**ISH**	**PH**	**TH**	**Credits**
MW300	Midwifery	Core	68	34	17	7	180	306	30.6
PN300	Paediatric Nursing	Core	51	17	7	7	70	152	15.2
MH300	Mental Health	Core	51	17	7	7	70	152	15.2
Total			**170**	**68**	**31**	**21**	**320**	**610**	61.0
Semester 7: Year 4									
Code	**Course Name**	**Core**	**LH**	**T/SH**	**AH**	**ISH**	**PH**	**TH**	**Credits**
MP400	Midwifery Practice	Core	4	17	17	16	96	150	15.0
CH400	Community health field	Core	4	17	17	16	96	150	15.0
AR400	Applied Research fieldwork	Core	4	17	17	16	96	150	15.0
PN400	Paediatric Nursing Practice	Core	4	17	17	16	96	150	15.0
Total			**16**	**68**	**68**	**64**	**384**	**600**	**60.0**
Semester 8: Year 4									
Code	**Course Name**	**Core**	**LH**	**T/SH**	**AH**	**ISH**	**PH**	**TH**	**Credits**
FP400	Forensic Psychiatry Field	Core	8	8	17	17	250	300	30.0
MS400	Medical-surgical practice	Core	8	8	17	17	250	300	30.0
	Total		**16**	**16**	**34**	**34**	**500**	**600**	**60.0**
	Total per programme		**1273**	**593**	**505**	**474**	**1996**	**4841**	**484.1**
	%		**26.3**	**12.3**	**10.4**	**9.8**	**41.2**	**100%**	

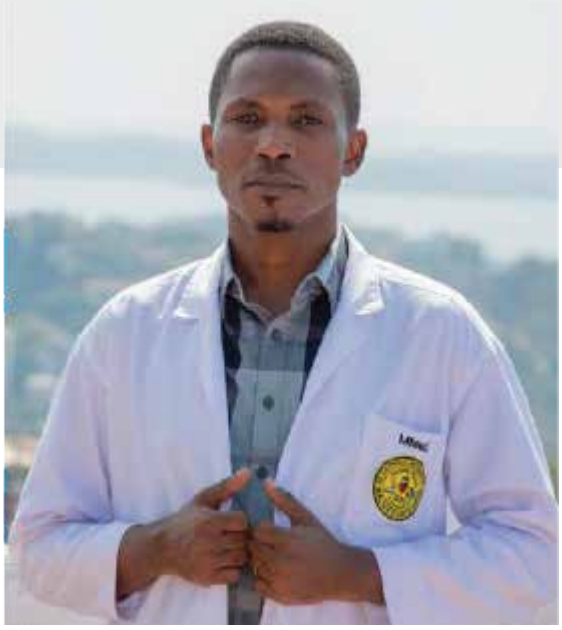
DIRECTORATE OF POSTGRADUATE STUDIES

Prof. Semvua B. Kilonzo
MD (KCM College, Moshi); MMed (CUHAS); PhD (Wuhan, China)

Introduction

The Directorate of Postgraduate studies coordinates and oversees all Postgraduate Programmes at CUHAS. It is currently coordinating all Masters of Medicine programmes (MMed), Masters of Science in Paediatric Nursing (MSc PN), Masters of Public Health (MPH), Master of Science in Clinical Microbiology and Diagnostic Molecular Biology (MSc. CMDMB), Master of Science in Epidemiology and Biostatistics (MSc.EB) and Doctor of Philosophy (PhD) programmes.

THE MASTER OF MEDICINE (MMed) PROGRAMMES



MASTER OF MEDICINE PROGRAMMES

The Catholic University of Health and Allied Health Sciences-Bugando (CUHAS-Bugando) currently runs Master of Medicine programmes in the following specialties: Internal Medicine, Surgery, Paediatrics and Child Health, Obstetrics and Gynaecology, Orthopaedics and Trauma, Anatomical Pathology, Radiology and ENT.

SUMMARY OF THE MASTER OF MEDICINE (MMed) CURRICULUM

These are three years programmes to be offered in six semesters.

Semester I will cover biomedical science subjects relevant to the specialty. It will also cover the theoretical and technical background on the various relevant technical investigations.

Semesters 2 to 6 will cover the specific clinical subjects of the different specialties as indicated below.

MASTER OF MEDICINE IN INTERNAL MEDICINE (MMed IM)

Objectives of the Programme

To produce highly skilled and competent internists with sound scientific principles of international standard required for a specialist in internal medicine.

Program expected learning outcomes

Knowledge	i. Comprehend scientific knowledge of Physiology, Biochemistry, Microbiology & Immunology, Clinical Pharmacology, Epidemiology and Research Methods relevant to the needs of medical patient. ii. Apply new innovations in the medical field and other related fields through continuing education and multidisciplinary interactions. iii. Demonstrate competency in the teaching of undergraduate medical students and other allied health cadres.
Skills	i. Manage competently all medical problems in the fields of infectious diseases, cardiology, nephrology, neurology, gastroenterology, dermatology, rheumatology, nutrition and metabolic diseases. ii. Comprehend laboratory, radiological and endoscopic investigations to reach appropriate diagnosis for specific patients' management. iii. Plan and conduct clinical medical research competently relevant to the needs of the medical patient and community iv. Demonstrate leadership competency in the appropriate or related field of his/her training.
Attitude	i. Demonstrate high professional & ethical standards in the course of his professional medical practice in Internal Medicine towards patients, colleagues and the community.
Competences	i. Manage competently all medical problems in the fields of infectious diseases, cardiology, nephrology, neurology, gastroenterology, dermatology, rheumatology, nutrition and metabolic diseases. ii. Plan and conduct clinical medical research competently relevant to the needs of the medical patient and community

Normal learning Matrix

All courses in this programme are core

Year/ Semeste	Code	Course title	LH	TH	AS	PH	IS	CH	Credits
Year 1 Semester 1	PY600	Clinical Physiology	42	62	40	60	76	280	28.0
	BC600	Clinical Biochemistry	32	48	30	88	62	260	26.0
	MI600	Microbiology and Immunology	50	88	40	90	52	320	32.0
	CP600	Clinical Pharmacology	48	78	40	74	60	300	30.0
	ER600	Epidemiology, Biostatistics and Research Methods	30	24	36	80	20	190	19.0
	ME600	Medical ethics and professionalism	20	10	5	0	5	40	4.0
	Total year 1 semester 1		222	310	191	392	275	1390	135.0
Year 1 Semest	ID600	Infectious Diseases	48	92	40	96	64	340	34.0
	CD600	Cardiology	42	82	33	113	50	320	32.0
	RD600	Respiratory diseases	36	72	20	92	40	260	26.0
	Total year 1 semester 2		126	246	93	301	154	920	92.0
	Total year I		**348**	**556**	**284**	**693**	**429**	**2310**	**231.0**
Year 2 Semester 1	DM700	Dermatology	30	60	20	80	30	220	22.0
	HM700	Hematology	24	48	30	108	50	260	26.0
	NM700	Nutrition and Metabolic Diseases	52	104	40	114	50	360	36.0
	DT700	Dissertation I (proposal development)	20	20	10	10	70	130	13.0
	Total year 2 semester 1		126	232	100	312	200	970	97.0
Yer 2 Semester 2	RT700	Rheumatology	20	38	30	72	40	200	20.0
	GT700	Gastroenterology	46	92	40	140	42	360	36.0
	NE700	Neurology	36	72	25	152	35	320	32.0
	DT700	Dissertation II (Data collection)	0	10	30	80	50	170	17.0
	Total year 2 semester 2		102	212	125	444	167	1050	105.0
	Total Year II		**228**	**444**	**225**	**756**	**367**	**2020**	**202.0**
Year 3 Semester	NP800	Nephrology	34	72	30	134	50	320	32.0
	GR800	Geriatrics	8	22	60	80	90	260	26.0
	DT800	Dissertation III (Data analysis)	20	10	20	300	40	390	39.0
	Total year 3 semester 1		62	104	110	514	180	970	
Year 3 Semester 2	CT800	Chronic Disorders and Terminal Care	4	8	20	64	24	120	12
	PD800	Paediatrics	4	8	16	72	20	120	12
	PS800	Psychiatry	4	8	16	72	20	120	12
	DT800	Dissertation IV (report writing and viva voce)	0	20	20	60	40	140	14
	AP800	Advanced Clinical Practice	12	42	68	192	106	420	42
	Total year 3 semester 2		24	86	140	460	210	920	92
	Total Year III		**86**	**190**	**250**	**974**	**390**	**1890**	**189.0**
TOTAL HOURS AND CREDITS			**662**	**1190**	**759**	**2423**	**1186**	**6220**	**622.0**

NOTE: All courses are core

KEY:	IS: Independent studies
LH: Lecture Hours	CU: Credit unit
TH: Tutorial Hours	CH: Credit Hours
AH: Assignment Hours	10 Notional Hours= 1 CREDIT UNIT
PH: Practical or Field work hours	Numbering: Programme, Year, Semester, Course

MASTER OF MEDICINE IN OBSTETRICS AND GYNAECOLOGY (MMed OBGYN)

Objectives of the Programme

The main objective of this programme is to train suitable candidates to become highly skilled and competent Obstetricians and Gynaecologists. On successfully completion of the training the graduate in MMed Obstetrics and Gynaecology is expected to be able to work independently with sound scientific principles of international standard required for a specialist in Obstetrics and Gynaecology, and have the knowledge, skills, attitude and ethics, related to the profession.

Program expected learning outcomes

Knowledge	• Recognize basic scientific knowledge underlying different obstetrics and gynaecology disorders • Analyse structure, functioning, development and growth for the normal and abnormal reproductive systems. • Understand basic concepts of laboratory procedures necessary for diagnosis and treatment of obstetric and gynaecological disorders • Identify and discuss common problems related to normal and abnormal labour • Describe different management modalities for obstetrics and gynaecological problems
Skills	• Assess patients clinically and interpret laboratory and/or radiological investigations to reach the right diagnosis. • Manage appropriately obstetrics/gynaecological conditions • Perform surgical procedures in obstetrics and gynaecology • Interpret research findings that are necessary to improve patient care in obstetrics/gynaecology.
Competences	• Demonstrate ability to prioritize professional duties effectively when faced with multiple patients and problems • Practice in a manner ethically, morally and culturally sensitive to clients' needs • Communicate with other health care providers

Normal learning Matrix

All courses in this program are core

Year 1 Semester 1

Code	Course title	LH	TH	AS	IS	PH	TH	Credits
ER600	Epidemiology and Research Methods	56	30	7	19	48	160	16
AN 600	Applied Anatomy	68	52	12	24	84	240	24
RP 600	Reproductive Physiology	30	30	20	60	30	170	17
PH 600	Clinical Physiology	85	45	30	90	30	280	28
CP 600	Clinical Pharmacology	107	58	25	90	30	310	31
MI 600	Microbiology & Immunology	104	54	17	100	45	320	32
GP 600	Gynaecologic Pathology	72	72	14	50	72	280	28
Total		522	341	128	430	339	1760	176

Year 1 Semester 2

Code	Course title	LH	TH	AS	PH	IS	TH	Credits
CL 600	Clinical Approach to Gynaecologic and Obstetric patients	30	20	10	30	20	110	11
PO 600	Preventive Obstetrics	40	20	15	45	20	140	14
BR 600	Breast function and its disorders	60	20	10	50	60	200	20
Total		130	60	35	125	100	450	45

Year 2 Semester I

Code	Course title	LH	TH	AS	PH	IS	Total	Credits
GG 700	General gynaecology	40	40	20	60	80	240	24
GN700	Gynaecologic Neoplasia /oncology	260	160	30	200	200	850	85
Total		300	200	50	260	280	1190	119

Semester 2 Year 2

Code	Course title	LH	TH	AS	IS	PH	TH	Credits
SP700	Problems of sex, marriage and pregnancy subjects	40	40	20	60	80	240	24
DI 700	Dissertation	20	40	30	200	260	550	55
Total Year II		60	80	50	260	340	790	79

Semester 1 Year 3

Code	Course title	LH	TH	AS	IS	PH	TH	Credits
PL 800	Pregnancy and labour abnormalities	120	140	30	120	200	610	61
CC 800	Common complications of pregnancy	120	150	30	120	200	620	62
Total		240	290	60	240	400	1230	123

Semester 2 Year 3

Code	Course title	LH	TH	AS	IS	PH	TH	Credits
AOG 800	Advances in Obstetrics & Gynaecology	80	60	20	60	80	300	30.0
DT800	Dissertation Report presentation and VIVA VOCE	10	10	20	30	20	90	9.0
ME 800	Ethics in Obstetrics and Gynaecology	10	40	5	15	40	110	11.0
Total Year III		100	110	45	105	140	500	50

KEY

LH:	Lecture Hours	AS: Assignment hours
TH:	Tutorial Hours	IS: Independent studies
PH:	Practical or Field work hours	10 Notional Hours= 1 CREDIT

MASTER OF MEDICINE IN SURGERY (MMed SURG)

Objectives of the Programme

To produce highly skilled and competent surgeon with sound scientific principles of international standard required for a specialist in general surgery.

Programme Expected Learning Outcomes

Knowledge	• Apply scientific knowledge of anatomy, physiology, Microbiology pathology and pharmacology and biochemistry relevant to the needs of the surgical patient. • Discover and assess community surgical needs in the community and propose appropriate scientific interventions. • Plan and conduct clinical medical research competently relevant to the needs of the general surgery patient and community
Skills	• Accurately notice the signs for various surgical disorders • Competently perform all general surgical operations
Competences	• Demonstrate competency in the teaching of undergraduate medical students and other allied health cadres • Demonstrate high professional & ethical standards in the course of his professional medical practice in Surgery. • Demonstrate leadership competency in the appropriate or related field of his/her training

Normal learning matrix and Corse Matrix

All courses in this programme are core

Semester 1 Year 1

Code	Course title	LH	T/SH	AS	IS	PH	CH	CU
SN 600	Surgical anatomy	49	44	36	51	140	320	32.0
SP 600	Surgical physiology	51	31	31	37	20	170	17.0
PA 600	Surgical pathology	73	46	46	49	26	240	24.0
ER 600	Epidemiology and Research methods	54	36	38	42	20	190	19.0
MI 600	Microbiology and Immunology	95	61	61	71	33	320	32.0
CP 600	Clinical Pharmacology	70	44	40	57	19	230	23.0
Total		**392**	**262**	**252**	**307**	**258**	**1470**	**147.0**

Semester 2 Year 1

Code	Course title	LH	T/SH	AS	IS	PH	CH	CU
PS 600	Principles of surgery	48	48	48	64	112	320	32.0
UG 600	Urology	48	50	50	66	116	330	33.0
CA 600	Clinical Apprenticeship I	-	-	-	160	120	280	28.0
Total		**96**	**98**	**98**	**290**	**348**	**930**	**93.0**

Semester 1 Year 2

Code	Course title	LH	T/SH	AS	IS	PH	CH	CU
AS 700	Abdominal surgery	72	72	72	96	168	480	48.0
PS 700	Paediatric surgery	48	48	48	64	112	320	32.0
CA 700	Clinical Apprenticeship II	0	0	0	80	200	280	28.0
RP 700	Research Proposal Development	0	4	12	14	20	50	5.0
Total		**120**	**124**	**132**	**254**	**500**	**1130**	**113.0**

Semester 2 Year 2

Code	Course title	LH	T/SH	AS	IS	PH	CH	CU
OT 700	Orthopaedic and Trauma	66	66	66	88	154	440	44.0
AN 700	Anaesthesia	44	44	44	58	100	290	29.0
CA 700	Clinical Apprenticeship III	0	0	0	200	80	280	28.0
RP 700	Research Proposal Development	0	0	0	40	90	130	13.0
Total		**110**	**110**	**110**	**386**	**424**	**1140**	**114.0**

Semester 1 Year 3

Code	Course title	LH	T/SH	AS	IS	PH	CH	CU
TS 800	Thoracic surgery	54	54	54	54	144	360	36.0
HN800	Head and neck surgery	57	57	57	57	152	380	38.0
GY 800	Gynaecology	14	12	14	14	36	90	9.0
CA 800	Clinical Apprenticeship IV	0	0	0	140	140	280	28.0
DC 800	Data Collection	0	0	0	0	240	240	24.0
Total		**125**	**123**	**125**	**265**	**712**	**1350**	**135.0**

Semester 2 Year 3

Code	Course title	LH	T/SH	AS	IS	PH	CH	CU
NS 800	Neurosurgery	54	54	54	54	144	360	36.0
RA 800	Recent advances	52	52	52	52	142	350	35.0
CA 800	Clinical Apprenticeship V	0	0	0	50	140	190	19.0
DT 800	Dissertation Writing	0	4	20	50	76	150	15.0
Total		**106**	**110**	**126**	**206**	**502**	**1050**	**105.0**
GRAND TOTAL							**7070**	**707.0**

KEY	IS: Independent studies
LH: Lecture Hours	PH: Practical or Field work hours
T/SH: Tutorial/Seminar Hours	CH: Contact Hours
AS: Assignment Hours	CU: Credit Units

MASTER OF MEDICINE IN PAEDIATRICS AND CHILD HEALTH (MMed PAED)

Objectives of the Programme

To produce highly skilled and competent Paediatricians with sound scientific principles of international standard required for MMed Paediatrics degree holder.

Program expected learning outcomes

Knowledge	• Comprehend scientific knowledge of Physiology, Biochemistry, Microbiology & Immunology, Clinical Pharmacology, Epidemiology and Research Methods relevant to the needs of paediatric patients. • Comprehend all paediatric problems in the fields of Neonatology, Emergencies in Childhood, Developmental Paediatrics, Infectious Diseases and Tropical Paediatrics, Nutrition and Metabolic Disorders and Storage Diseases, Paediatric cardiology, Paediatric nephrology, Paediatric gastroenterology, Paediatric dermatology, Paediatric endocrinology and Paediatric oncology. • Comprehend laboratory, radiological and endoscopic investigations to reach appropriate diagnosis for specific paediatric patient's management.
Skills	• Apply scientific knowledge of Physiology, Biochemistry, Microbiology & Immunology, Clinical Pharmacology, Epidemiology and Research Methods relevant to the needs of paediatric patients. • Manage competently all paediatric problems in the fields of Neonatology, Emergencies in Childhood, Developmental Paediatrics, Infectious Diseases and Tropical Paediatrics, Nutrition and Metabolic Disorders and Storage Diseases, Paediatric cardiology, Paediatric nephrology, Paediatric gastroenterology, Paediatric dermatology, Paediatric endocrinology and Paediatric oncology. • Discover and assess paediatric medical conditions in the community and propose appropriate scientific interventions. • Apply rationally laboratory, radiological and endoscopic investigations to reach appropriate diagnosis for specific paediatric patients' management. • Apply new innovations in the paediatric medical field and other related fields through continuing education and multidisciplinary interactions.
Attitudes	• Demonstrate high professional & ethical standards in the course of his or her professional medical practice towards patients, colleagues and the community. • Bestow leadership competency in the appropriate or related field of his/her training.
Competences	• Manage competently all paediatric problems in the fields of Neonatology, Emergencies in Childhood, Developmental Paediatrics, Infectious Diseases and Tropical Paediatrics, Nutrition and Metabolic Disorders and Storage Diseases, Paediatric cardiology, Paediatric nephrology, Paediatric gastroenterology, Paediatric dermatology, Paediatric endocrinology and Paediatric oncology. • Demonstrate competency in the teaching of undergraduate medical students and other allied health cadres • Plan and conduct clinical medical research competently relevant to the needs of the medical patient and community

Normal learning Matrix

All courses in this program are core

Semester 1 Year 1

Code	Course title	LH	TH	AS	IS	PH	CH	CU
PY600	Clinical Physiology	85	45	42	78	30	280	28.0
BC600	Clinical Biochemistry	80	30	30	90	30	260	26.0
MI600	Microbiology and Immunology	104	54	35	85	45	320	32.0
CP600	Clinical Pharmacology	107	58	30	90	30	310	31.0
ER600	Epidemiology, Research Methods and Biostatistics	30	24	18	38	80	190	19.0
Total		**406**	**211**	**155**	**381**	**215**	**1,360**	**136.0**

Semester 2 Year 1

Code	Course title	LH	TH	AS	IS	PH	CH	CU
GP600	General Paediatrics and Child Health	80	70	20	144	288	600	60.0
NE600	Neonatology, Paediatric Emergencies and Critical care	74	48	20	80	208	430	43.0
CL600	Clinical Apprenticeship I	-	-	20	70	180	270	27.0
Total		**154**	**118**	**60**	**294**	**676**	**1,300**	**130.0**

Semester 1 Year 2

Code	Course title	LH	TH	AS	IS	PH	CH	CU
NG700	Nutrition and gastroenterology	64	50	20	110	236	480	48.0
PA 700	Pulmonology and allergic disorder	44	34	11	65	166	320	32.0
CL700	Clinical Apprenticeship II	-	-	8	30	112	150	15.0
CD700	Concept development			20	50	160	230	23.0
Total		**108**	**84**	**59**	**255**	**674**	**1,160**	**116.0**

Semester 2 Year 2

Code	Course title	LH	TH	AS	IS	PH	CH	CU
CH700	Cardiology and Haemato-oncology	120	62	30	146	352	710	71.0
CL700	Clinical Apprenticeship III	-	-	20	76	174	270	27.0
PD700	Proposal Development	-	-	20	30	130	180	18.0
Total		**120**	**62**	**70**	**252**	**656**	**1,160**	**116.0**

Semester 1 Year 3

Code	Course title	LH	TH	AS	IS	PH	CH	CU
NR800	Neurology, metabolic disorders and endocrinology	130	70	30	144	338	720	72.0
PN800	Paediatric nephrology	19	6	8	16	34	80	8.0
RA800	Paediatric rheumatology and autoimmune condition	37	12	8	40	78	170	17.0
CL800	Clinical Apprenticeship IV	-	-	16	60	184	260	26.0
DC800	Data collection	-	-	-	-	180	180	18.0
Total		**186**	**88**	**62**	**260**	**814**	**1,410**	**141.0**

Semester 2 Year 3

Code	Course title	LH	TH	AS	IS	PH	CH	CU
ID800	Infectious Diseases and Tropical Paediatrics	86	50	20	94	280	530	53.0
CL800	Clinical Apprenticeship V	-	-	16	70	224	310	31.0
DT800	Dissertation	-	-	-	20	160	180	18.0
Total		**86**	**50**	**36**	**184**	**664**	**920**	**92.0**

KEY

LH:	Lecture Hours	IS:	Independent studies
TH:	Tutorial Hours	CH:	Contact Hours
PH:	Practical or Field work hours	CU:	Credit Unit
AS:	Assignment Hours		

MASTER OF MEDICINE IN OBSTETRICS AND GYNAECOLOGY (MMed OBGYN)

Objectives of the Programme

The main objective of this programme is to train suitable candidates to become highly skilled and competent Obstetricians and Gynaecologists. On successfully completion of the training the graduate in MMed Obstetrics and Gynaecology is expected to be able to work independently with sound scientific principles of international standard required for a specialist in Obstetrics and Gynaecology, and have the knowledge, skills, attitude and ethics, related to the profession.

Program expected learning outcomes

Knowledge	• Recognize basic scientific knowledge underlying different obstetrics and gynaecology disorders • Analyse structure, functioning, development and growth for the normal and abnormal reproductive systems. • Understand basic concepts of laboratory procedures necessary for diagnosis and treatment of obstetric and gynaecological disorders • Identify and discuss common problems related to normal and abnormal labour • Describe different management modalities for obstetrics and gynaecological problems
Skills	• Assess patients clinically and interpret laboratory and/or radiological investigations to reach the right diagnosis. • Manage appropriately obstetrics/gynaecological conditions • Perform surgical procedures in obstetrics and gynaecology • Interpret research findings that are necessary to improve patient care in obstetrics/gynaecology.
Competences	• Demonstrate ability to prioritize professional duties effectively when faced with multiple patients and problems • Practice in a manner ethically, morally and culturally sensitive to clients' needs • Communicate with other health care providers

Normal learning Matrix

All courses in this program are core

Year/ Semester	Code	Course title	LH	TS	IS	PH	AS	TH	Credits
Year 1	CA 600	Clinical anatomy	36	18	18	72	6	150	15.0
Semester 1	MI 600	Microbiology & Immunology	36	18	12	9	18	93	9.3
	AP 600	Advanced Pathology	18	18	9	18	6	69	6.9
	PH 600	Clinical Physiology	36	18	18	18	10	100	10.0
	ER 600	Epidemiology, Biostatistics & Research Methodology	18	18	18	36	10	100	10.0
	CP 600	Clinical Pharmacology	54	18	18	18	10	118	11.8

Semester Total			**198**	**108**	**93**	**171**	**60**	**630**	**63.0**
Year 1 **Semester 2**	BT 600	Biomechanics of Trauma	9	9	25	144	9	**196**	**19.6**
	UT 600	Upper Limb Trauma	9	9	26	144	9	**197**	**19.7**
	LT 600	Lower Limb and Pelvic Trauma	9	9	27	144	9	**198**	**19.8**
	ST 600	Soft Tissues Trauma	9	9	30	144	9	**201**	**20.1**
Semester Total			**36**	**36**	**108**	**576**	**36**	**792**	**79.2**
Year 2 **Semester 1**	AB 700	Adult Orthopedics of Bones and Joints	9	12	30	126	10	**187**	**18.7**
	ND 700	Adult Orthopedics Neuromuscular Diseases	9	12	30	126	10	**187**	**20.1**
	AM 700	Adult Orthopedics Musculoskeletal Tumors	9	9	30	144	9	**201**	**18.4**
	HF 700	Adult Orthopedics of Hand, Foot & Spine	9	9	30	126	10	**184**	**10.4**
	RP 700	Research proposal preparation	0	9	27	54	14	**104**	**10.4**
Semester Total			**36**	**51**	**147**	**576**	**53**	**863**	**86.3**
Year 2 **Semester 2**	MD 700	Musculoskeletal Development	9	9	45	126	20	**209**	**20.9**
	CD 700	Congenital Deformities	9	9	45	126	18	**207**	**20.7**
	PN 700	Paediatrics Neuromuscular Diseases	9	9	45	126	16	**205**	**20.5**
	GS 700	General surgery & Neurosurgery	9	9	45	126	18	**207**	**20.7**
Semester Total			**36**	**36**	**180**	**504**	**72**	**828**	**82.8**
Year 3 Semester 1	PT 800	Paediatrics Trauma	18	18	36	126	18	**216**	**21.6**
	DC 800	Data collection for Dissertation	-	-	36	450	-	**486**	**48.6**
Semester Total			**18**	**18**	**72**	**576**	**18**	**702**	**70.2**
Year 3 **Semester 2**	XR 800	External rotations	9	9	72	360	15	**465**	**46.5**
	DD 800	Dissertation writing and defence	9	9	180	144	21	**363**	**36.3**
Semester Total			**18**	**18**	**252**	**504**	**36**	**828**	**82.8**
GRAND TOTAL			**378**	**267**	**852**	**2907**	**275**	**4643**	**464.3**

KEY

LH: Lecture Hours	AS: Assignment hours
TH: Tutorial Hours	IS: Independent studies
PH: Practical or Field work hours	10 Notional Hours= 1 CREDIT

MASTER OF MEDICINE IN ANATOMICAL PATHOLOGY (MMed AP)

Objectives of the Programme

The Master of Medicine in Anatomical Pathology will produce a competent pathologist who is able to:

- Provide expertise professional diagnostic services in surgical pathology and cytopathology.
- Be competent in performing Clinical and Forensic autopsies
- To produce trainers in histology, cytology and diagnostic molecular biology in Tanzanian institutions and elsewhere.
- To produce competent graduates who can conduct high quality research that can translate into policy.
- Be a good researcher in Pathology and other health related fields
- Have the ability to manage a laboratory and/or a health care facility
- To offer consultancy in pathology, laboratory medicine and general medical services including running a tumour board and cancer registry

Programme learning outcomes
At the end of the programme the student should be able to:

Competence Domain	Learning outcomes
Knowledge	• Discuss principles of pathology • Discuss principles forensic and clinical autopsy • Review epidemiology and biostatistics in relation to pathology • Describe entrepreneurship in relation to pathology and laboratory medicine.
Skills	• Evaluate the impact of the existing national diagnostics guidelines in pathology and laboratory medicine and precisely advice on improving them. • To interpret histopathological and cytopathological samples with use of cytochemical and immunohistochemical stains • Develop, execute and analyse standard operating procedures (SOPs) for quality control and assurance (QC&QA) in pathology and laboratory medicine. Develop research questions and design research methods for answering them

Competences	• Plan and manage health, industrial and medical research laboratories. • Perform and interpret results of relevant laboratory diagnostic tests. • Integrate epidemiological and statistical skills in planning and analysing health researches. • Integrate pathology and laboratory medicine in cancer control programmes. • Practice with high professionalism, with good relationship with patients, community, teaching skills and maintaining good practices • Integrate clinical pathology, laboratory medicine, and medical research field. • Work in the system in the context of health care • Prepare fundable international research proposal. • Train health professionals in the field of pathology and laboratory medicine in Tanzanian medical universities and elsewhere.

Normal learning matrix and course matrix with its total credit and hours

Code	Course title	LH	TH	AS	IS	PH	CH	Credits
Year 1 Semester 1								
MP 600	Applied Principles of Pathology	36	12	12	48	12	120	12
DM 600	Diagnostic Microbiology and Immunology	36	12	12	48	12	120	12
ER 600	Epidemiology, Biostatistics & Research Methods	36	18	16	48	12	130	13
HI 600	Histology	18	18	10	24	54	124	12.4
BP 600	Bioethics and Professionalism.	18	18	4	4	0	44	4.4
BB 600	Biosafety and Biosecurity.	18	18	4	4	0	44	4.4
Semester total		**162**	**96**	**58**	**176**	**90**	**582**	**58.2**
Year 1 Semester 2								
SS 600	Systemic Pathology and Surgical Pathology I	36	54	36	60	144	330	33
GM 600	Genetics and Molecular Biology	36	36	36	18	72	198	19.8
TP 600	Basic laboratory techniques in pathology and cytology	36	36	24	36	90	222	22.2
Semester total		**108**	**126**	**96**	**114**	**306**	**750**	**75**
	Year 2 Semester 1							
CP 700	Chemical Pathology	18	18	36	30	18	120	12
HE 700	Hematology	18	18	48	48	54	186	18.6
RD 700	Research and Dissertation I	0	18	10	40	90	158	15.8
Semester total		**36**	**54**	**94**	**118**	**162**	**464**	**46.4**
Year 2 Semester 2								
SS 700	Systemic Pathology and Surgical Pathology II	26	52	42	60	130	310	31
DT 700	Diagnostic Molecular / Immunohistochemical and Investigative Techniques	10	20	30	54	50	164	16.4
RP 701	Research and Dissertation II	0	0	10	40	90	140	14
Semester total		**36**	**72**	**82**	**154**	**270**	**614**	**61.4**
Year 3 Semester 1								
PT 800	Pathology of Tropical diseases.	36	36	18	24	90	204	20.4
FM 800	Forensic and medical Autopsy.	18	18	24	36	126	222	22.2
DA 800	Data Collection and Analysis	0	0	0	36	180	216	21.6
Semester total		**54**	**54**	**42**	**96**	**396**	**642**	**64.2**

Year 3 Semester 2								
SP 800	Senior surgical pathology practice	18	36	36	44	126	260	26
ME 800	Laboratory Management & Entrepreneurship	18	18	12	10	18	76	7.6
DD 800	Dissertation writing and defence	0	9	0	36	189	234	23.4
	Semester total	**36**	**63**	**48**	**90**	**333**	**570**	**57**
Grand Total		**432**	**465**	**420**	**748**	**1557**	**3622**	**362.2**

KEY

LH:	Lecture Hours	IS:	Independent studies
TH:	Tutorial Hours	CH:	Contact Hours
PH:	Practical or Field work hours	CU:	Credit Unit
AS:	Assignment Hours		
10 Notional Hours= 1 Credit			

MASTER OF MEDICINE IN RADIOLOGY (MMed RAD)

Objectives of the Programme

The MMed in Radiology programme is intended to achieve the following:

- To produce graduates capable of integrating biomedical sciences knowledge in performing and reporting specialist radiological exams and procedures.
- To produce graduates that can competently perform and report specialist radiological exams and procedures safely.
- To produce skilled graduates capable of developing, evaluating and executing imaging guidelines in relation to specialist radiological exams and procedures.
- To produce competent graduates who can conduct high quality research that can translate into policy.
- To produce professionals vested with moral and ethical values.

Programme Expected Learning outcomes and its associated teaching/learning activities and assessment criteria
At the end of this programme student will be able to:

At the end of this programme student will be able to:

Qualification category	Postgraduate	
Qualification type	MMed in Radiology	
Competences	**Expected Learning Outcomes**	**Assessment Criteria**
Knowledge	On the successful completion of the course the graduate specialist should be able to analyse: iv. Scientific knowledge of radiology/ imaging. v. Techniques for radiological/imaging examinations and procedures. vi. Risks, complications and management of all radiological examinations and procedures.	• Multiple Choice Questions (MCQs) • Matching Item Questions • Short Answer Questions • Short and Long Essays • Viva voce
Skills	To be able to: i. Perform radiological/imaging examinations and procedures. ii. Interpret radiological/imaging examinations and procedures. iii. Report on radiological/imaging examinations and procedures, and communicate results. iv. Manage radiological/imaging equipment. v. Conduct patient triage.	• Clinical and Practical Examinations (OSPE) • Number of Clinical Cases Completed • Clinical Register Audit

	vi. Build a teamwork spirit within and outside the Department. vii. Conduct radiological/ imaging research studies for evidence. viii. Teach others on relevant science and art of radiology/ imaging.	
Attitudes	To be able to: ii. Promote compassionate care to clients and colleagues. iii. Exhibit collaborative spirit within and outside the Department. iv. Attend conflicts in a friendly manner. v. Value radiology/ imaging professionalism by following stipulated ethical standards.	• Continuous observation elements of behaviour • Global Rating (see Logbook)

Normal learning matrix and course matrix with its total credit and hours

Code	Course title	LH	TS	AS	IS	PH	TH	Credits
Year 1 Semester 1								
AI600	Imaging Anatomy	17	17	17	119	102	272	27.
PA600	Pathology	17	17	17	117	85	253	25.3
IP600	Imaging Physics and Radiation Protection	17	17	17	54	17	122	12.2
IT600	Imaging Informatics & Technology	17	17	10	7	34	85	8.5
ME600	Medical Ethics and Professionalism	17	17	17	7	10	68	6.8
Semester total		**85**	**85**	**78**	**304**	**248**	**800**	**80**
Year 1 Semester 2								
RP600	Radiological Procedures & Techniques	17	17	7	85	191	317	31.7
EI600	Emergency Imaging	17	17	7	85	170	296	29.6
EP600	Epidemiology, Biostatistics & Research Methods	34	34	17	17	17	119	11.9
TM600	Teaching Methodology	17	17	7	7	20	68	6.8
Semester total		**85**	**85**	**38**	**194**	**398**	**800**	**80**
	Year 2 Semester 1							
CI700	Chest Imaging	17	17	17	50	136	237	23.7
AI700	Abdominal Imaging	17	17	10	50	153	247	24.7
UI700	Urogenital Imaging	17	17	17	50	119	220	22.0
RD700	Research Design	7	7	10	7	68	99	9.9
Semester total		**58**	**58**	**54**	**157**	**476**	**803**	**80.3**
Year 2 Semester 2								
BI700	Breast Imaging	17	17	17	50	136	237	23.7
OG700	Obstetrics and Gynaecological Imaging	17	17	17	50	153	254	25.4
RF700	Research Fieldwork	7	7	7	7	289	317	3.17
Semester total		**41**	**41**	**41**	**107**	**578**	**808**	**80.8**

Year 3 Semester 1								
CV800	Cardiac and Vascular Imaging	17	17	17	50	153	254	25.4
MS800	Musculoskeletal Imaging	17	17	17	50	170	271	27.1
NR800	Neuroradiology	17	17	17	50	170	271	27.1
Semester total		**51**	**51**	**51**	**150**	**493**	**796**	**79.6**
Year 3 Semester 2								
HN800	Head and Neck Imaging	17	17	7	50	153	244	24.4
OR800	Oncological and Radionuclide Imaging	34	10	7	50	136	237	23.7
PI800	Paediatric Imaging	17	17	17	50	221	322	32.2
	Semester total	**68**	**44**	**31**	**150**	**510**	**803**	**80.3**
Year 4 Semester 1								
IR900	Interventional Radiology	17	36	36	50	102	241	24.1
IN901	Integrated Imaging Rotation I	7	7	7	100	204	325	32.5
ER900	External Rotation	0	0	0	0	240	240	24.0
	Semester total	**24**	**43**	**43**	**150**	**546**	**806**	**80.6**
Year 4 Semester 2								
IN902	Integrated Imaging Rotation II	7	7	7	250	380	651	**65.1**
RD900	Research Dissemination	7	7	7	17	102	140	**14.0**
	Semester total	**14**	**14**	**14**	**267**	**482**	**791**	**79.1**
Grand Total		**426**	**421**	**350**	**1479**	**3731**	**6407**	**640.7**

KEY

LH:	Lecture Hours	IS:	Independent studies
TS:	Tutorial/ Seminar	TH:	Total Hours
PH:	Practical Hours		
AS:	Assignment Hours		

MASTER OF MEDICINE IN EAR, NOSE AND THROAT (MMed ENT)

Objectives of the Programme

The MMed ENT programme is intended to achieve the following:

- To produce graduates capable of integrating biomedical sciences knowledge in managing patients with ENT diseases
- To produce graduate that can competently manage patients with ENT diseases
- To produce skilled graduates capable of developing, evaluating, and executing management guidelines in relation to ENT diseases.
- To produce competent graduate who can conduct high quality research that can translate into policy.
- To produce professionals vested with moral and ethical values

At the end of this programme student will be able to

Qualification category		Postgraduate	**Assessment Criteria**
Qualification type		MMed	MCQ Matching Item Questions Essay Continuous Assessment End of Semester Examination Clinical case Presentation assessment Log book Viva voce
Levels		9	
Learning outcomes	Knowledge	On the successful completion of the course the graduate specialist should be able to: i) Comprehend scientific knowledge of Physiology, Anatomy, Microbiology & Immunology, Pathology, Clinical Pharmacology, Epidemiology and Research Methods relevant to the needs of Ear, Nose, Throat, Head and Neck patients. ii) Comprehend all Ear, Nose, Throat, Head and Neck medical problems. iii) Comprehend laboratory, radiological and endoscopic investigations to reach appropriate diagnosis for specific Ear, Nose, Throat, Head and Neck patient's management.	
	Skills	i) Apply scientific knowledge of Physiology, Anatomy, Microbiology & Immunology, Pathology, Clinical Pharmacology, Epidemiology and Research Methods relevant to the needs of Ear, Nose, Throat, Head and Neck patients. ii) Manage competently all Ear, Nose, Throat, Head and Neck surgical and medical conditions prevalent in the hospitals and in the community. iii) Discover and assess Ear, Nose, Throat, Head and Neck medical conditions in the community and propose appropriate scientific interventions. iv) Apply rationally laboratory, radiological	

		and endoscopic investigations to reach appropriate diagnosis for specific Ear, Nose, Throat, Head and Neck patients' management. v) Apply new innovations in the Ear, Nose, Throat, Head and Neck medical field and other related fields through continuing education and multidisciplinary interactions. vi) Teach Ear, Nose and Throat and Head and Neck Surgery vii) Carry out research in the hospitals and the community in relation to Ear, Nose and Throat and Head and Neck Surgery health.	
	Attitude	i) Demonstrate high professional & ethical standards in the course of his or her professional medical practice in Ear, Nose, Throat, Head and Neck surgery towards patients, colleagues and the community. ii) Bestow leadership competency in the appropriate or related field of his/her training.	
	Competences	i) Manage competently all Ear, Nose, Throat, Head and Neck surgical and medical conditions prevalent in the hospitals and in the community. ii) Demonstrate competency in the teaching of undergraduate medical students and other allied health cadres pertaining to Ear, Nose, Throat, Head and Neck surgical and medical conditions. iii) Plan and conduct clinical medical research competently relevant to the needs of the Ear, Nose, Throat, Head and Neck patient and community.	

Normal learning matrix and course matrix

Code	Course title	LH	TH	AS	IS	PH	CH	Credits
Year 1 Semester 1								
AA 600	Advanced Anatomy of Ear, Nose, Throat, Head and Neck	18	18	18	36	90	180	18
AP 600	Advanced Pathology of Ear, Nose, Throat, Head and Neck	18	36	18	36	18	126	12.6
MI 600	Microbiology and Immunology	36	36	24	60	18	174	17.4
ER 600	Epidemiology, Biostatistics & Research Methods	18	36	16	36	18	124	12.4
PH 600	Clinical Physiology	18	18	16	34	18	104	10.4
CP 600	Clinical Pharmacology	18	36	16	36	18	124	12.4
Semester Total		**126**	**180**	**108**	**238**	**180**	**832**	**83.2**

Year 1 Semester 2								
AT600	Applied Anatomy and physiology of Ear Nose and Throat	18	18	36	48	144	264	26.4
EE 600	Ear Nose and Throat Emergencies	36	18	36	48	126	264	26.4
PS 600	Principles of Surgery	18	18	24	18	90	168	16.8
TD 600	Temporal bone Anatomy and Dissection	18	18	24	24	72	156	15.6
ME 600	Medical Ethics and Professionalism	18	18	4	4	0	44	4.4
Semester total		**108**	**90**	**124**	**142**	**432**	**896**	**89.6**
Year 2 Semester 1								
PR 700	Paediatric Rhinology (Rhinology I)	18	18	36	30	90	**192**	19.2
PO 700	Pediatric Otology	18	36	36	60	126	**276**	27.6
PL 700	Pediatric Laryngology Head and Neck	18	36	36	60	126	**276**	27.6
Semester total		**54**	**90**	**108**	**150**	**342**	**744**	**74.4**
Year 2 Semester 2								
AS 700	Audiology and Speech Pathology	18	18	24	48	72	180	18.0
RN 700	Rhinology II: Inflammation, Trauma and Neoplasms	36	36	36	54	180	342	34.2
RP 700	Research Proposal development	0	0	10	40	90	140	14.0
Semester total		**54**	**54**	**70**	**142**	**342**	**662**	**66.2**
Year 3 Semester 1								
IH 800	Inflammatory conditions of the Head and Neck	18	36	18	24	90	186	18.6
TH 800	Traumatic conditions of the Head and Neck	36	36	24	36	126	258	25.8
NH 800	Neoplastic conditions of the Head and Neck	18	18	24	36	90	186	18.6
DC 800	Data collection	0	0	0	36	144	180	18.0
Semester total		**72**	**90**	**66**	**132**	**450**	**810**	**81**
Year 3 Semester 2								
OI 800	Otology and Neurotology: Inflammatory conditions	18	18	24	36	90	186	18.6
OT 800	Otology and Neurotology: Traumatic conditions	18	36	36	44	126	260	26.0
ON 800	Otology and Neurotology: Neoplastic conditions	18	18	36	44	90	206	20.6
DD 800	Dissertation writing and defense	0	9	0	36	189	234	23.4
Semester total		**54**	**81**	**96**	**160**	**495**	**886**	**88.6**
Grand Total		**468**	**585**	**572**	**964**	**2241**	**4830**	**483**

KEY:

LH:	Lecture Hours
TH:	Tutorial Hours
IS:	Independent studies
AS:	Assignment Hours
PH:	Practical or Field work hours
C:	Credits
CH:	Contact hours: 10 Notional Hours= 1 CREDIT

M.Med Dissertations

Procedures and examination of the Dissertation is as stipulated in the CUHAS guidelines for Higher degrees.

MASTER OF PUBLIC HEALTH (MPH)

MASTER OF PUBLIC HEALTH (MPH)

BACKGROUND

Looking at the present needs in the country both at central level and at the private sector demands for public health specialists, prompted CUHAS to start a Master of Public Health Programme (MPH). This initiative was triggered by the National Health Policy through the Health Sector Reform. The Reform demands having highly qualified public health manpower to man and run District and Regional health services. These demands are not only in the governing institutions but also the NGO's and community health programmes and projects; all of these are expressing need to have well trained manpower in the health sector.

As a result of the above demands, CUHAS started a one-year general MPH programme. This programme will be conducted in three (3) semesters.

GOALS OF THE PROGRAMME

Is to provide and develop knowledge and skills necessary in promoting public health with a focus on Public Health in developing countries. The programme is suitable for District, regional, and health managers at different levels, it will also serve for Health Managers working with NGOs, training institutions and those managing Health programmes and Health projects in developing countries.

OBJECTIVES

Broad Objectives

1. At the end of the course the candidates are expected to be conversant with the acquired skills and knowledge and be able to deliver the same material as needed in Health Service Delivery.
2. Develop health Programmes and Projects, which aim at promoting and improving public health.
3. The candidates shall be able to control epidemic in their area of work and when asked to do so.
4. Be able to train in the area of Public Health all those who need specialization.

Specific Objectives:

In order to achieve the above objectives the candidate should be able to:

I. Apply epidemiological and statistical skills in analysing and planning health needs for the community.
II. Evaluate different health strategies and interventions used in the control of diseases.
III. Describe and analyse health services and organizational structures for an effective health management system
IV. Manage or participate in environmental health control programs and Disaster management
V. Train health staff at different levels ie medical and paramedical schools
VI. Develop cost effective health intervention programs
VII. Develop research proposal and Projects which focus on specific Health problems
VIII. Design appropriate methodology in the control of communicable diseases and epidemics.

Programme expected learning outcomes

Knowledge	The candidate should have adequate knowledge in integrating different disciplines learnt in MPH in addressing the core functions of public health at different levels. More specific knowledge is expected in; a) Application of epidemiological and statistical skills in analysing and planning health needs for the community. b) Evaluation of different health strategies and interventions used in the control of diseases. c) Describing and analysing health services and organizational structures for an effective health management system. d) Managing and/or participating in environmental health control programs and disaster management. e) Developing cost effective methods for screening and surveillance for health outcomes related to Public Health Issues. f) Developing research proposal and projects which focus on specific Health problems. g) Designing appropriate methodology in the control of communicable diseases and epidemics.
Skills	Graduates of the MPH at CUHAS are expected to have skills to be able, a) *To assess the health needs of the community.* To systematically collect, assemble, and make available information on the public health status of the community, in cooperation with others, including statistics on health status, community health needs, environmental health, epidemiologic, and other studies of health problems. b) *To investigate the occurrence of health effects and health hazards in the community.* To systematically develop in collaboration with others in the community, more detailed information on the magnitude of a health problem, duration, trends, location, population at risk, and how best to proceed to prevent or control the problem. c) *To analyze the determinants of identified health needs.* This is the process of examining etiologic, risk, and contributing factors that precede and contribute to specific health problems or reduced health status in the community. Identifying these factors helps in working with the community in planning intervention efforts for prevention or control. d) *To advocate for public health, build constituencies, and identify resources in the community.* This is the process of generating support among constituent groups that address community health needs and issues, establishing collaborative relationships between a public health agency and the public it serves, the government body it represents, and other health and human-related organizations in the community. e) *To prioritize among health needs.* To facilitate a community process to rank health needs according to their importance, the magnitude, the seriousness of the consequences, economic impact and community readiness or the ability to prevent or control the problem. f) *To plan and develop policies to address priority health needs.* This is the process by which agencies, working with community constituents and other groups, facilitate the formulated goals and objectives to meet the priority health needs of the community, identify a course of action to achieve the goals and objectives in a way that fosters community involvement and ownership, and is responsive to local needs.

	g) *To manage resources and develop organizational structure.* To acquire, allocate influence, resources (people, facilities, and equipment) and to encourage or enable them to meet priority community health needs in the best way possible. h) *To implement public health programs. Work with other organizations, agencies and individuals to assure the implementation of programs in the community that fit community priorities. Work with the community to change community policy, practice or mores.* i) *To evaluate health programs and provide quality assurance.* This is a process of continuous inquiry to determine the efficiency and effectiveness of efforts so that corrections can be made to improve activities and outcomes. j) *To inform and educate the public on health issues of public health importance.* This is the process of informing the community about health problems, the availability of services; gaining the attention of individuals, high-risk groups, and constituents concerning public health issues; and providing health education to help develop beliefs, attitudes, and skills conducive to good individual and community health.
Competences	The candidate should be able to demonstrate and prove their competencies; a) In responding to different public health needs at various organization levels. b) In analyzing the determinants of health and diseases. c) In transforming evidence-based data into planning of health services and programs. d) In effective communication and negotiation skills on public health issues.

Course Descriptions per year

(*Semester 1 Year 1*)

Code	Course Title	LH	T/SH	AS	IS	PH	TH	Credits
MPH 601	Demography, Biostatistics and Determinants of Diseases	80	20	20	80	50	250	25
MPH 602	Review of Communicable and Non Communicable Diseases and Nutrition	80	10	20	70	30	210	21
MPH 603	Environmental & Occupational Health and Disaster Preparedness	60	20	20	80	90	270	27
MPH 604	Reproductive Health and Foundation of Public Health	50	18	20	50	22	160	16
Total		**270**	**68**	**80**	**280**	**192**	**890**	**89**

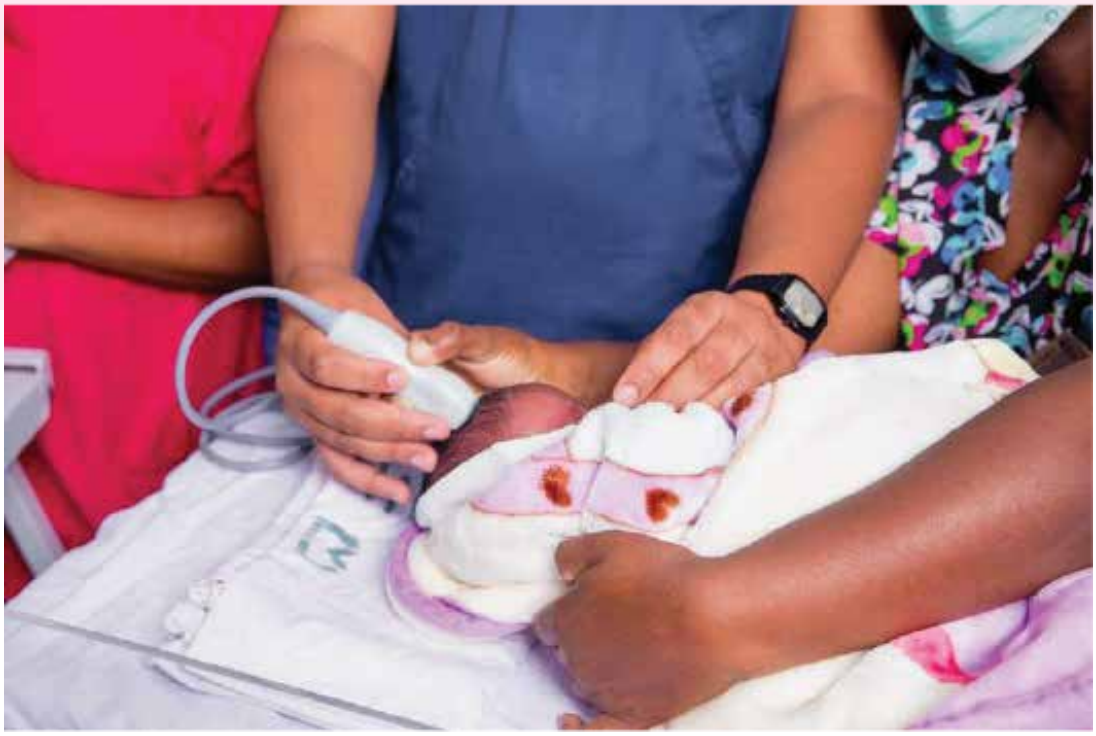
(***Semester 2 Year 1***)

Code	Course Title	LH	T/SH	AS	IS	PH	TH	Credits
MPH605	Health Planning and Management	55	30	25	50	50	210	21
MPH606	Health System Delivery and Health Management Systems	45	20	20	35	20	140	14
MPH607	International and Global Health, and Family Health	40	35	30	30	35	170	17
MPH608	Research Methodology and Project Design	55	20	22	63	150	310	31
MPH609	Health Promotion and Health Ethics	36	20	15	20	29	120	12
MPH610	Dissertation Work	-	20	-	60	150	230	23
Total		**231**	**145**	**112**	**258**	**434**	**1180**	**118**

KEY:

LH: Lecture Hours
T/SH: Tutorial/ Seminar Hours
PH: Practical or Field work hours
AS: Assignment Hours
IS: Independent studies
10 Notional Hours= 1 CREDIT

MASTER OF SCIENCE IN PAEDIATRIC NURSING (MSc. PN)



MASTER OF SCIENCE IN PAEDIATRIC NURSING (MSc.PN)

BACKGROUND

Master degree in Paediatric Nursing (MSc.PN) offers full time training with one exit level at the end of the program. The main goals of the program is to conduct a course of professionals and scholars concerned with caring of neonates, infants and children who will be responsive to the dynamic and rapidly changing world known to affect children's development. Its' learners are expected have necessary knowledge skills and competencies which enable them to become analytical advisors, scholars and effective managers and leaders in their field of paediatric nursing.

Expected Learning Outcomes

At the end of the program the MSc.PN graduate will have: -

Knowledge	To be able to: i. Analyze critically theories, concepts and principles of human growth and development in the provision of paediatric nursing care to children. ii. Integrate effectively basic sciences knowledge and understanding in the care of children with diverse health conditions including those with special needs iii. Appraise theories and principles of nursing during provision of care to children with medical, surgical conditions; both in acute, chronic and during emergency situations. iv. Apply theories and models of community paediatric nursing promotion activities for children in healthcare and community settings v. Adapt appropriate evidences in paediatric nursing profession for provision of quality services to neonates infants and children vi. Analyze major global health issues, policies and structures that affect children's health and health care vii. Apply ethical knowledge and understanding when interacting with children and families from diverse social, economic and cultural backgrounds.
Skills	To be able to i. Design paediatric nursing care plan models appropriate for nursing of neonates, infants and children with diverse health conditions and situations ii. Manage effectively implementation of care to neonates infants and children with medical, surgical conditions; both in acute, chronic and during emergency situations including children with special needs. iii. Coordinate paediatric nursing care activities using available resources in different work settings iv. Apply scientific principles in designing, conducting, disseminate findings on research related to children's health v. Use evidence based paediatric nursing practice to solve neonatal, infants and children's health problems vi. Utilize appropriate measurement tools to measure growth and

	development of neonates, infants and children vii. Teach colleagues, junior staff, parents and families on issues pertaining to children's' health promotion and disease prevention viii. Demonstrate morality and high ethical standards during provision services to children and families from different social, economic and cultural backgrounds
Competencies	To be able to: i. Appraise health research for policy advise in provision of quality paediatric nursing care ii. Present research findings in scientific conferences, policy makers' meetings and in other professional peers 'audiences. iii. Demonstrate creativity and independency when dealing with care of complex paediatric nursing issues, conditions and situations arising in her /his mandate. iv. Adapt nursing, medical and research ethical principles in dealing with legal and practical problems facing nursing professionals and the healthcare system v. Comply with compassionate care principles to the sick and well neonates, infants, children and families from diverse backgrounds vi. Set quality assurance standards in her /his area of work in line with the existing systems vii. Demonstrate sensitivity of others' views and opinions in issues related to the pediatric nursing profession

Minimum credits for the program is 190 to be delivered in two years

PURPOSE OF THE PROGRAMME

The MSc.PN program purpose is to

i. Develop a specialized professional nurses in the field of pediatric nursing for improved participation and operationalization of health policy
ii. Promote pediatric nursing knowledge skills and competencies among learners for future employers' and community satisfaction.
iii. Entice self-realization, team work, problem solving, analytical and decision making skills that enable graduates to perform efficiently and aspire for lifelong learning
iv. Promote moral, legal and high ethical conduct among pediatric nursing professionals.

ORGANISATION OF THE PROGRAMME

The MSc.PN degree programme offered at CUHAS will be by course work and dissertation. The programme will be for two years, divided into three semesters of 60/70 credits each. The course work consists of 16 courses/modules as indicated in the structure of the program below

STRUCTURE OF THE PROGRAMME

SEMESTER 1

Code	Course Name	LH	S&AS H	PH	ISH	Total Hrs	Total Credits
BC600	Principles of Biochemistry	30	30	20	20	100	**10**
CP600	Clinical Pharmacology	40	40	40	30	150	**15**
EB600	Epidemiology and Biostatistics	30	30	30	40	130	**13**
PH600	Clinical Physiology	40	30	25	20	115	**11.5**
MI 600	Microbiology and infections in Children	20	30	40	30	120	**12**
Total		**160**	**160**	**155**	**140**	**615**	**61.5**

SEMESTER 2

Code	Course Name	LH	S&ASH	PH	ISH	Total Hrs	Total Credits
PE600	Paediatric emergencies	30	40	50	20	140	**14**
PS600	Nursing in Paediatric Surgery and orthopaedics	20	20	60	20	120	**12**
GD600	Essentials of Growth and Development	20	10	30	10	70	**7**
EP600	Ethics, Principles and Practices of paediatric nursing	20	20	50	10	100	**10**
NP600	Neuropsychiatry and Clinical psychology	40	30	20	10	100	**10**
NN600	Nursing in Neonatology	30	20	50	20	120	**12**
Total		**160**	**140**	**260**	**90**	**650**	**65**

SEMESTER 3

Code	Course Name	LH	S&AS H	PH	ISH	Total Hrs	Total Credits
PO600	Nursing in Paediatric haematology and oncology	20	10	40	10	80	**8**
PD600	Specific paediatric conditions and Diseases	30	10	40	10	90	**9**
PR600	Chronic Diseases and Paediatric rehabilitation	30	30	20	10	90	**9**
NM600	Nutrition and Malnutrition	20	20	30	10	80	**8**
RD600	Research Design	30	30	*220	70	350	**35**
Total		130	110	100+*220	110	690	**69**

SEMESTER 4

Dissertation	600	**60**
Grand Total Hrs	**2555**	**255.5**

KEY:

LH:	Lecture Hours
S&AsH:	Seminar and Assignment Hours
PH:	Practical hours
IS:	Independent studies

DISSERTATION

Students shall prepare a dissertation on a subject of paediatric nursing related topics. The dissertation shall be in form of research project.

NOTE:

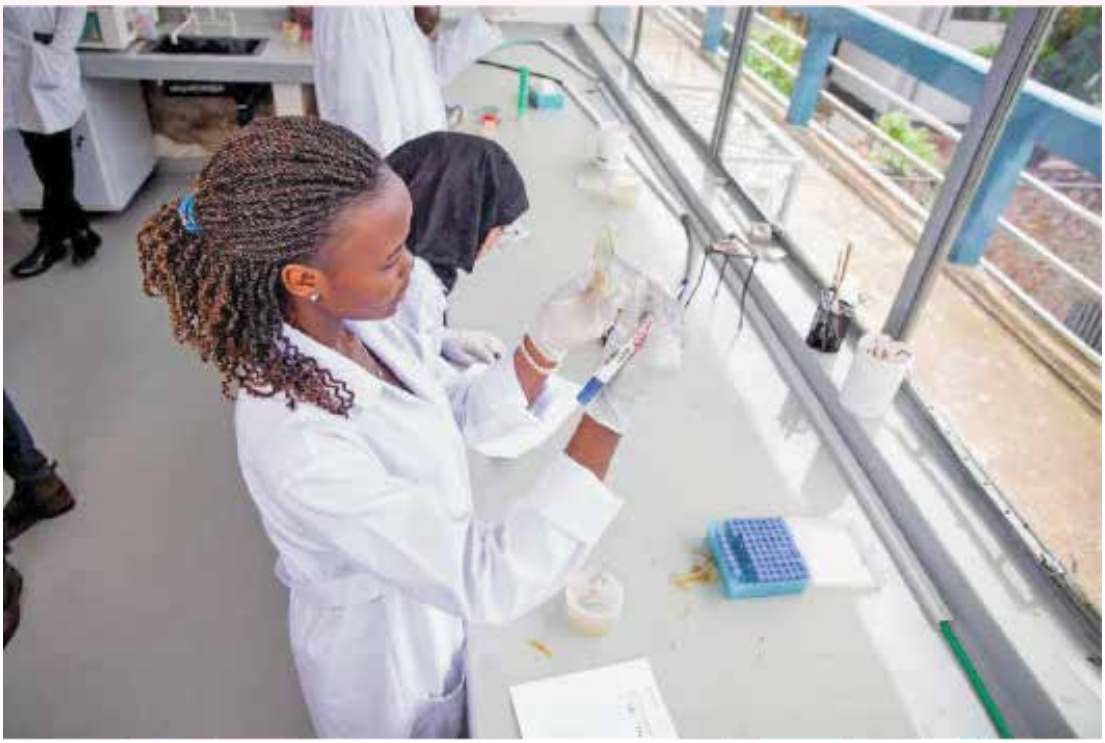
After semester 3 –Students will be given an opportunity to complete their field work research projects write up and submission of their dissertations before graduation.

A maximum of two months will be allowed before submission of their MSc.PN degree dissertations and defence.

MSc PN Dissertations

Procedures and examination of the Dissertation is as stipulated in the CUHAS guidelines for Higher degrees.

MASTER OF SCIENCE IN CLINICAL MICROBIOLOGY AND DIAGNOSTIC MOLECULAR BIOLOGY (MSc. CMDMB)



MASTER OF SCIENCE IN CLINICAL MICROBIOLOGY AND DIAGNOSTIC MOLECULAR BIOLOGY (MSc.CMDMB)

Introduction

The MSc. CMDMB degree is a new programme aimed at producing competent and skilled graduates of international standard through clinical and laboratory apprenticeship. Graduates from this programme are expected to work in public and private hospitals, research institutions, industrial/pharmaceutical sectors and in other organizations.

Objectives of the programme:

- To produce graduates capable of performing clinical microbiology and diagnostic molecular biology in health diagnostics, medical research fields and industrial/pharmaceutical laboratories.
- To produce skilled graduates capable of developing, evaluating and executing standard operating procedures (SOPs)/guidelines for quality control and assurance (QC & QA) in medical, research, academic and industrial/pharmaceutical laboratories.
- To produce competent graduate who can conduct high quality research that can translate into policy.
- To produce graduates with sound knowledge in entrepreneurship in medical diagnostics.
- To produce skilled laboratory professionals vested with moral and ethical values.

Program expected learning outcomes

Knowledge	• Discuss Medical Laboratory Sciences • Review epidemiological and biostatistical principles in relation to Medical laboratory sciences • Describe entrepreneurship in relation to Medical Laboratory Sciences
Skills	• Evaluate the impact of the existing national diagnostics guidelines in clinical microbiology and molecular biology and precisely advice on improving them. • Develop, execute and analyse standard operating procedures (SOPs) for quality control and assurance (QC&QA) in medical, research, academic and industrial laboratories
Attitudes	• Practise laboratory medicine with the highest level of professional ethical and moral values
Competences	• Plan and manage health, industrial and medical research laboratories. • Perform and interpret results of relevant laboratory diagnostic tests. • Integrate epidemiological and statistical skills in planning and analysing health researches. • Practice with high professionalism , with good relationship with patients, community, teaching skills and maintaining good practices • Integrate clinical microbiology in health diagnostics, industrial laboratories and medical research field. • Work in the system in the context of health care • Prepare fundable international proposal. • Train health professionals in the field of clinical microbiology and diagnostic molecular biology in Tanzanian medical universities and elsewhere.

Normal learning Matrix

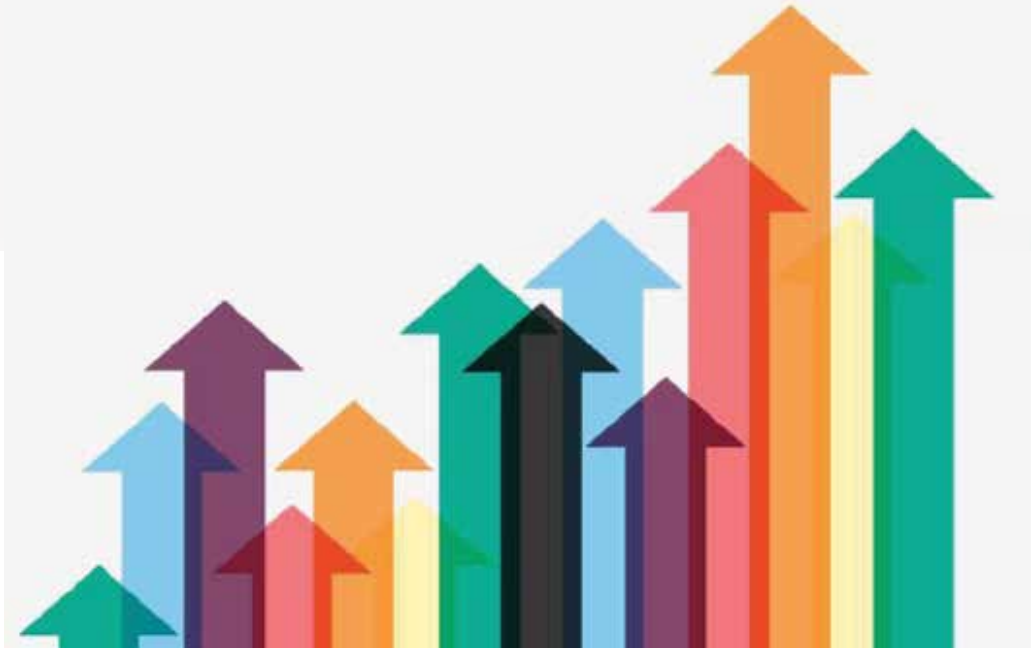
All courses in this program are core

Code	Course title	LH	TH	AH	IS	PH	H	Credits
Semester I								
CB 601	Cell Biology and Molecular biology	72	36	10	10	54	182	18.2
IM 602	Immunology	36	36	5	5	18	100	10.0
BM 603	Basic Microbiology	72	36	8	8	72	196	19.6
ER 604	Epidemiology, Research Methodology and Biostatistics	36	18	9	9	18	90	9
BB 605	Biosafety and Biosecurity	18	-	2	2	-	22	2.2
BB 606	Bioethics	36	-	2	2	-	40	4.0
Total		**270**	**126**	**36**	**36**	**162**	**630**	**63.0**
Semester II								
DM 607	Diagnostic Molecular Biology	54	54	18	18	90	234	23.4
AP 608	Applied Microbiology	54	54	18	18	90	234	23.4
BI 609	Bioinformatics	18	18	9	9	18	72	7.2
ME 610	Laboratory management & Entrepreneurship	36	18	9	9	18	90	9.0
Total		**162**	**144**	**54**	**54**	**216**	**630**	**63.0**
Semester III								
LR 611	Laboratory apprenticeship and Research proposal write-up	18	36	18	36	522	630	63.0
Semester IV								
DT 612	Dissertation and Scientific report writing	18	36	18	36	522	630	63.0
Total							**2520**	**252.0**

KEY:

LH:	Lecture Hours
TH:	Tutorial Hours
PH:	Practical or Field work hours
AS:	Assignment
IS:	Independent studies
H:	Hours
10	Notional Hours= 1 Credit

MASTER OF SCIENCE IN EPIDEMIOLOGY AND BIOSTATISTICS (MSc. EB)



MASTER OF SCIENCE IN EPIDEMIOLOGY AND BIOSTATISTICS (MSc.EB)

Introduction

The MSc. EB degree is a new postgraduate programme aimed at producing competent and skilled graduates of international standards. Graduates from this programme are expected to work in public and private research organizations, academic institution and any institution operating within the Public Health sector.

Objectives of the programme:

- Develop specialized health professionals in the field of epidemiology and biostatistics.
- Inculcate health professionals with competencies in conducting research that delineates the efficacy of health interventions.
- Promote graduates competencies of principles of Epidemiology and Biostatistics into disease surveillance and predictive modeling
- Promote moral, legal and high ethical conduct among trainees.
- To produce trainers in Epidemiology and Biostatistics in Tanzanian institutions and elsewhere.

Program expected learning outcomes

Knowledge	• Analyse critically the principles and concepts of Epidemiology and Biostatistics. • Differentiate epidemiological study designs. • Evaluate best statistical models for different epidemiological studies.
Skills	• Study the health care system functioning. • Design research protocol. • Execute research. • Write research report, manuscripts, and presentations for dissemination of results. • Translate research results into to policy. • Use different statistical models in epidemiological research. • Teach Epidemiology and Biostatistics to others.
Attitudes	• Safeguard the rights, safety and wellbeing of research participants. • Practice research with integrity.
Competences	• Plan and manage health, industrial and medical research laboratories. • Perform and interpret results of relevant laboratory diagnostic tests. • Integrate epidemiological and statistical skills in planning and analysing health researches. • Practice with high professionalism , with good relationship with patients, community, teaching skills and maintaining good practices • Integrate clinical microbiology in health diagnostics, industrial laboratories and medical research field. • Work in the system in the context of health care • Prepare fundable international proposal. • Train health professionals in the field of clinical microbiology and diagnostic molecular biology in Tanzanian medical universities and elsewhere.

Normal learning Matrix

All courses in this program are core

Code	Course title	LH	TS	AH	IS	PH	TH	Credits
Semester I								
FE600	Fundamentals of Epidemiology	68	17	10	10	51	156	15.6
IB600	Introduction of Biostatistics	68	17	17	17	61	180	18.0
RM600	Research Methods	51	17	10	10	10	98	9.8
SC600	Statistical Computing	34	34	14	2	10	94	9.4
EC600	Epidemiology of Communicable and Non-communicable Diseases	68	6	7	4	17	102	10.2
Total		**289**	**91**	**58**	**43**	**149**	**630**	**63.0**
Semester II								
AE600	Advanced Epidemiology	88	36	12	18	63	217	21.7
GM600	Generalized and Mixed models	85	51	9	17	90	252	25.2
SM 600	Systematic Review & Meta-analysis	39	34	17	17	91	198	19.8
Total		**162**	**212**	**121**	**38**	**52**	**244**	**667**
Semester III								
LA700	Longitudinal Analysis	82	11	13	14	54	175	17.5
BE700	Bioethics	34	4	3	3	12	56	5.6
TM700	Teaching Methodology	34	6	2	10	8	60	6.0
ES700	Entrepreneurship	14	3	3	2	10	32	3.2
PW700	Proposal Writing	3	3	6	32	64	110	11.0
FA700	Field Attachment	-	-	-	-	160	160	16.0
Semester IV								
CR700	Communicating Research	17	34	17	34	528	630	63.0
Programme Total		**685**	**276**	**140**	**190**	**1229**	**2521**	**252.1**

KEY

LH-Lecture hours
TS-Tutorial/Seminar hours
AH-Assignment hours
IS-Independent studies
PH-Practical hours
TH-Total hours
10 Notional Hours= 1 Credit

DOCTOR OF PHILOSOPHY (PhD)

DOCTOR OF PHILOSOPHY (PhD)

GUIDELINES

INTRODUCTION

The Catholic University of Health and Allied Sciences at Bugando will offer postgraduate programme leading to the award of Doctor of Philosophy (PhD) in all major fields of specialization in Health. The PhD degree is offered by thesis both in the Monograph format and by Publications.

The department will submit at least 2 names of suitably qualified individuals to act as supervisors for the candidate based on the CUHAS supervision guidelines. The names will have to be approved by the School Board, the Higher Degrees Committee and the Senate.

ENTRY QUALIFICATIONS

The prospective candidate must demonstrate the capacity to carry out research independently and ability to pursue the proposed study programme.

A candidate seeking for admission for a PhD must be a holder of a relevant Master Degree (MSc, or MMed) of the Catholic University of Health and Allied Sciences (CUHAS) or any other recognized institution of higher learning within or outside Tanzania. A holder of MD or BVM can register for a PhD programme; in this case, the duration of the training and content of the courses to be covered will be determined by the Higher Degree Committee based on the topic/area of specialization.

PROGRAMME STRUCTURE

1. The PhD degree will involve a three to five years full time research work, or four to nine years for a part time registered candidate at the end of which a thesis should be submitted
2. Registration for the programme shall be at any time during the academic year. The applicant will be required to fill in the relevant application forms (including certified copy of undergraduate Degree, Master Degree with relevant transcripts where appropriate, recent CV, and a five-page statement of the intended research topic) to the Director of Postgraduate Studies
3. The Director of Postgraduate Studies (through the respective applicant's Department and/or School Board) will assess the PhD candidate in five thematic areas (Applicant's qualifications including working experience in the subject matter, relevancy of the proposed PhD concept, suitability of the proposed supervisors, availability of funding and any other parameter) prior to submitting all necessary documents to the Higher Degree Committee for vetting, and subsequently to the Senate for approval.
4. Upon approval by the Senate, the candidate will be given a provisional registration which will last for one year, during which a candidate will prepare and present a comprehensive proposal on the area of interest through his/her respective department, PhD seminar forum and ultimately to the CUHAS/BMC Research and Ethics Committee (CREC) for approval.
5. The proposal should not exceed 25 pages in length (excluding the preamble pages, and appendices), typing in at least 12-point font and double spaced. The proposal must have at least the following

i. Title; clearly spells out the research questions to be answered
ii. Name of the author
iii. Names of the supervisors
iv. Abstract
v. Background information of the research problems
vi. The justification of the study, why the study is important and why it should be done
vii. Materials and methodology.
viii. How the results would be analyzed.
ix. The ethical considerations must be discussed thoroughly.
x. References

This proposal must be approved by the relevant Department, the Higher Degrees Committee and the CREC. .

Supervisors

The department will submit at least 2 names of suitably qualified individuals to act as supervisors for the candidate based on the CUHAS Supervision Guidelines and the Guidelines for Higher Degrees. The names will have to be approved by the School Board, the Higher Degrees Committee and the Senate.

SANDWICH PROGRAMME

CUHAS will also offer a PhD on a sandwich mode. This will mainly be in areas where facilities and research infrastructure is deemed inadequate. It is expected that most of data collection will be done in Tanzania. Literature Survey, analysis of results could be done at the collaborating institution. The following guidelines will be adhered to:

a. Entry requirements are the same as stipulated above.
b. The procedure for obtaining full registration will be similar to those stipulated above
c. The degree award shall be either of the Catholic University of Health and Allied Sciences or partner institution or both (i.e. CUHAS and the partner institution) The manner into which the degree will be awarded will be determined by the memorandum of understanding between the two institutions.

THE STRUCTURE OF THE PhD THESIS

Monograph

The PhD thesis at CUHAS should be written on size A4 paper using clearly readable fonts with double line spacing. There should be a 1" margins on top and bottom. There should be 1½" margin spacing on the left margins (to give space for binding) and 1" space on the right margin.

Generally a well-organized thesis should have the following structure:

i) Title page which should include • Title of the study (including subtitle) • Author • Thesis submitted in partial fulfilment for the award of Doctor of Philosophy (PhD) degree of the Catholic University of Health and Allied Sciences. • Date of submission (Month, Year) *ii) Declaration page* By the author and supervisors that the work presented is original and has not been presented for any other degree in any university. *iii) Dedication and acknowledgements* *iv) Abstract* *v) Table of contents*	*vi) List of Figures* *vii) List of Tables* *viii) Introduction* *ix) Literature review* *x) Materials and Methods* *xi) Results* *xii) Discussions* *xiii) Conclusions* *xiv) Recommendations* *xv) References* *xvi) Appendices*

Thesis by Publication

1. The general specifications on the standard of writing and layout of the PhD thesis by publication at CUHAS should be similar to those laid down in 5.1.
2. A PhD thesis should consist of published materials
   - Papers in citation indexed peer-reviewed journals with at least impact factor of 1 (predatory journals are totally discouraged and publishing in these journals may lead into disqualification of the candidate).
   - Peer –reviewed book chapters.
3. At CUHAS a total of four manuscripts should suffice for a PhD defence and submission of PhD thesis(three must be published or accepted for publication at the time of defence, and a fourth an be at a stage of submission to a peer-reviewed journal. One of the four articles can be a review article or meta-analysis or study protocol on the PhD topic.
4. The published materials must be prepared after admission to the PhD programme, or they should not have been published more than one year before registration.

5. It is expected that the candidate will have played a leading role in the design, carrying out the research work, analysis of data and writing of the manuscripts. Coauthored

papers should be accompanied by signed declaration by all the authors of the contribution by the candidate (especially if the candidate is not the first or senior author).

6. The published material must have not been used for an award of another degree.
7. The body of the thesis should comprise of the following sections:
    a) **A title page**
        - Title of the study (including subtitle)
        - Author
        - Thesis submitted in partial fulfilment for the award of Doctor of Philosophy (PhD) degree of the Catholic University of Health and Allied Sciences.
        - Date of submission

    b) Declaration page; by the author and supervisors that the work presented is original and has not been presented for any other degree in any university.
    c) An abstract of the entire thesis work (including the submitted papers)
    d) Table of contents, list of figures and tables
    e) Acknowledgements
    f) An introduction which highlights the aims and objectives and the significance of the research work done
    g) Literature review
    h) A chapter or section where the candidate will integrate the work done in the submitted papers so that there is a common theme in the thesis.
    i) Linking section between each publication to introduce the aims and hypothesis of each publication.
    j) Discussions and conclusion.
    k) References.

8. The binding of the thesis, submission, assessment by the examiners and defence of the thesis to be done as for the conventional thesis.

Submission of the Thesis

When the candidate and supervisors are satisfied by the progress of the thesis and are ready to submit the thesis for evaluation; the candidate must notify the School and the Directorate of Postgraduate Studies of the intention to submit the thesis for evaluation at least 2 months before.

- This will give time for the School and the Directorate to nominate examiners (Internal and External)
- The supervisors will have to declare and sign that they are satisfied with the standard of the thesis to be submitted for assessment and evaluation by the examiners
- The candidate will then submit the thesis in partial fulfilment of the requirement for the degree of Doctor of Philosophy (PhD) of the Catholic University of Health and Allied Sciences.
- Candidates must submit 6 loosely bound copies of the thesis at least three months before appearing for the defence.

- The thesis will be examined by both external and Internal examiners who will critically assess the thesis and submit Part I of the "*Dissertation and Thesis Scoring and Grading Guidelines*" form (i.e. Examiners Summary Assessment of Postgraduate Dissertation/Thesis).
- If the external examiners are satisfied by the standard of the thesis, the candidate will have to appear for the oral defence (viva voce) at a panel of examiners as recommended by the Director of Postgraduate Studies through the respective School Boards and the Higher Degree Committee

Viva voce Panel

The viva voce panel which must be approved by the Senate or Chairman of the Senate on its behalf will consist of :

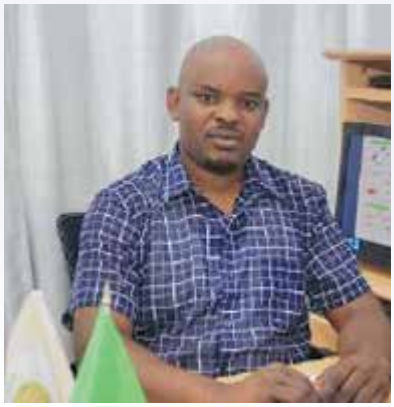
- The Chairman with voting power, recommended by the Dean of Relevant School and the Director of Postgraduate Studies.
    - The Chairperson of the viva voce panel shall be a senior academician preferably a person who has already attained the level of a professor
- Two External Examiner who examined the thesis
- Two Internal Examiners who examined the thesis
- One member appointed by the Dean of school where the candidate is registered who will be the rank of of at least associate Professor or a PhD holder
- One member appointed by the Head of department where the candidate is registered who will be at a rank of at least Associate Professor or a PhD holder who is an expert in the field of specialization.
- Any other qualified co-opted members invited by the relevant School (one of whom will be a secretary) and approved by the Senate.

The ***viva voce*** examination process will include

- Presentation by the candidate about his/her works. This could be a power point presentation. It should be brief and cover the main areas of the work ***(introduction, justification for the study, main objectives, materials and methodology, main findings and any new contribution to scientific knowledge, discussions, conclusions and suggestions for future studies)***
- This will be followed by questions from the members of the panel to ascertain the competency of the candidate in the research work presented and the area of specialization
- The function of the viva voce examination shall be to make a definite recommendation to the relevant academic unit handling postgraduate studies and Senate whether the candidate has passed or failed after having ascertained:
    - that the thesis presented, the data, methodology, analysis and findings is the original work of the candidate
    - that the candidate fully grasps the broader subject area in which the study is based;
- Any weakness in the thesis that can be adequately clarified or addressed by the candidate. Assessment of the viva voce will be governed by Part IIA of the "*Dissertation and Thesis Scoring and Grading Guidelines*" form (i.e. Examiners Summary Assessment of Dissertation/Thesis viva voce).Final disposition of the candidate will be governed by the "*Dissertation and Thesis Scoring and Grading Guidelines*" form (Part IIB).

- Any corrections of the thesis have to be done and submission of error free dissertation done before a candidate will be awarded degree.

INSTITUTE OF ALLIED HEALTH SCIENCES (IAHS)



Mr. Mholya Zabron Falle, Director - IAHS
BMLS (CUHAS), MSc (CUHAS)

The Institute of Allied Health Sciences (IAHS) is the centre in which the University offers Diploma Programmes in Allied Health Sciences. Currently, we run three Diploma Programmes specifically Diploma in Medical Laboratory Sciences, Diploma in Diagnostic Radiography and Diploma in Pharmaceutical Sciences. All three programmes are highly competitive and offer good employment prospects to out graduates.

Vision of the Institute:
To become an institute of excellence in competence and diligence in training and skill provision, relevant to the community.

Mission of the Institute:

- To deliver and impart knowledge, skills and understanding responsive to the health sector at large.
- To provide high quality technical skilled services to the community.

DIPLOMA PROGRAMMES

SUMMARY OF THE CURRICULUM FOR DIPLOMA PROGRAMMES

DPS CURRICULUM SEMESTER MODULES

Code	Module Title	Scheme of Study (Hours per week)				Credits / Semester
		Theory	Tutorials	Practical	Assignment	
FIRST YEAR						
Semester I						
PST04101	Dispensing	2	-	1	1	8
PST04102	Disease Control and Prevention	4	-	-	1	10
PST04103	Human Anatomy and Physiology	4	1	-	1	12
PST04104	Pharmaceutical Dosage Forms	2	-	-	1	4
PST04105	Pharmaceutical Calculations	4	1	-	1	11
PST04106	Communication Skills	1	-	-	1	4
PST04107	Basic Computer Applications	1	-	2	1	6
	TOTAL	**18**	**2**	**3**	**7**	**55**
Semester II						
PST04208	Law and Ethics in Pharmacy Practice	2	-	-	1	4
PST04209	Compounding of Pharmaceutical Liquid Preparations	2	-	6	1	20
PST04210	Pharmaceutical Inorganic Chemistry	2	1	-	1	12
PST04211	Basic Pharmacology	4	1	-	1	12
PST04212	Medical Stores Management	4	1	2	1	12
	TOTAL	**14**	**3**	**8**	**5**	**60**

Code	Module Title	Scheme of Practice (Hrs per week over six weeks)				Credits
		Dispensing	Drugs Store	Industrial	Sterile Preparations	
PST04213	Pharmacy Practice	120	120	0	0	5

Code	Module Title	Scheme of Study (Hours per week)				Credits / Semester
		Theory	Tutorials	Practical	Assignment	
SECOND YEAR						
Semester III						
PST05101	Medicines and Medical Supplies Management	4	-	1	1	12
PST05102	Law and Policies in Pharmacy Practice	2	-	-	1	7
PST05103	Pharmaceutical Microbiology	4	1	-	1	12
PST05104	Pharmacology and Therapeutics	4	1	-	1	12
PST05105	Rational Use of Medicines	2	-	-	1	4
PST05106	Pharmaceutical Organic Chemistry	4	1	-	1	12
	TOTAL	**20**	**3**	**1**	**6**	**59**
Semester IV						
PST05207	Quality Assurance of Pharmaceutical Products	2	1	2	1	12
PST05208	Pharmaceutics Theory and Compounding	2	1	6	1	20
PST05209	Health Information Management	4	1	2	1	12
PST05210	Basic Pharmacognosy	4	1	-	1	12
	TOTAL	**12**	**4**	**10**	**4**	**56**

Code	Module Title	Scheme of Practice (Hrs per week over six weeks)				Credits
		Dispensing	Drugs Store	Industrial	Non Sterile Preparations	
PST05211	Pharmacy Practice	120	120	0	0	5

		Scheme of Study (Hours per week)				Credits / Semester
		Theory	Tutorials	Practical	Assignment	
THIRD YEAR						
Semester V						
PST06101	Leadership and Management	3	-	-	1	9
PST06102	Counselling and Guidance Skills	2	1	-	1	8
PST06103	Pharmaceutical Production	4	1	4	1	14
PST06104	Health and Medicines Policy	2	-	-	1	7
PST06105	Health Financing	3	-	-	1	9
PST06106	Basic Pharmacotherapy	2	-	-	1	6
PST06107	Basic Veterinary Pharmacology	2	-	-	1	6

	TOTAL	**18**	**2**	**4**	**7**	**59**
Semester VI						
PST06208	Pharmaceutical Public Health	2	1	-	1	8
PST06209	Entrepreneurship	4	1	-	1	12
PST06210	Operational Research	8	1	-	5	24
PST06211	Monitoring and Evaluation of Medicines Use	4	1	-	1	12
	TOTAL	**18**	**4**	**-**	**8**	**56**

Code	**Module Title**	**Scheme of Practice (Hrs per week over six weeks)**				**Credits**
		Dispensing	Drugs Store	Industrial Operations	Sterile Preparations	
PST06212	Pharmacy Practice	120	120	0	0	5

DDR CURRICULUM (SEMESTER MODULES)

Summary of the subjects and their code numbers

CODE	*SUBJECT*	*HOURS*	*UNITS*
FIRST YEAR			
Semester 1			
DR 111	Radiographic Photography and imaging (I)	75	**5**
DR 112	Radiographic Technique and procedures (I)	142.5	**9.5**
DR113	Anatomy, Physiology & Pathology (I)	90	**6**
DR114	Applied physics	82.5	**5.5**
DR 115	Care of patients	120	**8**
	Clinical rotations at X-Ray Department	80	**2.7**
Total		**590**	**36.7**
Semester 2			
DR 121	Radiographic Photography and imaging (II)	60	**4**
DR 122	Radiographic Technique and procedures (II)	157.5	**4**
DR 123	Anatomy, Physiology & Pathology (II)	37.5	**2.5**
DR 124	Radiation physics	60	**4**
DR 125	Basic ultrasound imaging (I)	90	**6**
DR 126	Clinical practice at X-Ray department (I)	160	**5.3**
Total		**565**	**25.8**
SECOND YEAR			
Semester 3			
DR 231	Radiographic Photography and imaging (III)	60	**4**
DR 232	Radiographic Technique and procedures (III)	90	**6**
DR 233	Equipment of diagnostic radiography	150	**10**
DR 234	Anatomy, Physiology & Pathology (III)	120	**8**
DR 235	Radiobiology and radiation protection	30	**2**
DR 236	Clinical practice at X-Ray department (II)	160	**5.3**
Total		**610**	**35.3**
Semester 4			
DR 241	Radiographic technique and procedure (IV)	135	**9**
DR 242	Anatomy, Physiology and Pathology (IV)	120	**8**
DR 243	Radiological pathology (I)	105	**7**
DR 244	Basic Ultrasound imaging (II)	45	**3**
DR 245	Clinical practice at X-Ray department (III)	160	**5.3**
Total		**565**	**32.3**
THIRD YEAR			
Semester 5			
DR 353	Basic Ultrasound imaging (III)	45	**3**
DR 354	Management and Administration	67.5	**4.5**
DR 355	Quality Assurance	60	**4**
DR356	Clinical practice at X-Ray department (IV)	160	**5.3**
Total		**332.5**	**16.8**
Semester 6			
DR 351	Radiographic Technique and Procedure V	127.5	**8.5**
DR 353	Radiological Pathology II	105	**7**
DR 361	Field work	480	**16**
DR 362	Equipment for diagnostic radiography (II)	90	**6**
DR 363	Clinical practice (V)	30	**1**
Total		**600**	**23**
Grand Total		**3262.5**	**169.9**

DMLS CURRICULUM (SEMESTER MODULES)

Summary of the subjects and their code numbers

Code	Module Title	Scheme of Study (Hours per week)				Credits / Semester
		Theory	Tutorials	Practical	Assignment	
FIRST YEAR						
Semester I						
MLT04101	Basic Human Anatomy& Physiology	3	1	-	1	10
MLT04102	Basic Laboratory Instrumentation	3	-	4	1	14
MLT04103	Customer care & communication skills	3	-	-	1	8
MLT04104	Laboratory ethics and professionalism	2	-	-	1	6
MLT04105	Laboratory safety and Waste Management	2	1	1	1	10
MLT04106	Prevention and Control of Diseases	2	-	2	1	10
	SUB TOTAL	**15**	**2**	**7**	**6**	**58**
Semester II						
MLT04207	Systemic Human Anatomy& Physiology	3	-	-	1	**8**
MLT04208	Basic Computer Skills & Information Management	1	-	3	1	**10**
MLT04209	Basic Laboratory Investigation	2	-	4	1	**14**
MLT04210	Basic Laboratory Specimen Management	2	-	2	1	**10**
MLT04211	Occurrence Management & Record Keeping	1	1	-	1	**8**
MLT04212	Preparation of Basic Laboratory Reagents & Solutions	2	-	3	1	**12**
	SUB TOTAL	**11**	**1**	**12**	**6**	**62**
SECOND YEAR						
Semester III						
MLT05101	Histological & Cytological Technique	1	1	2	1	**10**
MLT05102	Application of Computer Skills& Biostatistics	1	-	3	1	**10**
MLT05103	Quality Assessment of Laboratory Services	4	-	-	1	**10**
MLT05104	Procurement Of Laboratory Supplies	3	-	-	1	**8**
MLT05105	Maintenance& Calibration of Laboratory Equipment & Instruments	2	1	2	1	**12**
MLT05106	Laboratory Specimen Collection & Transportation	2	-	3	1	**12**
	SUB TOTAL	**13**	**2**	**10**	**6**	**62**
Semester IV						
MLT05207	Hematology & Blood Transfusion	2	1	4	1	**16**
MLT05208	Microbiology & Immunology	2	1	3	1	**14**
MLT05209	Clinical Chemistry	2	1	3	1	**14**
MLT05210	Medical Parasitology	2	1	3	1	**14**
	SUB TOTAL	**8**	**4**	**13**	**4**	**58**
THIRD YEAR						
Semester V						
MLT06101	Management& Leadership	3	1	-	1	**10**
MLT06102	Biosafety& Biosecurity	3	1	-	1	**10**
MLT06103	Public Health Promotion	3	1	-	1	**10**
MLT06104	Health Economics& Entrepreneurship	2	1	-	1	**8**
MLT06105	Laboratory Ethics& Professional Code of Conduct	1	1	-	1	**6**
MLT06106	Laboratory Information Management	1	-	2	1	**8**
MLT06107	Laboratory Quality Assurance	2	1	-	1	**8**
LP 332	Field Work Practice	-	-	-	-	**35.2**
	TOTAL	**15**	6	2	7	**95.2**
Semester VI						
MLT06208	Diagnostic Pathology in Parasitology &	2	-	2	1	**10**

	Entomology					
MLT06209	Diagnostic Pathology in Microbiology& Immunology	2	1	3	1	**14**
MLT06210	Diagnostic Pathology in Clinical Chemistry	2	1	2	1	**12**
MLT06211	Diagnostic Pathology in Histology & Cytology	2	-	2	1	**10**
MLT06212	Diagnostic Pathology in Hematology & Blood Transfusion	2	1	3	1	**14**
	TOTAL	**10**	**3**	**12**	**5**	**60**

OCCASIONAL STUDENTS/ELECTIVE STUDENTS

1. An occasional/elective student is one the duration of whose studentship is less than one academic year. Occasional/elective students should normally stay for less than one semester.
2. The entrance qualifications are the same as for admission to Undergraduate degree course or equivalent.
3. a) The applications must be submitted through the applicant's Institute which should, if it supports the application, send a letter of recommendation to this University.
   c) Applications for occasional studentship at the Catholic University of Health and Allied Sciences (CUHAS- Bugando) should reach the Vice Chancellor at least six months before the date or month for which the applicant seeks admission.

   All correspondence should be addressed to:

   The Deputy Vice Chancellor (ARC)

   Catholic University of Health and Allied Sciences,

   P.O. Box 1464

   Mwanza.

   FAX: 255-28-298 3386

   Email: vc@bugando.ac.tz

   Website: http://www.Bugando.ac.tz
4. Non-Tanzanian students are expected to conform to all immigration formalities in force in their countries before they depart for Tanzania. They must also obtain Resident Permit from the nearest Tanzanian Embassy or High Commission before they arrive.
5. Admission is on a semester basis to any year of study.
6. Occasional students will neither sit for exams nor get transcripts or grades except in special circumstances or where regulations allow a special programme could be set up which is recognized by the University.
7. An occasional student will be discontinued on the following grounds: -any serious breach of University regulations, abscondment, or irregular attendance.
8. Occasional students will pay fees like all other students.
9. Non-Tanzanian students will pay fees in foreign currency (US$) or its equivalent in other acceptable currencies.

STUDENTS' PRIZES

1. The Vice Chancellor's Prize:

   For the Academically overall best student in each year of study for all programmes

2. The CUHAS COUNCIL CHAIRMAN'S Prize:

   For the Best all-round student in each year of the degree programmes

3. The Thomas L. Smith Prize:

   For the best male student in each year's MD course university Examinations

4. The Kimiko Ryan Prize:

   For the best female student in each year's MD course university Examinations

5. Twenty Eleven Team Tanzania Scholars Award:

   For the academically overall best student in each year of study for the MD programme.

6. The Hartfield Academic, Research and leadership Award

   Hartfield award to the best MPH candidate who has shown academic, research and leadership excellence.

UNIVERSITY MANAGEMENT COMMITTEE

1. Vice Chancellor/Chairman
2. Deputy Vice Chancellor (ARC)/Vice-Chairman
3. Deputy Vice Chancellor (PFA)
4. Corporate Counsel
5. Chief Accountant/Bursar
6. Director of Quality Assurance
7. Dean of Students
8. Director of Human Resources & Administration
9. Director of Planning, Business Development and Investment
10. Internal Auditor
11. Chaplain
12. Public Relations Officer
13. Administrative Officer (Secretary/Recorder)

STAFF LIST

SENIOR STAFF

The Vice Chancellor

Prof. Erasmus Kamugisha	*MD (UDSM); MSc (Makerere); PhD (CUHAS)*

Deputy Vice Chancellor Academics, Research & Consultancy

Prof. Peter Rambau,	*MD (UDSM), MMed (Makerere), PhD (Calgary)*

Deputy Vice Chancellor Finance, Planning and Administration

Prof. Stephen E. Mshana,	*MD (UDSM); MMed (Makerere); PhD (SAUT), Fell. Med. Edu (SA), Fellow (AAS)*

Dean, Weill Bugando School of Medicine

Dr. Haruna Dika,	*MD (UDSM), MSc (Makerere), PhD (Calgary)*

Associate Deans, Weill Bugando School of Medicine

Dr. Erius Evarist Tebuka,	*MD (SAUT), MMed (MUHAS)*
Dr. Dismas Keneth Matovelo	*MD (UDSM), MMed (SAUT)*

Dean, School of Pharmacy

Dr. Karol Julius Marwa	*BPharm (UDSM), MSc (Mbarara), PhD (CUHAS)*

Acting Dean, Archbishop Anthony Mayala School of Nursing

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G. G. Mtui	*MD(MUHAS), MMed (CUHAS)*
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A. L. Kajura	*MD (UDSM), MMed (UDSM)*
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C. B. Protas	*MD (CUHAS), MMed (CUHAS)*
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E. E. Mlay	*MD(HKMU), MMed (MUHAS)*
B. R. Mkinze	*MD (CUHAS), MMed (CUHAS)*
A. J. Katembo	*MD (CUHAS), MMed (CUHAS)*
R. O. Gina	*MD(HKMU), MMed (MUHAS)*
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T. Y. Mafuru	*BPharm (CUHAS), MPharm (MUHAS)*
T. M. Joseph	*BSc (UDSM), MSc (MUHAS)*

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J. M. Fredy *BSc (CUHAS)*

N. J. Mtaita *BSc (CUHAS)*

J. P. Mlacha *BSc (CUHAS)*

Clinical Instructor

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T. K. Kajwangya *BSc (CUHAS)*

E. P. Rwegasira *BSc (SJUT)*

R. J. Ongito *BSc (SJUT)*

E. M. Muyunga *BSc (UDOM)*

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A. S. Palangyo	*BSc (CUHAS), MSc (UDOM)*
D. L. Muyanga	*BSc (SJUT), MSc (UDOM)*
A. I Lizonga	*BA (UDSM), MA (Mount Meru)*

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W. E. Thurston	MD, PhD (*Calgary*)	Visiting
D. Dewey	MD, MSc, PhD (*Calgary*)	Visiting
T. Donnon	BSc, Bed, MED, PhD (*Calgary*)	Visiting
D. Strong	MD, PhD (*Calgary*)	Visiting
L. Baig	*MD, PhD*	Visiting

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Professor

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R. Sauve	*MD, MMED, FRCS*	Visiting
T. Beran	*BA, MSc, PhD*	*Visiting*

Senior Lecturer

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