

1.0 INTRODUCTION

1.1 VICE CHANCELLOR'S MESSAGE

Mbeya University of Science and Technology (MUST) provides Technical Education, Research and Consultancy

services. Due to rapid technological changes in the world today in many fields, there are ever widening technical

skill gaps in the labour market for scientists, technicians and engineers. MUST has set for itself the task of responding

to these changes at the same pace as that at which the technology is changing by making frequent reviews of its

curricula and developing new curricula and Programmes to fit and fill the skill gaps that new technologies pose.

MUST, therefore play its role of training scientists, engineers and technologists in numbers and quality so as to

spearhead development in the public and private sector.

1.2 HISTORICAL BACKGROUND

Mbeya University of Science and Technology (MUST) is a result of the transformation of Mbeya Institute of Science

and Technology (MIST) through the University Act No. 7 of 2005 and the Charter of Mbeya University of Science

and Technology, 2013. The Institute was a result of the transformation of the former Mbeya Technical College

(MTC) through the National Council for Technical Education (NACTE) Establishment Order No. 9 of 2004 and

Section 9 of the NACTE Act of 1997. MTC was officially launched on 1st September, 1986.

The transformation from MTC to MIST and then MUST was done to fulfill a long-term plan, made during the first

phase Government, under the then President of the United Republic of Tanzania, the late Mwalimu Julius Kambarage

Nyerere.

In a bid to expand and offer services to a wider client base, in 2015, Mbeya University of Science and Technology

(MUST) acquired a new Campus (MUST Rukwa Campus College) which is in the Rukwa Region

LOCATION

Mbeya University of Science and Technology has two campuses. The Main Campus is located in Mbeya City in the

Southern Highlands of Tanzania 10 km outside the city center and about 3 Km from the Mbeya – Tunduma Highway.

The road to MUST branches from the highway at the Iyunga/Ituta – TAZARA area. MUST Rukwa Campus College

is located at Kianda along the Tunduma- Sumbawanga road, about 50 km from Sumbawanga.

MISSION AND VISION

MISSION To develop academically, technology, and socially competent students, staff, and other stakeholders who will be responsible to the broader needs and challenges of the society.

CORE VALUES

In undertaking its roles and functions, MUST will uphold the following core values:

- i. Leadership in Innovation and Technology** - The University is committed to advancing science and technology as an essential part of our cultural heritage. High-quality, state-of-the-art programmes and the embracing of future technologies are highly valued.
- ii. Cultural of Excellence** - This means striving to do things better, setting challenging goals, and continuously improving and innovating to deliver the best possible outcomes.
- iii. Diversity and Equal Opportunities for All** - We believe in ethical and scholarly questioning in an environment that respects the rights of all, to freely pursue knowledge.
- iv. Partnerships** - The University will work very closely with its stakeholders who include; students and staff, industries, Government institutions, NGO's Civil Society Groups, service providers, development partners, and other learning institutions, both within and outside the country.
- v. Integrity and Stewardship of Resources** - MUST is committed to accountability and responsibility in all actions and adhere to the highest standards of professional ethics and individual integrity

In providing direction to influence its operations towards the desired future; MUST is guided by the following vision, mission, and core values:

VISION

To become the leading center of excellence for knowledge, skills and applied education in science and technology.

UNIVERSITY TOP LEADERS

Hon. Dr. Amani Abeid Karume

Chancellor

Hon. Zakia Hamdani Meghji

Chairperson of the University Council

Hon. Zakia Hamdani Meghji

Chairperson of the University Council

Prof. Said Ali Hamad Vuai

Deputy Vice Chancellor Academic, Research and Consultancy

Prof. Zacharia Saimon Katambara

Deputy Vice Chancellor Planning, Finance and Administration

UNIVERSITY COLLEGES

1. CET

The College of Engineering and Technology (CET) is one of the earliest colleges in Mbeya University of Science and Technology. CET is aimed at offering bachelor and postgraduate degree programmes. It is probably the largest subset of MUST with two thirds of the student population enrolled at the University. It conducts research and consultancy activities in a competitive manner that meet the stakeholders requirements by applying latest innovation and technology.

The CET anticipates to be offering postgraduate engineering programmes in the fields of Energy, Oil and Gas, Civil and Environment in the near future. The CET structure is composed of five departments shown below. It also has other supportive units dealing with various functions. These units include Postgraduate studies, Research and Publications, Quality Assurance and Quality Control, Distance Learning and Continuing Education, Undergraduate Studies, Admission Unit, Student Load & Scholarships, Examination Unit and MUST Consultancy Bureau.

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DEPARTMENTS OF THE COLLEGE

- 1 Department of Information and Communication Technology [View](#)
- 2 Department of Electrical and Power Engineering [View](#)

- | | |
|---|----------------------|
| 3 Department of Civil Engineering | View |
| 4 Chemical Processing and Environmental Engineering | View |
| 5 Department of Geosciences and Mining Technology | View |
| 6 Department of Mechanical and Industrial Engineering | |

Information and Communication Technology is the department found in the College of Engineering and Technology. It offers Bachelor Degree in Computer Engineering. It is in the process of launching two new bachelor degree programmes. These two programmes are Computer Science and Information Communication Technology.

The department provides various ICT short courses in collaboration with Centre for distance and continuing education. The short courses aim at increasing access to ICT education by the local community and country at large.

The Department also provides consultancies and ICT solutions through various software development in collaboration with Must Consultancy Bureau and MUST ICT Solution and Innovation Centre (MIIC).

DEVELOPED INFORMATION SYSTEMS & SOLUTIONS:

1. MUST File Tracking System
2. Android mobile application for MUST staff and Student SMS management system

DEPARTMENT RESEARCH AREA OF INTERESTS:

1. Computer network management and security
2. Software development
3. Data mining
4. Industrial and agricultural automation

The Electrical and Power Engineering (EPE) Department is one of the academic departments in the College of Engineering and Technology (CET) at Mbeya University of Science and Technology. The Department has a total of twenty-six (26) academic staff of which nine (09) are pursuing further studies. Presently, the Department offers two undergraduate academic programmes which are Ordinary Diploma in Electrical and Electronics Engineering and Bachelor Degree in Electrical and Electronics Engineering. Also, the Department offers one postgraduate programme of Masters of Engineering in Clean Energy Technologies.

The Ordinary Diploma in Electrical and Electronics Engineering is a programme of three (03) years while Bachelor Degree is a programme of four (04) years. Masters of Engineering in Clean Energy Technologies is a programme of two (02) years.

Furthermore, the department conduct various short courses in the field of Electrical and Electronics Engineering. These courses are normally advertised via MUST website. Apart from teaching, the academic staff from the department also participate in various research and consultancy activities. The Consultancy activities are mainly implemented under MUST Consultancy Bureau (MCB).

2.CoSTE

The College of Science and Technical Education was established and approved by the University Council as prescribed by article 24(2d) of the University Charter-2013. It was established to address acute shortage of graduate teachers and experts in Science and Technical education sector in Tanzania. The shortage resulted from expansion of primary and secondary education enrolment through Primary Education Development Programme (PEDP) and Secondary Education Development Programme (SEDP) respectively.

COSTE is the college that intends to strengthen Technical Education in the Country and beyond. It is committed to produce more Technical manpower with education background in covering the shortage of Technical Teachers. It is therefore dedicated to offer quality services and training to its customers as well as endeavouring to lead in Science and Technology. Currently, the college is composed of Six departments and supportive units as indicated below:

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DEPARTMENTS OF CoSTE

- | | |
|---|----------------------|
| 1 Department of Natural Sciences | View |
| 2 Department of Mathematics and Statistics | View |
| 3 Department of Applied Sciences | View |
| 4 Department of Medical Sciences and Technology | View |
| 5 Department of Technical Education | View |
| 6 Department of Earth Sciences | |

3. CoHBS

Principal, College of Humanities and Business Studies

The College of Humanities and Business Studies (CoHBS) is one of the academic units at Mbeya University of Science and Technology. The College was established in 2019 and its tasked with providing knowledge and expertise in the business domain and in the humanities arena. In order to achieve this, the College offers long term training programmes in various levels such as bachelor, diploma and certificate. Further, the College also provides short courses in key strategic areas in Humanities and Business Administration. The Short Courses are skills-based training courses designed to update the participant's skills in current and emerging industry issues such as strategic Management, customer care, budgeting, conflict resolution and management, project management, marketing and communication, entrepreneurship and social media marketing. In order to contribute

to the society, the College carries out Research and consultancy in areas related to the programmes offered at the College.

The College has two departments which are Business Management and Humanities. It expects to establish a department of laws. Eight programmes are offered under the Business Management Department and six programmes are under development in the Humanities Department. The college expects to soon begin offering postgraduate programmes at Masters and Doctoral levels. The Master of Economics and PhD in economics have been approved by the relevant authorities and will be offered as soon the required staff are obtained.

It also supports other Colleges in training Entrepreneurship, Development Studies and Communication Skills.

The College has vibrant faculty made up of 45 academic members of staff in the College and their qualifications are as follows: three are senior lecturers, nine lecturers, 25 Assistant Lecturers, six tutorial assistants and two instructors. Currently, 1,090 students are enrolled in the College.

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- 1 Business Management [View](#)
- 2 Department of Humanities [View](#)
- 3 Department of Law

4. CoACT

College of Architecture and Construction Technology (CoACT)

The College of Architecture and Construction Technology was officially established on 1st September, 2019 following the reformation of the University to become a more world-class, modern University of Science and Technology and as well as to become more responsive to the current market demands.

The general objective of the College is to offer education and training in architecture and art design, building science and technology, building construction technology and management, landscape architecture, land planning, and quantity surveying so as to develop a critical mass of highly trained manpower who will work in construction industry as Contractors and Consultants (Architectural Technologists, Architects, Landscape Architects, Interior Designers and Quantity Surveyors) as well as policy makers. Furthermore, it intends to equip young generation with the necessary skills in the areas of building performance, sustainable design and building informatics. This necessitates a paradigm shift towards creating built environments that are not only comfortable and healthy for the users but are also sustainable.

In its full-fledged status, the College will have 3 departments namely:

- Architecture and Art Design,
- Construction Management and Technology.
- Land, Spatial Planning and Real Estate Studies

However, in the meantime only two departments which are; Architecture and Art Design, and Construction Management and Technology have started to operate whereby out of the two, the department of Architecture and Art Design has three(3) academic programmes running which are: (1) Diploma in Architecture, (2) Bachelor of Technology in Architecture, and (3) Bachelor of Technology in Landscape Architecture.

The Department of Construction Management and Technology (CMT) is developing new programs as well as offering staff to teach various courses within and outside the College. The College has successfully developed the following programs: Bachelor Degree in Quantity surveying, Master of Science in Construction Management, and Master of Science in Building Performance & Technology which are expected to start running soon after the College acquires enough staff. Currently the College is developing Curriculum for Diploma in Quantity Surveying and Bachelor of Architecture.

The present College Principal is Dr. Mwajuma Lingwanda while the Department of Architecture and Art Design is headed by Ms. Rosemary Kavishe whereas the Department of Construction Management and Technology is headed by Dr. Gislar Kifanyi.

The College has 38 young and enthusiastic staff who are determined to see the College grow to the highest level in all its core functions within and outside MUST. Currently, CoACT has seven (7) Lecturers; 19 Assistant Lecturers; eight (8) Tutorial Assistants, three (3) Instructors and one (1) Technician. A total eight (8) staff are on study leave out which six (6) staff are pursuing PhD and one (1) is undergoing a Master Degree study. Presently, the College has student enrolment of about 570.

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DEPARTMENTS OF CoACT

Name

- 1 Department of Architecture and Art Design [View](#)
- 2 Construction Management and Technology

5. CoICT

The College of Information and Communication Technology (CoICT) is advocated to be one of the novel College to be established at Mbeya University of Science and Technology (MUST) in Tanzania as an outcome of the continuing reorganizations. The establishment of this College was catalyzed by the need of addressing an increasing demand of Information and Communication Technology specialists in the country by strengthening the University's teaching, research and public service in the ICT-related disciplines through a more efficient utilization of the available human and physical resources.

The College offers both diploma programmes, undergraduate and postgraduate degree programmes that are anticipated to stress interactions between lecturers and students who are committed to academic excellence. The College offers curricula that integrate scientific, ICT and engineering principles, practical laboratory and computer work, engineering design experiences culminating into projects by applying Problem Based Learning approach to solve existing community challenges.

Currently the College have four (4) Departments running and one under construction namely:

- Department of Computer Science and Engineering (CSE)
- Department of Information Systems and Technology (IST)
- Department of Electronics and Telecommunications Engineering (ETE)
- Department of Informatics (IF)
- Department of Content Engineering and Multimedia Technology (CEMT)

More departments and specialties are planned to be establishes in the near future as the College builds up human resource infrastructure in the area of ICT and other related disciplines. Currently the College have the total number of ten (10) programmes namely:

- Diploma in Computer Science
- Diploma in Computer Engineering
- Diploma in Information Communication Technology and
- Diploma in Electronics and Telecommunication Engineering
- Diploma in Business Computing
- Bachelor in Computer Engineering
- Bachelor in Computer Science
- Bachelor in Engineering in Data Science
- Bachelor of Science in Information and Communication Technology
- Bachelor in Engineering in Telecommunication Systems
- Masters of Information Technology
- PhD in Information System Engineering

Dr. Juma Said Ally

Principal, College of Information and Communications Technology

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6.CoAST

Welcome to the College of Agricultural Sciences and Technology (CoAST) where Science, Technology and Innovation in Agriculture are emphasized. A college where students are not just given education and experience, communities are not just given knowledge, but targeting to help them succeed to transform agricultural sector through the use of technologies and innovations. CoAST is committed in offering practical oriented agricultural education and trainings. It was established after identifying the gaps in leveraging the use of technologies and innovations in agricultural sector development.

CoAST has an extended MUST mission *to develop competent students, staff and communities in areas of agricultural science, technology and innovation to respond to challenges facing agricultural sector in Tanzania and the world at large*. The extended MUST vision of the college is *to become a prominent hub for training and cutting-edge scientific and technological innovations in agriculture, livestock, fisheries and beekeeping for sustainable and inclusive development*.

The college was established with the objectives to:

- i. Train students in various fields of agriculture focusing on their sciences and technologies.
- ii. Conduct research and undertake projects in areas of agriculture and coming up with solutions and innovations for agricultural development through the use of its staff expertise, the available state-of-the-art laboratory and farm facilities to address the real-world challenges facing agricultural sector in Tanzania and the world at large.
- iii. Provide consultancy services to communities and various stakeholders for solving various challenges facing agricultural sector from the community to the government level, including conducting capacity building in new agricultural skills and technologies through short-course and tailor-made trainings to the farming communities in Tanzania and beyond.
- iv. Develop and pioneer innovations in agriculture for promoting appropriate technologies for sustainable intensification of agricultural production and income, reducing negative impact to the environment and resilience to climate change.

The college has six (6) allocated departments:

- i. Department of Agricultural Engineering
- ii. Department of Crop Science and Horticulture
- iii. Department of Food Science and Technology
- iv. Department of Natural Resources
- v. Department of Veterinary Medicine and Animal Science
- vi. Department of Agronomy and Soil Science

Out of these, two departments: **Department of Food Science and Technology and Department of Crop Sciences and Horticulture** are active and running with a total of 31 staff (25 academicians, 2 instructors, 3 technicians and 1 administrative staff).

The college has the MUST Demonstration farm with 30 Acres of land as a training platform for agricultural skills development and capacity building of new agricultural practices, technologies and

innovations. The CoAST demo farm will support teaching activities and practical training to students who will be enrolled in CoAST as well as students from other colleges within MUST, other academic institutions and the farming communities.

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Admission - Programmes Offered

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Filter Programmes

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SN.	Programme Name	Fee	Mode of Study
1	Bachelor of Agribusiness Management and Technology Fee: 700,000TZS Mode of study: Full Time	700,000TZS	Full Time
2	Bachelor of Business Administration Fee: 800,000TZS Mode of study: Full Time	800,000TZS	Full Time
3	Bachelor of Civil Engineering Fee: 1,100,000TZS Mode of study: Full Time	1,100,000TZS	Full Time
4	Bachelor of Computer Engineering Fee: 1,100,000TZS Mode of study: Full Time	1,100,000TZS	Full Time
5	Bachelor of Computer Science Fee: 1,100,000TZS Mode of study: Full Time	1,100,000TZS	Full Time
6	Bachelor of Electrical and Electronic Eng Fee: 1,100,000TZS Mode of study: Full Time	1,100,000TZS	Full Time
7	Bachelor of Engineering in Data Science Fee: 1,100,000TZS Mode of study: Full Time	1,100,000TZS	Full Time
8	Bachelor of Engineering in Telecommunication Systems Fee: 1,100,000TZS Mode of study: Full Time	1,100,000TZS	Full Time
9	Bachelor of Food Science and Technology Fee: 1,100,000TZS Mode of study: Full Time	1,100,000TZS	Full Time
10	Bachelor of Laboratory Sciences and Technology Fee: 1,100,000TZS Mode of study: Full Time	1,100,000TZS	Full Time
11	Bachelor of Mechanical Engineering Fee: 1,100,000TZS Mode of study: Full Time	1,100,000TZS	Full Time
12	Bachelor of Science in Information and Communication	1,100,000TZS	Full Time

SN.	Programme Name	Fee	Mode of Study
	<u>Technology</u> Fee: 1,100,000TZS Mode of study: Full Time		
13	<u>Bachelor of Science in Natural Resources Conservation</u> Fee: 1,100,000TZS Mode of study: Full Time	1,100,000TZS	Full Time
14	<u>Bachelor of Science with Education</u> Fee: 1,100,000TZS Mode of study: Full Time	1,100,000TZS	Full Time
15	<u>Bachelor of Sciences in Biotechnology</u> Fee: 1,100,000TZS Mode of study: Full Time	1,100,000TZS	Full Time
16	<u>Bachelor of Technical Education in Architectural Technology</u> Fee: 1,100,000TZS Mode of study: Full Time	1,100,000TZS	Full Time
17	<u>Bachelor of Technical Education in Civil Engineering</u> Fee: 1,100,000TZS Mode of study: Full Time	1,100,000TZS	Full Time
18	<u>Bachelor of Technical Education in Electrical and Electronics Engineering</u> Fee: 1,100,000TZS Mode of study: Full Time	1,100,000TZS	Full Time
19	<u>Bachelor of Technical Education in Mechanical Engineering</u> Fee: 1,100,000TZS Mode of study: Full Time	1,100,000TZS	Full Time
20	<u>Bachelor of Technology in Architecture</u> Fee: 1,100,000TZS Mode of study: Full Time	1,100,000TZS	Full Time
21	<u>Bachelor of Technology in Landscape Architecture</u> Fee: 1,100,000TZS Mode of study: Full Time	1,100,000TZS	Full Time
22	<u>Certificate in Agribusiness with Technology</u> Fee: 700,000TZS Mode of study: Full Time	700,000TZS	Full Time
23	<u>Certificate in Business Administration</u> Fee: 700,000TZS Mode of study: Full Time	700,000TZS	Full Time
24	<u>Diploma in Agribusiness with Technology</u> Fee: 700,000TZS Mode of study: Full Time	700,000TZS	Full Time
25	<u>Diploma in Architecture</u> Fee: 900,000TZS Mode of study: Full Time	900,000TZS	Full Time
26	<u>Diploma in Automotive and Autoelectrical Engineering</u> Fee: 900,000TZS Mode of study: Full Time	900,000TZS	Full Time
27	<u>Diploma in Biomedical Equipment Engineering</u> Fee: 900,000TZS Mode of study: Full Time	900,000TZS	Full Time
28	<u>Diploma in Biotechnology</u> Fee: 1,100,000TZS Mode of study: Full Time	1,100,000TZS	Full Time
29	<u>Diploma in Business Administration</u> Fee: 700,000TZS Mode of study: Full Time	700,000TZS	Full Time
30	<u>Diploma in Business Computing</u> Fee: 900,000TZS Mode of study: Full Time	900,000TZS	Full Time
31	<u>Diploma in Civil Engineering</u> Fee: 900,000TZS Mode of study: Full Time	900,000TZS	Full Time
32	<u>Diploma in Computer Engineering</u> Fee: 900,000TZS Mode of study: Full Time	900,000TZS	Full Time
33	<u>Diploma in Computer Science</u> Fee: 900,000TZS Mode of study: Full Time	900,000TZS	Full Time
34	<u>Diploma in Electrical and Electronic Engineering</u> Fee: 900,000TZS Mode of study: Full Time	900,000TZS	Full Time

SN.	Programme Name	Fee	Mode of Study
35	<u>Diploma in Electronics and Telecommunication Engineering</u> Fee: 900,000TZS Mode of study: Full Time	900,000TZS	Full Time
36	<u>Diploma in Food Science and Technology</u> Fee: 900,000TZS Mode of study: Full Time	900,000TZS	Full Time
37	<u>Diploma in Highway Engineering</u> Fee: 900,000TZS Mode of study: Full Time	900,000TZS	Full Time
38	<u>Diploma in Information and Communication Technology</u> Fee: 900,000TZS Mode of study: Full Time	900,000TZS	Full Time
39	<u>Diploma in Laboratory Science and Technology</u> Fee: 900,000TZS Mode of study: Full Time	900,000TZS	Full Time
40	<u>Diploma in Mechanical Engineering</u> Fee: 900,000TZS Mode of study: Full Time	900,000TZS	Full Time
41	<u>Diploma in Mechanical Engineering with Industrial Safety and Occupational Health</u> Fee: 900,000TZS Mode of study: Full Time	900,000TZS	Full Time
42	<u>Diploma in Mechatronics Engineering</u> Fee: 900,000TZS Mode of study: Full Time	900,000TZS	Full Time
43	<u>Diploma in Mining Engineering</u> Fee: 900,000TZS Mode of study: Full Time	900,000TZS	Full Time
44	<u>Diploma of Business Administration in Accounting and Finance</u> Fee: 700,000TZS Mode of study: Full Time	700,000TZS	Full Time
45	<u>Diploma of Business Administration in Marketing and Entrepreneurship</u> Fee: 700,000TZS Mode of study: Full Time	700,000TZS	Full Time
46	<u>Diploma of Technical Education in Architectural Technology</u> Fee: 900,000TZS Mode of study: Full Time	900,000TZS	Full Time
47	<u>Diploma of Technical Education in Civil Engineering</u> Fee: 900,000TZS Mode of study: Full Time	900,000TZS	Full Time
48	<u>Diploma of Technical Education in Electrical and Electronics Engineering</u> Fee: 900,000TZS Mode of study: Full Time	900,000TZS	Full Time
49	<u>Diploma of Technical Education in Mechanical Engineering</u> Fee: 900,000TZS Mode of study: Full Time	900,000TZS	Full Time
50	<u>Doctor of Philosophy in Civil Engineering</u> Fee: 3,000,000TZS Mode of study: Full Time	3,000,000TZS	Full Time
51	<u>Doctor of Philosophy in Information Science and Engineering</u> Fee: 3,500,000TZS Mode of study: Full Time	3,500,000TZS	Full Time
52	<u>Doctor of Philosophy in Mechanical Engineering</u> Fee: 3,500,000TZS Mode of study: Full Time	3,500,000TZS	Full Time
53	<u>Master of Engineering in Renewable Energy</u> Fee: 3,000,000TZS Mode of study: Full Time	3,000,000TZS	Full Time
54	<u>Master of Science in Applied Mathematics</u> Fee: 3,000,000TZS Mode of study: Full Time	3,000,000TZS	Full Time
55	<u>Masters of Biodiversity Conservation</u> Fee: 3,000,000TZS Mode of study: Full Time	3,000,000TZS	Full Time
56	<u>Masters of Engineering in Clean Energy Technology</u> Fee: 3,000,000TZS Mode of study: Full Time	3,000,000TZS	Full Time
57	<u>Masters of Science in Civil Engineering</u> Fee: 2,500,000TZS Mode	2,500,000TZS	Full Time

SN.	Programme Name	Fee	Mode of Study
	<u>of study: Full Time</u>		
58	<u>Masters of Science in Energy Engineering</u> Fee: <u>3,000,000TZS</u> Mode of study: Full Time	3,000,000TZS	Full Time
59	<u>Masters of Science in Information Technology</u> Fee: <u>3,000,000TZS</u> Mode of study: Full Time	3,000,000TZS	Full Time
60	<u>Postgraduate Diploma in Technical Education</u> Fee: <u>2,000,000TZS</u> Mode of study: Full Time	2,000,000TZS	Full Time

Campus Life - Students Organization

[Home](#) | Students Organization

Mbeya University of Science and Technology Students Organisation (MUSTSO) is provided for by University Charter. The aim is to provide students with experience and training in a democratic form of government. The organisation is charged with the duty of continuously expanding and coordinating students' activities, stimulating interest and support in the development, assessment and execution of educational, social, cultural and recreational programs. It also seeks to develop communication amongst students, administration and departments. The organization is further intended to inculcate in the students a sense of integrity, self respect, devotion, commitment and accountability to the Tanzanian society and mankind they are bound to serve. MUSTSO in collaboration with the office of Dean of Students liaises with relevant University Organs to organize debates, seminars, study tours and symposia to enhance intellectual awareness of the student community. Student's government Executive arm is composed of two voting members- President and Vice President. Non-voting members of the MUSTSO Executive government include: the Prime Minister, the General Secretary and Ministers. Other organs of MUSTSO are the Students' Parliament and the Judicial Organ.

Campus Life - Must Students Accomodation

[Home](#) | Must Students Accomodation

ACCOMMODATION

One of the most important welfares to the students is accommodation services. The University has established Students Accommodation Bureau to manage accommodation facilities and its maintenance. The bureau is manned by the Bureau Manager and monitored by the Bureau Board. However, the University has limited number of bed spaces to accommodate all students on-campus.

The situation necessitates therefore that students who do not get on-campus accommodation are advised to look for off-campus accommodation in residential areas near the University or elsewhere. There are a number of private houses and few student hostels near the University to cater for both female and male students.

Fees for on-campus accommodation are set by the University and reviewed from time to time as the need be while for off-campus accommodation is a negotiable between the owner of the house/hostel and the student.

- **Room Allocation**

Students are allocated room space after applied for on-campus accommodation in consideration of criteria for allocating accommodation to students available in the Students Accommodation Policy 2016.

The rooms in the University hostel blocks will be furnished with beds, mattress, and few tables and chairs in some rooms. You are not allowed to remove fittings in the rooms and you are responsible for the proper care of all the property. Any damage or loss must be reported immediately to the Warden/Bureau Manager. The MUST Students By- Laws 2014 and Students Accommodation guidelines 2017 stipulates all accommodation disciplinary offences.

- **Harmonious Living**

You will be expected to live peacefully with one another in their allocated rooms. If at all you are found to be misbehaving towards your roommate you shall be evicted from the room. Misbehaving includes but is not limited to being drunk, smoking and/or drug abuse inside the room, bringing unauthorized guests into the room, and immoral acts in the presence of roommates in the room and/or within the hostel block premises. Some students find it challenging to live in harmony with a new roommate(s). In case of serious interpersonal conflicts you should report to the warden/ janitor and Bureau Manager so that a resolution may be found.

- **Safety and Security**

The University is generally a safe environment; however you are advised not to entertain strangers in your rooms. In case of theft or suspicious activity you should report to the warden/security office located at the reception.

CATERING SERVICES

At the University there is a cafeteria used to serve meals to government and private sponsored Ordinary Diploma students who paid the prescribed fees for meal services at the University cafeteria. Other students including undergraduates they get meal services at the MUST Social Club, Baba/Mamalishe sheds and from food vendors around the University with a reasonable price. The MUST Social Club and Baba/Mamalishe sheds are regularly evaluated for food safety and quality standards and control of the prices. However, the University cannot assure you of the food safety, quality and standards of foods served by food vendors around the University.

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The current MUSTSO President is MR Yohana Lucas and his vice Josephine Bha

Campus Life - Medical Care

Home | Medical Care campus

All students are eligible to medical care to all health service centers and hospitals which are accredited by the National Health Insurance Fund (NHIF) upon presentation of NHIF cards. The University has a dispensary where students can access health services. The services offered include medical consultation, laboratory services, wound dispensing, and life skills. The complicated health problems are referred to Mbeya Referral Hospital and Mbeya Zonal Referral Hospital.

Any student in need of health problem assistance, may contact the University Dispensary In-Charge through 0767 411 079 at any time.

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minimum of "D" grade in Physics, Chemistry
and Mathematics at O-Level.

4. Bachelor of
Technology
in
Architecture

MB004 Two principal passes at least "D" grade in
Advanced Mathematics and Physics or
Chemistry or Geography. in addition, an

applicant must have minimum pass of “D”
grade in Mathematics, Physics,
Chemistry/Geography at O level.
4.0 80 4

5. Bachelor of
Mechanical
Engineering
MB005 Two principal passes in Advanced
Mathematics and Physics at a minimum of “D”
grade. In addition, an applicant must have a
minimum of “D” grade in Physics, Chemistry
and Mathematics at O-Level.
4.0 100 4

6. Bachelor of
Computer
Engineering
MB006 Two principal passes of at least “D” grade in
Advanced Mathematics and Physics. In
addition, an applicant must have minimum
pass of “D” grade in Mathematics, Physics and
Chemistry at O level.
4.0 50 4

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7. Bachelor of
Science
with
Education
MB007 Two principal passes in the following
subjects: Physics, Advanced Mathematics,
Chemistry or Biology at a minimum of “D”
grade. In addition, an applicant must have a
minimum of “D” grade in Basic Mathematics,
Physics, Chemistry and Biology at O-Level.
4.0 160 3

8. Bachelor of
Laboratory
Sciences
and
Technology
MB008 Two principal passes in Biology and either
Chemistry or Physics at a minimum of “D”
grade. In addition, an applicant must have a
minimum of “D” grade in Basic Mathematics,
Physics, Chemistry and Biology at O-Level.
4.0 130 3

9. Bachelor of
Engineering
in
Telecommu
nication
Systems

MB009 Two principal passes in Advanced Mathematics and Physics at a minimum of “D” grade. In addition, an applicant must have a minimum pass of “D” in Mathematics, Physics and Chemistry at O level.

4.0 50 4

10. Bachelor of
Computer
Science

MB010 Two principal passes of Advanced Mathematics and Physics or Chemistry at a minimum of “D” grade. In addition, an applicant must have a minimum pass of “D” grade in Basic Mathematics and English at O-level.

4.0 65 3

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11. Bachelor of
Science in
Information
and
Communica
tion
Technology

MB011 Two Principal passes in the following subjects: Advanced Mathematics, Physics, Geography, Biology, Chemistry and Economics at a minimum of “D” grade. In addition, an applicant must have a minimum pass of “D” grade in Basic Mathematics and English at O- level.

4.0 65 3

12. Bachelor of
Technical
Education

in Electrical
and
Electronics
Engineering

MB012 Two principal passes in Advanced Mathematics and Physics at a minimum of “D” grade. If one of the principal passes is not either Advanced Mathematics or Physics an applicant must have a principal pass in one of the following subjects: Chemistry or Geography or Biology. In addition, an applicant must have minimum of “D” grade in Basic Mathematics, Physics and Chemistry at O level.

4.0 120 4

13. Bachelor of
Technical
Education
in
Mechanical
Engineering

MB013 Two principal passes in Advanced Mathematics and Physics at a minimum of “D” grade. If one of the principal passes is not either Advanced Mathematics or Physics an applicant must have a principal pass in one of the following subjects: Chemistry or Geography or Biology. In addition, an applicant must have minimum of “D” grade in Mathematics, Physics and Chemistry at O

4.0 120 4

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level.

14. Bachelor of
Technical
Education
in Civil
Engineering

MB014 Two principal passes in Advanced Mathematics and Physics at a minimum of “D” grade. If one of the principal passes is not either Advanced Mathematics or Physics an applicant must have a principal pass in one of the following subjects: Chemistry or Geography or Biology; In addition, an

applicant must have minimum pass of “D” in Mathematics, Physics and Chemistry at O level.

4.0 120 4

15. Bachelor of
Technical
Education
in
Architectur
al
Engineering

MB015 Two principal passes in Advanced Mathematics and Physics at a minimum of “D” grade. If one of the principal passes is not either Advanced Mathematics or Physics an applicant must have a principal pass in one of the following subjects: Chemistry or Geography or Biology. In addition, an applicant must have a minimum of “D” grade in Mathematics, Physics and Chemistry/Geography at O level.

4.0 120 4

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16. Bachelor of
Technology
in
Landscape
Architectur
e

MB016 Two principal passes at least” D” grade at Advanced Level in Biology and Physics or Chemistry or Geography at A-Level. In addition, an applicant must have a minimum of “D” in Mathematics, Physics, Biology and Chemistry/Geography at O-level.

4.0 40 4

17. Bachelor of
Engineering
in Data
Science

MB017 Two principal passes of at least “D” grade in Mathematics and Physics at A-level; In addition, an applicant must have a minimum of “D in Mathematics, Physics and Chemistry at O level.

4.0 50 4

18. Bachelor of
Science in
Food
Science and
Technology

MB018 Two principal passes in Chemistry and one of the following: Biology, Physics, Nutrition, Agriculture, Advanced Mathematics or Geography at a minimum of “D” grade. In addition, an applicant must have a minimum of “D” grade in Physics or Chemistry, Biology and Basic Mathematics at O-level.

4.0 60 3

19. Bachelor of
Science in
Natural
Resources
Conservation

MB019 Two principal passes in Biology and one of the following subjects: Chemistry, Geography, Agriculture, Nutrition at a minimum of “D” grade: In addition, an applicant must have a minimum of “D” grade in Biology and Chemistry or Geography or Agriculture or Nutrition at O-Level.

4.0 90 3

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20. Bachelor of
Agribusiness
Management
and
Technology

MB020 Two principal passes in the following subjects: Biology, Geography, Agriculture, Physics, Chemistry, Advanced Mathematics, Economics, History, Food and Nutrition, Commerce or Accountancy. In addition, an applicant must have a pass in four subjects at O-level, of which one must be among the following; Biology, Agriculture or Geography.

4.0 200 3

21. Bachelor of
Science in

Environmental Science
and
Technology

MB021 Two principal passes of at least “D” grade in Chemistry, Physics, Biology, Advanced Mathematics or Geography at A-level. In addition, an applicant must have a minimum pass of “D” in Biology and Mathematics at O-Level.

4.0 80 3

22. Bachelor of
Science in
Biotechnology

MB022 Two principal passes of at least “D” grade at Advanced Level in Mathematics, Biology and Chemistry or Physics. In addition, an applicant must have a minimum of “D” grade in one of the following subjects: Physics, Geography, Nutrition or Agriculture at O-Level.

4.0 40 3

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23. Bachelor of
Science in
Chemistry

MB023 Two principal passes in Chemistry and in one of the following subjects: Physics, Mathematics, Biology, Geography or Nutrition. In addition, an applicant MUST have passes in chemistry, physics and mathematics at O’ Level.

4.0 40 3

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Mbeya University of Science and Technology (MUST)– Rukwa Campus College
S/N Programme Code Admission Requirements

Minimum
Institutional
Admission
points
Admission
Capacity
Programme
Duration
(Yrs)

1. Bachelor of
Business
Administration

MBR01 Two principal passes in the following subjects:

History, Geography, Kiswahili, English Language,
French, Arabic, Fine Arts, Economics, Commerce,
Accountancy, Physics, Chemistry, Biology, Advanced
Mathematics, Agriculture, Computer Science or
Nutrition.

4.0 60 3

2. Bachelor of
Mechanical
Engineering

MBR02 Two principal passes in Advanced Mathematics and
Physics at a minimum of “D” grade. In addition, an
applicant must have a minimum of “D” grade in
Physics, Chemistry and Mathematics at O-Level.

4.0 40 4

Library - Rules and Regulations

Home | Rules and Regulations

1

All registered staff and students of MUST are entitled to use the library services. Users must have current MUST identity card which must be produced when borrowing library materials and at any time on the request.

2

The person registered and given library borrowing cards is responsible for all materials borrowed on those cards. Lost or stolen cards should be reported immediately to the library office which issued them. Replacement of lost borrowing cards will be charged TShs. 500 per card.

3

All materials borrowed from the library must be returned by the due date and time. Borrowers with overdue materials may not be permitted to borrow additional items or renew other items until such time as all overdue items are returned.

4

Any borrower, who fails to return books from the lending section on the due date shall pay a fine of 500 shillings per book each day until the book has been returned. The fine for special reserve items is Tsh.500 per day.

5

Users are liable for the cost of replacement or repair of all materials lost, damaged or defaced while on loan to them.

6

Students may borrow up to two books which they may keep for two weeks. Teaching staff may borrow books for three weeks.

7

Books may be renewed for a further period. No book may be renewed a second time.

8

Library reserves the right to call back any issued book/ item at any time.

9

The Director of Library Services shall reserve the right, subject to the approval of the Library Board, to prohibit or restrict the borrowing of certain kind of books. He/ she also reserves the right, subject to the approval of Library Board to exclude any person from using the library owing to persistent disrespect of the library regulations, or any other adequate reasons which shall be considered to be undesirable in his/her opinion.

10

Unauthorized removal or attempted unauthorized removal of any item from the library will be regarded as a serious offence.

11

Library users must abstain from behavior which would cause disturbance to other users. The library is a study area and noise must be kept to a minimum.

12

Smoking, eating and drinking in the library are forbidden, and users should not bring food and/or drink to the library.

13

Readers must not take bags, briefcases, etc into the library.

14

Library staff are authorized to take appropriate action to ensure that all library users comply with these regulations.

15

Breach of these regulations may lead to disciplinary procedures including those specified in the University students by laws and Staff Regulations.

Student Information Management System (SIMS) - Mbeya University of Science and Technology (MUST)

Author: MUST Directorate of Information and Communication Technology (ICT)

1.0 Introduction

This document outlines the functional specifications for a new, integrated Student Information Management System (SIMS) for Mbeya University of Science and Technology. The current system is fragmented, leading to inefficiencies for students, academic staff, and administrative departments. The proposed SIMS aims to provide a centralized, secure, and user-friendly platform that streamlines all core student-related processes, from admission to graduation, enhancing the overall academic experience at MUST.

2.0 Vision and Objectives

Vision: To be a state-of-the-art digital ecosystem that empowers students, facilitates staff, and drives data-informed decision-making at MUST.

Objectives:

To centralize and securely manage all student personal and academic data.

To provide real-time access to academic results and performance metrics for students and authorized staff.

To digitize and streamline key processes like Industrial Practical Training (IPT) and NHIF applications.

To improve communication between students, academic supervisors, and administrative departments.

To reduce paperwork, minimize errors, and improve administrative efficiency.

To provide students with a single portal for all their academic needs.

3.0 System Architecture & User Roles

The SIMS will be a role-based web application accessible via any modern browser.

Students: Access their own information, view results, apply for services.

Academic Staff (Lecturers/Facilitators): Upload CA results, view student lists, act as IPT supervisors.

Examination Department: Upload and verify final exam results, calculate and publish GPAs, generate examination numbers.

IPT Coordinator: Manage field placements, approve applications, assign supervisors.

Finance Department: Verify NHIF payments, manage financial records linked to student accounts.

Administrator (ICT): Manage user accounts, system configuration, and security.

4.0 Core Functional Modules

4.1 Student Personal Information Management

Functionality: A secure, centralized database to store and manage student biodata.

Data Stored:

Full Name, Gender, Date of Birth

Registration Number, Programme, Year of Study

Contact Information (Phone, Email)

Next of Kin Details

Passport-sized Photograph

Features: Students can view and update certain contact details (self-service), subject to administrative approval to maintain data integrity.

4.2 Academic Results Management

Functionality: To display continuous assessment (CA) and semester examination (SE) results.

Process:

Facilitators upload CA marks for their respective courses into the system.

The Examination Department uploads, verifies, and locks the final semester exam results.

The system automatically calculates the Semester GPA and Annual/Cumulative GPA based on approved university grading schemes.

Student View: Students can log in to view:

A breakdown of marks per course (CA, SE, Total).

Semester Transcript showing GPA.

Academic transcript showing cumulative progress.

4.3 Examination Administration

Functionality: To generate and display examination numbers for official university exams.

Process: As the examination period approaches, the Examination Department triggers the system to generate unique exam numbers for each eligible student per course.

Student View: Students can log in to their dashboard to:

See a clear notification that exam numbers are available.

View and print their exam slip, which contains their exam number, course name, exam date, time, and venue.

4.4 Industrial Practical Training (IPT) Management

Functionality: A complete workflow for managing student field practical training.

Process:

Application: Students apply for IPT online by filling a digital form (proposed placement, duration, etc.).

Approval: The IPT Coordinator and assigned academic supervisor review and approve the application.

Placement: The system tracks the student's placement status.

Submission: Students upload their Arrival Note and later their Final Report directly through the SIMS.

Supervisor Assignment: Students can see the name and contact information of their officially assigned academic supervisor within the IPT module.

Features: Notification alerts for pending actions (e.g., "Application Approved", "Please Submit Arrival Note").

4.5 NHIF Services Integration

Functionality: To facilitate the application and payment for NHIF coverage.

Process:

Application: Students fill an online NHIF application form within SIMS. The system pre-populates known data (Name, Reg. No.).

Control Number Generation: Upon application, the system generates a unique payment control number linked to the student's record.

Payment: Students can pay via the integrated university payment gateway (e.g., MPesa, Mix by Yas, Halotel, Airtel money, Bank Transfer) or obtain the control number to pay directly at NHIF offices/banks.

Verification: The Finance Department verifies payment confirmation and updates the student's status to "NHIF Covered".

Student View: Students can see their application status, control number, and payment confirmation status.

4.6 Virtual Learning Environment (VLE) Module

Functionality: An integrated platform for facilitating blended and online learning.

Key Features:

Course Management: Lecturers can create course pages for each unit they teach, populated automatically with enrolled students.

Live Online Sessions: Integrated video conferencing tools (e.g., BigBlueButton, Zoom integration) for lectures, tutorials, and guest speeches. Sessions can be recorded and stored for later access.

Learning Materials: Lecturers can upload lecture notes, slides, readings, and video recordings to a centralized repository for each course.

Online Assignments & Tests:

Facilitators can create and deploy quizzes, tests, and exams with various question types (multiple choice, essay, short answer).

Features like time limits, randomized questions, and auto-grading (for objective questions).

Grades from these assessments are automatically fed into the Academic Results module as CA marks.

Communication Tools: Discussion forums, announcement boards, and direct messaging to foster interaction between students and lecturers.

4.7 Accommodation Management Module

Functionality: To manage the application, allocation, and payment for university hostel accommodation.

Process:

Application Window: The Accommodation Officer opens application windows for each academic year/semester.

Student Application: Students apply online through the SIMS, indicating their hostel preference.

Control Number & Payment: The system generates a unique control number for accommodation fees. Students pay via the integrated payment gateway.

Verification & Allocation: The Accommodation Officer verifies payments and allocates rooms based on availability, year of study, and other criteria. The process can be automated or manual.

Confirmation: Students receive an automatic notification and allocation letter detailing their hostel name and room number upon successful allocation.

Features: A dashboard for the Accommodation Officer to view occupancy rates, manage room inventory, and handle special allocation requests.

1.17 UNIVERSITY COLLABORATION

The University collaborates with peer universities and other higher learning institutions. Currently, the University is

collaborating with various international higher learning institutions including; The University of Texas Rio Grande

Valley (UTRGV), the University of Applied Sciences Burgenland in Austria, Southern Methodist University (SMU),

Malawi University of Science and Technology, Kassel Through East Africa Network of Learning Administrators

(EANLA), Hanze University of Applied Sciences in the Netherlands, Meru University of Science and Technology

(MUST-Kenya), Chuka University in Kenya, Acharya Institutes (ACHARYA) in India.

National wise, the University has Memoranda of Understanding in academic activities with the University of Dar es

Salaam, Ardhi University (ARU), University of Dodoma (UoD), Confucius Institute at the University of Dar es Salaam, Sokoine University of Agriculture (SUA), Muhimbili University of Health and Allied Sciences (MUHAS), The Open University of Tanzania (OUT), Dar es Salaam Institute of Technology (DIT), Arusha Technical College (ATC), Ardhi Institute -Morogoro (ARIMO), Teofilo Kisanji University (TEKU) and The Technical Education and Training (TVET).

Furthermore, the University is collaborating with other non-academic institutions and companies including;

- i. United Nations Development Program (UNDP),
- ii. Tanzania Industrial Research and Development Organization (TIRDO),
- iii. Small Industries Development Organization (SIDO),
- iv. Tanzania Communications Regulatory Authority (TCRA),
- v. e-Government,
- vi. Mbeya Cement,
- vii. MIC Tanzania Limited (TIGO),
- viii. HELP TO HELP,
- ix. All Green Energy,
- x. Rujewa Integrated Efforts to Fight Poverty (RIEFP),
- xi. HUAWEI,
- xii. Mwanza Polytechnic Institute (MWAPOI),
- xiii. K'S Hospital,
- xiv. Youth For Africa (YOA),
- xv. YARA Tanzania Ltd,
- xvi. Tanzania Geothermal Development Company (TGDC),
- xvii. Tanzania Agricultural Research Institute (TARI),
- xviii. Nature Tanzania,
- xix. Ifakara Health Institute,
- xx. Mbeya Zonal Referral Hospital,
- xxi. Universal Communications Service Access Fund (UCSAF) – Tanzania, and
- xxii. Tanzania Engineering and Manufacturing Design Organization (TEMDO).

2.0 UNIVERSITY CERTIFICATE, DIPLOMA AND BACHELOR DEGREE AWARDS

2.1 DIPLOMA AND BACHELOR DEGREES OFFERED BY THE COLLEGE OF ENGINEERING AND TECHNOLOGY (CET)

- a) Diploma in Civil Engineering;
- b) Diploma in Highway Engineering;
- c) Diploma in Electrical and Electronic Engineering;
- d) Diploma in Mechanical Engineering;
- e) Diploma in Mechatronics Engineering

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- f) Diploma in Mining Engineering;
- g) Diploma in Mechanical Engineering with Industrial Safety and Occupational Health;
- h) Diploma in Automotive and Auto electrical Engineering;
- i) Bachelor of Civil Engineering;
- j) Bachelor of Electrical and Electronic Engineering and
- k) Bachelor of Mechanical Engineering.

2.2 DIPLOMA AND BACHELOR DEGREE PROGRAMMES OFFERED BY THE COLLEGE OF ARCHITECTURE AND CONSTRUCTION TECHNOLOGY (CoACT)

- a) Diploma in Architecture;
- b) Bachelor of Technology in Architecture and
- c) Bachelor of Technology in Landscape Architecture.

2.3 DIPLOMA AND BACHELOR DEGREE PROGRAMMES OFFERED BY THE COLLEGE OF

INFORMATION AND COMMUNICATION TECHNOLOGY (CoICT)

- a) Diploma in Computer Engineering;
- b) Diploma in Computer Science;
- c) Diploma in Information and Communication Technology;
- d) Diploma in Electronic and Telecommunication Engineering;
- e) Diploma in Business Computing;
- f) Bachelor of Computer Engineering;
- g) Bachelor of Computer Science;
- h) Bachelor of Science in Information and Communication Technology;
- i) Bachelor of Engineering in Telecommunication Systems; and
- j) Bachelor of Engineering in Data Science

2.4 DIPLOMA AND BACHELOR DEGREE PROGRAMMES OFFERED BY THE COLLEGE OF

SCIENCE AND TECHNICAL EDUCATION (CoSTE)

- a) Diploma in Biomedical Equipment Engineering;
- b) Diploma in Laboratory Science and Technology;
- c) Diploma in Food Science and Technology;
- d) Diploma of Technical Education in Architectural Technology;
- e) Diploma of Technical Education in Civil Engineering;
- f) Diploma of Technical Education in Electrical and Electronic Engineering;
- g) Diploma of Technical Education in Mechanical Engineering;
- h) Diploma in Biotechnology;
- i) Bachelor of Technical Education in Architectural Technology;
- j) Bachelor of Technical Education in Civil Engineering;
- k) Bachelor of Technical Education in Electrical and Electronics Engineering;
- l) Bachelor of Technical Education in Mechanical Engineering;
- m) Bachelor of Science with Education in the following specializations;
 - Chemistry and Biology
 - Chemistry and Mathematics
 - Chemistry and Physics
 - Physics and Mathematics
- n) Bachelor of Laboratory Science and Technology;
- o) Bachelor of Science in Food Science and Technology
- p) Bachelor of Science in Natural Resources Conservation
- q) Bachelor of Science in Chemistry;
- r) Bachelor of Science in Biotechnology; and
- s) Bachelor of Science in Environmental Science and Technology.

2.5 CERTIFICATE, DIPLOMA AND BACHELOR DEGREE PROGRAMMES OFFERED BY THE

COLLEGE OF HUMANITIES AND BUSINESS STUDIES (CoHBS)

- a) Certificate in Business Administration;
- b) Certificate in Agribusiness with Technology;
- c) Diploma in Business Administration;
- d) Diploma in Agribusiness with Technology;
- e) Diploma of Business Administration in Accounting and Finance;

f) Diploma of Business Administration in Marketing and Entrepreneurship;

g) Bachelor of Business Administration with the following specialization:

- Accounting and Finance;
- Human Resources Management;
- Marketing and Entrepreneurship and
- Procurement and Supply Chain Management.

h) Bachelor of Agribusiness Management and Technology.

2.6 DIPLOMA AND BACHELOR DEGREE PROGRAMMES OFFERED BY THE COLLEGE OF

AGRICULTURAL SCIENCES AND TECHNOLOGY (CoAST)

a) Diploma in Food Science and Technology; and

b) Bachelor of Science in Food Science and Technology.

2.7 CERTIFICATES, DIPLOMA AND BACHELOR DEGREE PROGRAMMES OFFERED BY MUST

RUKWA CAMPUS COLLEGE (MRCC)

a) Certificate in Business Administration;

b) Diploma in Business Administration;

c) Diploma in Mechanical Engineering;

d) Bachelor of Mechanical Engineering and

e) Bachelor of Business Administration with the following specialization: -

- Accounting and Finance
- Human Resources Management
- Marketing and Entrepreneurship
- Procurement and Supply Chain Management.

3.0 ACTIVITIES UNDER THE CENTRE FOR VIRTUAL LEARNING AND CONTINUING EDUCATION

i. Managing and Administering Short courses Programmes.

ii. Managing and Administering Distance Learning Programmes.

iii. Managing and administering courses through Flexible Skills Development.

4.0 GRADUATION AWARDS FOR STUDENTS

The following list indicates the types of academic awards/prizes offered by the University:

i. Chancellor's Prize

ii. University Best Female Student Award

iii. Undergraduate Programme Award

iv. Best Student's Final Project Award

v. Best Research Award

vi. Innovation Award

vii. Individual/Organisation/Company Prizes

MUST Prospectus 2024/2025

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5.0 FEES AND BURSARIES

Students pursuing Diploma Programmes may join the University under either Government sponsorship, private sponsorship

or may apply for scholarships or loans from the Higher Education Students Loan Board (HESLB) and Students pursuing

Bachelor Programmes may apply for scholarships or loans from the Higher Education Students Loan Board (HESLB) also

may join the University under private sponsorship.

Note: Fees may change due to prevailing circumstances. The fee structure for Government and privately sponsored students are as shown in the following tables:

5.1 FEE STRUCTURE FOR DIPLOMA STUDENTS (UQF 6)

5.1.1 GOVERNMENT SPONSORED STUDENTS

Table 1: Fee structure for Diploma government sponsored students in (TZS)

S/N	Item	1st Year	2nd Year	3rd Year
1.	Tuition fee (cost sharing fee) - -	130,000		
2.	Other Expenses			
i.	Caution Money (Non-refundable)	20,000	- -	
ii.	Hiring University mattress	10,000	10,000	10,000
iii.	Hiring University bed	10,000	10,000	10,000
iv.	Library membership fees	30,000	30,000	30,000
v.	Examination fee	50,000	50,000	50,000
vi.	Certification	40,000	- -	
vii.	Students' Organization fee	10,000	10,000	10,000
viii.	Registration fee	10,000	10,000	10,000
ix.	Student's Identity Card	10,000	10,000	10,000
x.	Medical Contribution (NHIF)	50,400	50,400	50,400
xi.	Capitation fee	10,000	10,000	10,000
xii.	Prospectus - - -			
xiii.	Quality Assurance fee (TCU)	20,000	20,000	20,000
xiv.	Graduation gowns	40,000	- -	
xv.	Transcript fee	10,000	- -	
	Sub-total; Other Expenses	320,400	210,400	210,400
	Total fees	320,400	210,400	340,400

Table 2: Payment Options (TZS)

Tuition fee - -	130,000
Other Expenses	320,400 210,400 210,400
Semester I	320,400 210,
Semester II –	65,000

5.1.2 PRIVATE SPONSORED STUDENTS (UQF 6)

Table 3: Fee structure for Diploma in Engineering, Architecture, Science Courses and Business computing (1st Year) private sponsored students in (TZS)

S/N	Item	In campus	Off campus
	Meals and accommodation	Accommodation Only	
1	Tuition fee	900,000	
2	Other Expenses		
i.	Meal Costs	1,176,000	
ii.	Accommodation Fee	107,100	
iii.	Caution money	20,000	
iv.	Library membership fees	30,000	
v.	Examinations fee	50,000	
vi.	Certification	40,000	
vii.	Students' Organization fee	10,000	

viii. Registration fee	10,000		
ix. Student's Identity Card	10,000		
x. Medical Contribution (NHIF)	50,400		
xi. Capitation fee	10,000	10,000	10,000
xii. Prospectus	- - -		
xiii. Quality Assurance fee (TCU)	20,000	20,000	20,000
xiv. Graduation gown	40,000	40,000	40,000
xv. Transcript fee	10,000	10,000	10,000
xvi. Sub-total; Other Expenses	1,583,500	407,500	300,400
xvii. Total fees	2,483,500	1,307,500	1,200,400

Table 4: Payment Options (TZS)

In campus Off campus

Meals and

accommodation

Accommodation only

Tuition fee 900,000 900,000 900,000

Other Expenses 1,583,500 407,500 300,400

Semester I 1,445,500 857,500 750,400

Semester II 1,038,000 450,000 450,000

Table 5: Fee Structure for Certificate and Diploma in Business Administration and Agri business

Course (1st Year) Private

sponsored students in (TZS)

S/N Item In campus Off campus

Meals and accommodation Accommodation

Only

1. Tuition fee 700,000

5.3 INSTALLMENTS PAYABLE

The tuition fee may be paid in TWO Instalments; ONE Instalment in each Semester, while all Other Expenses / Direct

Cost must be paid in full at the beginning of each academic year. Students are required to pay their fees by generating a

control number, the payment can be done through M-Pesa, Tigo Pesa and Airtel Money. The process of generating control

Number will be instructed in the University website (www.must.ac.tz),

6.0 GENERAL PROVISIONS

i. Admission to the University is open to bona fide students or persons meeting the entry requirements. Such

persons shall be required to go through registration formalities to confirm their status as bona fide students.

ii. To be admitted in the first year of study at Mbeya University of Science and Technology you must have

relevant certificates entitling him/her to go for the course he/she has applied for and duly approved by the

relevant authority or have other qualifications considered equivalent by the University.

iii. A student from a similar institution wishing to be admitted into the second year of study at MUST, must

have passed all examinations in the relevant programmes in the preceding year of study

v. No student from another institution shall be admitted to the final year of study at Mbeya University of Science and Technology.

v. A student, who has been admitted and does not report for registration in a particular year, may re-apply for

admission during the coming Academic year provided the admission requirements remain the same.

vi. A student who postponed studies for more than two consecutive academic years shall be deemed to have

terminated studies. Therefore, a student interested to continue with studies at University shall be required to

apply for re-admission in the first year of study.

6.1 APPLICATION FEES

Applicants must pay an application fee to be determined by the Council from time to time. All

Application fees shall

be payable to the University Bank Account directly or by using mobile phone after generating Control Number as

it will be directed in the application procedures of a particular academic year.

The filled Online Application Information must be submitted before the deadline set for Application submission of

the specific round in the online system

6.2 PAYMENT OF FEES

Students will only be registered upon payment of prescribed fees whose amount shall be determined from time to

time.

6.3 GUARANTEE OF SPONSORSHIP

Applications can only be considered once the University receives satisfactory evidence that the student will be

adequately financed during his or her course at the University. Applicants who need assistance to meet the

University fees and expenses should seek bursaries from funding organizations.

6.4 MBEYA UNIVERSITY OF SCIENCE AND TECHNOLOGY ACADEMIC YEAR

The academic year for Certificate, Diploma and Bachelor Degree Programmes will begin in October every year,

otherwise stated differently, and shall end as indicated by the University Academic Almanac.

6.5 REGISTRATION DEADLINE

Deadline of registration for all beginners shall be two weeks after the first day of Orientation Week.

The deadline

of registration for continuing students shall be two weeks after the University opens. All beginners shall have to

submit original certificates on the registration day and must attend orientation week without missing.

6.6 STUDENTS TRANSFER

Student transfers typically refer to the process where a student moves from one institution to another or within the

same institution. There are two forms of transfers namely; intra-university and inter-university transfers.

6.6.1 Intra-University Transfer

Intra-university transfer shall mean transfer from one-degree programme to another within Mbeya University of

Science and Technology. The conditions are as follows;

- a) A student shall be allowed to apply for transfer from one-degree programme to another provided they meet the minimum entry criteria of such programmes;
- b) A student will not be allowed to transfer from the degree programme to which he/she was admitted at MUST to another unless the following conditions are met:
 - i. Completion of registration and payment of University and Administrative fees
 - ii. Availability of a vacancy in the preferred programme;
 - iii. Meet the minimum admission requirements for the sought programme;
 - iv. Payment of a non- refundable fee of TZS. 10,000 for Tanzanian students or USD 30 for foreign students;
 - v. The application for transfer window will be opened and published on the University Website in the first semester;
 - vi. The candidate shall be required to pay all prescribed fees and other related costs arising from the transfer process to the new programme.

6.6.2 Inter-University Transfer

Inter-University Transfer shall mean transfer from one University to the other within the same or different programme provided the applicant meets minimum entry criteria of such programmes.

The transfer from other institutions to MUST for first year students shall be permissible under the following conditions:

- a) Must be admitted in other university during that particular academic year;
- b) The programme to which transfer is sought must have empty slots to accommodate students;
- c) The applicant must possess the minimum entry requirements for that particular degree programme;
- d) Before completing the application for Inter-University Transfer, a candidate shall be required to pay a TZS 50,000 non-refundable fee or such as shall be determined by the University Council;
- e) The University shall approve transfers in writing and submit them to TCU for validation within the set deadline;
- f) Other TCU regulations related to Inter University Transfer shall apply mutatis mutandis; and
- g) For Bachelor degree students, Student transfer shall only be accepted after receiving approval from TCU.

6.7 STUDENTS' NAMES

No change of names by students will be permitted during the course of study at the University and students will be allowed to use names appearing on certificates only which qualified them for

admission.

6.8 POSTPONEMENT OF STUDIES

No student is allowed to postpone studies after commencement of academic year, except under special circumstances. Permission to postpone studies will be considered after producing satisfactory evidence for the reasons of postponement and producing a written approval from one's sponsor. A student who has postponed studies shall be allowed to be away from studies for a maximum of two academic years only if she/he is to be allowed for registration to the same year of study. Otherwise, the student will be required to apply afresh for re-admission

COURSES OFFERED IN VARIOUS PROGRAMMES

8.1 COLLEGE OF ENGINEERING AND TECHNOLOGY (CET)

8.1.1 DEPARTMENT OF CIVIL ENGINEERING

Programmes

The Department offers the following Programmes:

- a) Diploma in Civil Engineering
- b) Diploma in Highway Engineering
- c) Bachelor of Civil Engineering

8.1.1.1 LABORATORIES AND WORKSHOPS

- i. Pneumatic and Hydraulics Laboratory
- ii. Soil and Materials Testing Laboratory
- iii. Land Surveying Laboratory

8.1.1.2 LIST OF STAFF

(Head of Department)

Dr. Partice Nyangi Mkono Ph.D. in Structural Engineering (HUST, China), MSc. Civil Eng. (USTHB, Algeria), BSc. Civil Eng. (USTHB, Algeria).

Professors:

Prof. Zacharia Katambara Ph.D. WRE (Witwatersrand-South Africa), MSc. WRE Engineering (UDSM), BSc Civil Engineering (UDSM)

Senior Lecturer:

Dr. Duwa H. Chengula Ph.D. Materials Science (Kassel University – Germany), MSc. Highway Eng. (UDSM) BSc. Civil Eng. (UDSM), FTC Civil Eng. (MTC)

Dr. Gislal Kifanyi Ph.D. WRE (Tshwane University of Technology – SA), MEM. (UDSM), PGD

(UDSM), BSc Civil Eng. (UDSM)

Lecturers:

Dr. Hieromin Mboya** Ph.D. Material Science and Eng. (Structural Material), MSc. Structural Eng. (UDSM), PGD Structural Eng. (UDSM), ADE Civil Eng. (DIT), FTC Civil Eng. (MTC).

Dr. Partice Nyangi Mkono Ph.D. in Structural Engineering (HUST, China), MSc. Civil Eng. (USTHB, Algeria), BSc. Civil Eng. (USTHB, Algeria).

Mr. Joseph K. Mnkeni MSc. Highway Eng. (UDSM), PGD Highway Eng. (UDSM), ADE Civil Eng. (DIT), FTC Civil Eng. (TCA)

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Assistant Lecturers

*Mr. Asson S. Malisa MSc. Materials Science Engineering, (NMAIST); BSc. Civil Engineering. (UDSM)

*Mr. George Lupakisyo MSc. WRE (UDSM), BSc Civil Engineering. (UDSM).

*Mr. Martin Swila MSc. Structural Engineering (UDSM), BSc. Civil Engineering, (UDSM)

Mr. Ivor J. Ndimbo Master of Technology Water Resources Development. (IIT-Roorkee INDIA);

BSc. Civil Engineering (UDSM).

Mr. Mathew A. Gwao MSc. Geographical Information Systems (UDSM) BSc. Land Survey (UDSM)

*Mr. Daudi J. Makelemo MSc. Construction Economics and Management (ARU), BSc. Civil Engineering (ARU).

*Mr. Richard M Mkindo MTech. Structural Eng. (NITK – India), Bachelor Civil Engineering (MUST)

Mr. Asifiwe Z. Swalo MTech. Transportation Eng. (NITK – India), Bachelor Civil Engineering (MIST),

Ordinary Diploma Civil Engineering (DIT).

Mr. Mussa G. Magaka MSc. Structural Engineering (UDSM), Bachelor Civil Engineering (MIST).

*Mr. Adam Shaaban Mgana MSc. Environmental Engineering (Cyprus International University- Cyprus), BSc.

Environmental Engineering (Cyprus International University- Cyprus), Diploma in Water Supply and Sanitation Engineering (Water Institute)

Mr. Kizito Patrick Mwilongo MSc. Materials Science and Engineering (Structural Materials) (Nelson Mandela

African Institution of Science and Technology, Arusha – Tanzania), BSc. Civil Engineering (St. Augustine University of Tanzania, Mwanza – Tanzania).

Tutorial Assistants

Mr. Venance R. Mwandupe BEng. Civil (MIST), FTC Civil Eng. (MTC),

Mr. Baraka Mosses BSc in Civil Engineering (Arusha Technical College)

*Ms Shamsa M. Nassibu Bachelor Civil Engineering (MUST), FTC Civil Eng. (TCA).
Mr. Cyriacus J. Rugakingira BSc. Civil (UDSM); FTC. Civil (Dar es Salaam Technical College)

Mr. George C. Lyimo BSc. Civil and Structural Engineering (UDSM); FTC. Civil (ATC)

Mr. Godfrey Mbungula Bachelor Civil Engineering (MUST), FTC (DIT)

Mr. Herfrid J. Mgeni ADE. Civil (MIST); FTC. Civil (MTC)

*Mr. Lameck Owiti Bachelor Civil Engineering (MUST)

Mr. Alfred B. Nyingi Bachelor Civil Engineering (MUST), OD. Civil (ATC)

Mr. Lameck Simon Kongo BSc. in Geoinformatics (Ardhi University)

Ms. Margaret S. Kironde BSc. in Environmental Science and Management

Mr. Tony Mbugi Bachelor of Civil Engineering (MUST), Diploma in Civil Engineering (MUST)

Mr. Isaac Sagamiko Bachelor of Civil Engineering (MUST).

Instructors

Mr. Valentino A. Chaffu MSc. in Civil Engineering (Maintenance Management) (DIT);
Bachelor Civil

Engineering (MIST), FTC in Civil Engineering (MTC).

Mr. Crodiwick W. Ruvunduka Bachelor Civil Engineering (DIT), Ordinary Diploma
Transportation Engineering
(TCA).

*Mr. Kizito A. Ngowi MSc. in Geographical Information System (UDSM), Bsc. Urban &
Reg. Planning
(ARU); Ordinary Diploma in Cartography (Ardhi Inst.-Tabora) .

Mr. Stephano S. Maduka Bachelor Civil Engineering (MUST, Ordinary Diploma in
Transportation
Engineering (ATC)*)

*Mr. Goodluck M. Masige MSc. Water and Sanitation Utility Management (AgroParis-
France), Bsc in Civil
Engineering (MUST)

Mr. Mohamed J. Mohamed MSc. Highway Eng. (UDSM), PGD Transportation Eng.
(UDSM), ADE Civil Eng.
(DIT), FTC Civil Eng. (DTC)

Mr. Edson B. Rogasian Bachelor Degree in Civil Engineering (MUST), Ordinary
Diploma in Civil
Engineering (MIST)

Technicians

Mr. Samwel J. Kihogo Bachelor Degree in Civil Engineering (MUST), Ordinary Diploma
in Civil
Engineering (MIST)

Mr. Aaron J. Maganga Bachelor Degree in Civil Engineering (MUST), FTC in Water
Laboratory
Technology (Water Resource Institute)

Mr. Nehemia Matabalo Bachelor Degree in Civil Engineering (MUST), OD. Civil Eng.
(MUST)

Ms. Editha Z. Faida Ordinary Diploma in Civil Engineering (MUST)

Artisans

Mr. Joseph Gesu Senior Artisan I

Mr. Lukonde Ng'andu Senior Artisan I

Office Secretary

Ms. Eliza Daniel Mwaisabila Diploma in Secretary and Ordinary Diploma in Business Administration

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8.1.1.3 PROGRAMME COURSES

DIPLOMA IN CIVIL ENGINEERING

A. Diploma in Civil Engineering (1st Year)

Semester I

Code Name Core or Elective Credits

MS 6128 Advanced Mathematics I Core 5

NS 6141 Advanced Physics I Core 5

HS 6117 Communication skills Core 5

IT 6116 Basic Computer Applications Core 5

HS 6116 Elements of Development Studies Core 5

CE 6101 Building Construction I Core 5

CE 6102 Building Workshop Practice I Core 10

CE 6103 Civil Engineering Materials I Core 9

CE 6104 Introduction to Engineering Drawing Core 8

CE 6105 Road Construction I Core 6

TOTAL 63

Semester II

Code Name Core or Elective Credits

MS 6129 Advanced Mathematics II Core 5

NS 6142 Advanced Physics II Core 5

IT 6117 Computer Applications Core 5

BM 6122 Entrepreneurship Core 5

CE 6106 Building Maintenance I Core 6

CE 6107 Building Workshop Practice II Core 12

CE 6108 Land Surveying I Core 6

CE 6109 Road Maintenance I Core 6

CE 6110 Soil Mechanics I Core 6

CE 6111 Structural Mechanics I Core 6

TOTAL 62

B. Diploma in Civil Engineering (2nd Year)

Semester I

Code Name Core or Elective Credits

MS 6221 Advanced Mathematics III Core 5

NS 6221 Advanced Physics III Core 5
CE 6201 Building construction II Core 6
CE 6202 Building Design and Drawing Core 8
CE 6203 Building Workshop Practice III Core 8
CE 6204 Civil Engineering Materials II Core 6
CE 6205 Pavement Design and Construction Core 6
CE 6206 Soil Mechanics II Core 6
CE 6207 Structural Mechanics II Core 6
CE 6208 Industrial Practical Training Core 10
TOTAL 66

Semester II

Code Name Core or Elective Credits

MS 6225 Advanced Mathematics IV Core 5
NS 6223 Advanced Physics IV Core 5
CE 6209 Basics of Technical Report Writing Core 5
CE 6210 Building Maintenance II Core 5
CE 6211 Construction Management I Core 5
CE 6212 Land Surveying II Core 8
CE 6213 Quantity Surveying I Core 5
CE 6214 Reinforced Cement Concrete Design III Core 6
CE 6215 Road Maintenance II Core 5
CE 6216 Soil Mechanics III Core 5
CE 6217 Water Supply Core 8
TOTAL 62

C. Diploma in Civil Engineering (3rd Year) Semester I

Semester II

DIPLOMA IN HIGHWAY ENGINEERING

A. Diploma in Highway Engineering (1st Year)

Semester I

Code Name Core or Elective Credits

MS 6128 Advanced Mathematics I Core 5
NS 6141 Advanced Physics I Core 5
HS 6117 Communication skills Core 5
IT 6116 Basic Computer Applications Core 5
HS 6116 Elements of Development Studies Core 5
CE 6101 Building Construction I Core 5
CE 6102 Building Workshop Practice I Core 10
CE 6103 Civil Engineering Materials I Core 9
CE 6104 Introduction to Engineering Drawing Core 8
CE 6105 Road Construction I Core 6
TOTAL 58

Code Name Core or Elective Credits

CE 6301 Building Construction III Core 7
CE 6302 Construction management II Core 7

CE 6303 Fluid Mechanics and Hydraulics Core 8
CE 6304 Quantity Surveying II Core 7
CE 6305 Reinforced Cement Concrete Design II Core 7
CE 6306 Structural Timber Design Core 8
CE 6307 Project I Core 8
CE 6308 Industrial Practical Training Core 10
TOTAL 62

Code Name Core or
Elective Credits

CE 6313 Building Construction IV Core 7
CE 6312 Civil Engineering Materials III Core 7
CE 6311 Construction Management III Core 7
CE 6309 Foundation Engineering Core 8
CE 6310 Reinforced Cement Concrete Design II Core 7
CE 6315 Structural Steel Design Core 8
CE 6314 Wastes Management Core 8
CE 6316 Project II Core 10
TOTAL 62

Semester II

Code Name Core or Elective Credits

MS 6129 Advanced Mathematics II Core 5
NS 6142 Advanced Physics II Core 5
IT 6117 Computer Applications Core 5
BM 6122 Entrepreneurship Core 5
CE 6106 Building Maintenance, I Core 6
CE 6107 Building Workshop Practice II Core 12
CE 6108 Land Surveying I Core 6
CE 6109 Road Maintenance I Core 6
CE 6110 Soil Mechanics I Core 6
CE 6111 Structural Mechanics I Core 6
TOTAL 62

B. Diploma in Highway Engineering (2nd Year)

Semester I

Code Name Core or Elective Credits

MS 6221 Advanced Mathematics III Core 5
NS 6221 Advanced Physics III Core 5
CE 6201 Building construction II Core 6
CE 6202 Building Design and Drawing Core 8
CE 6203 Building Workshop Practice III Core 8
CE 6204 Civil Engineering Materials II Core 6
CE 6205 Pavement Design and Construction Core 6
CE 6206 Soil Mechanics II Core 6
CE 6207 Structural Mechanics II Core 6
CE 6208 Industrial practical training Core 10

TOTAL 66

Semester II

Code Name Core or

Elective Credits

MS 6225 Advanced Mathematics IV Core 5

NS 6223 Advanced Physics IV Core 5

CE 6209 Basics of Technical Report Writing Core 5

CE 6210 Building Maintenance II Core 5

CE 6211 Construction Management I Core 5

CE 6212 Land Surveying II Core 8

CE 6213 Quantity Surveying I Core 5

CE 6214 Reinforced Cement Concrete Design III Core 6

CE 6215 Road Maintenance II Core 5

CE 6216 Soil Mechanics III Core 5

CE 6217 Water Supply Core 8

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C. Diploma in Highway Engineering (3rd Year)

Semester I

Code Name Core or Elective Credits

CE 6321 Coordinate Geometry and Differential Equations Core 7

CE 6322 Correspondence, and Report Writing Core 7

CE 6323 Route design Core 8

CE 6324 Pavement Materials Core 7

CE 6325 Traffic and Transportation Engineering Core 7

CE 6320 Soil Mechanics and foundations Core 8

CE 6306 Structural Timber Design Core 8

CE 6308 Industrial Practical Training Core 10

TOTAL 62

Semester II

Code Name Core or

Elective Credits

CE 6329 Social and Environmental Management Core 7

CE 6328 Hydraulics and fluid mechanics Core 7

CE 6311 Construction Management III Core 7

CE6227 Pavement Engineering Core 8

CE 6314 Structural Steel Design Core 7

CE 6327 Basic Bridge Construction and maintenance Core 6

CE 6316 Project II Core 8

TOTAL 64

BACHELOR OF CIVIL ENGINEERING

A. Bachelor of Civil Engineering (1st Year)

Semester I

Code Name Core or

Elective Credits

MS 8101 Linear Algebra and Calculus Core 6

HS 8101 Communication Skills Core 9

CS 8104 Programming Concepts Core 9

DS 8101 Development Studies Core 6

BM 8108 Entrepreneurship Education Core 6

CE 8101 Engineering Drawing I Core 9

CE 8102 Construction Technology I Core 9

CE 8103 Workshop practice Core 8

CE 8104 Structural Mechanics I Core 8

TOTAL 62

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TOTAL 70

Semester II

Code Name Core or Elective Credits

MS 8102

DS 8108

Advanced Calculus

Development Perspectives

Core

Core

6

6

CS 8110 Advanced C Programming Core 6

CE 8105 Engineering Drawing II Core 9

CE 8106 Construction Technology II Core 9

CE 8107 Building Construction Core 7

CE 8108 Mechanics of Structures Core 8

CE 8109 Land Survey Core 6

TOTAL 60

B. Bachelor of Civil Engineering (2nd Year)

Semester I

Code Name Core or Elective Credits

MS 8201 Differential Equations Core 6

CE 8201 Soil Mechanics I Core 6

CE 8102 Civil Engineering Materials.-I Core 6

CE 8203 Fluid Mechanics Core 6

CE 8204 Engineering Survey I Core 9

CE 8205 Road Construction and Maintenance Core 9

CE 8206 Concrete Technology Core 6

CE 8207 Structural Analysis I Core 6

CE 8116 Industrial Practical Training Core 10

TOTAL 64

Semester II

Code Name Core or Elective Credits

MS 8303 Statistics and Numeric Analysis Core 6

CE 8208 Engineering Survey II Core 9.5

CE 8209 Fluid Mechanics and Hydraulics Core 9.5

CE 8210 Engineering Geology Core 6

CE 8211 Civil Engineering Materials.-II Core 9

CE 8212 Soil Mechanics II Core 6

CE 8213 Structural Analysis II Core 8

CE 8214 Building Planning and Drawing Core 6

TOTAL 60C. Bachelor of Civil Engineering (3rd Year)

Semester I

Code Name Core or Elective Credits

CE 8301 Quantity Survey I Core 7

CE 8302 Geometric Design and Traffic Engineering Core 9

CE 8303 Reinforced Concrete Design and Detailing I Core 10

CE 8304 Foundation Engineering Core 10

CE 8305 Highway Engineering Materials Core 6

CE 8306 Construction Management Core 8

CE 8307 Engineering Hydrology Core 6

CE 8216 Industrial Practical Training II Core 10

TOTAL 66

Semester II

Code Name Core or Elective Credits

CE 8308 Building Services Core 6

CE 8309 Quantity Surveying II Core 8

CE 8310 Reinforced Concrete Design and Detailing II Core 9

CE 8311 Water Supply Engineering Core 6

CE 8312 Contract Planning and Administration Core 9

CE 8313 Pavement Design and Construction Core 7

CE 8314 Research Methodology Core 7

CE 8315 Construction of Multi-Storey Structures Core 8

TOTAL 60

Bachelor of Civil Engineering (4th Year)

Semester I

Code Name Core or Elective Credits

CE 8401 Engineering Economics Core 6

CE 8402 Structural Steel Design Core 6

CE 8403 Waste Water Management Core 6

CE 8404 Pavement Maintenance Core 6

CE 8405 Bridge Design and Construction Core 6

CE 8406 Pre-Stressed Concrete Design Elective 6

CE 8407 Irrigation Engineering Elective 6

CE 8408 Project I Core 18

CE 8316 Industrial Practical Training III Core 10

TOTAL 70

Semester II

Code Name Core or Elective Credits

CE 8409 Design of Masonry and Retaining Structures Core 6

CE 8410 Structural Timber Design Core 6

CE 8411 Solid Waste Management Core 6

CE 8412 Industrial Building Construction Core 6

CE 8413 Hydraulic Structures Core 6

CE 8414 Transportation Engineering Elective 6

CE 8415 Water Resources Management Elective 6

CE 8416 Project II Core 18

TOTAL 60

DEPARTMENT OF GEOSCIENCE AND MINING TECHNOLOGY

Programmes

The Department currently offers one (1) Programme:

A. Diploma in Mining Engineering

8.1.2.1 LABORATORIES AND WORKSHOPS

i. Mining Laboratory

8.1.2.2 LIST OF STAFF

(Head of Department)

Dr. Alex W. Mwang'ande PhD. Oil & Gas Wells Eng. (China University of Petroleum, East China); MSc.

Petroleum Eng. (Norwegian University of Science and Technology); BSc. Mech. Eng. (UDSM)

Lecturers:

Dr. Alex W. Mwang'ande PhD. Oil & Gas Wells Eng. (China University of Petroleum, East China); MSc.

Petroleum Eng. (Norwegian University of Science and Technology); BSc. Mech. Eng. (UDSM)

Dr. Muya Somo Mgaza PhD. Geotechnical Eng. (Huazhong University of Science and Technology

[HUST]); MSc. Geotechnical Eng. (HUST); BSc. Geology (UDSM).

Dr. Raphael Iddphonc Mkini PhD. Oil and Natural Gas Eng. (China University of Geosciences, Wuhan); MSc

Renewable Energy. Eng (UDSM); BSc. Mech. Eng. (UDSM)

Dr. Alvin Kajongo Mulashani PhD. Oil and Natural Gas Eng. (China University of Geosciences, Wuhan); MSc.

Oil and Gas Dev. Eng. (Xi'an Shiyou, China); BSc. Mech. Eng. (MIST).

Dr. Melckzedek M. Mgimba PhD. Oil and Natural Gas Eng. (China University of Geosciences, Wuhan); MSc.

Petroleum Eng. (Norwegian University of Science and Technology); BSc. Mining Eng. (UDSM)

Assistant lecturers

Mr. Wilson L. Ngole MSc. Petroleum Eng. (Norwegian University of Science and Technology); BSc.

Mining Eng. (UDSM)

Mr. Nickson N. Lushasi* MSc. Oil and Natural Gas Eng. (China University of Geosciences, Wuhan); BSc.

Mining Eng. (UDSM)

Mr. Osmund E. Mwangupili* MSc. Oil and Natural Gas Eng. (China University of Petroleum, East China); BSc.

Mining Eng. (UDSM)

Mr. Salehe R. Mayange MSc. Hydrogeology (University of Badji Mokhtar Annaba [UBMA] – Algeria);

BSc. Applied Geology (UBMA).

Mr. Oltingey T. Lindi* MSc. Petroleum Eng. (Norwegian University of Science and Technology); BSc.

Mining Eng. (UDSM)

Mr. Deus A. Msumange* MSc. Mining Eng. (Karadeniz Technical University, Turkey); BSc. Geology

(Badji Mokhtar Annaba University [UBMA], Algeria)

Instructors

Mr. Adamu Musa MSc. Oil and Natural Gas Eng. (China University of Geosciences, Wuhan); BSc.

Mining Eng. (UDSM)

Mr. Frank A. Mwakyembe* BSc. Mining Eng. (UDSM)

Mr. Abasi A. Hawaii BSc. Mining Eng. (UDSM)

Technicians

Ms. Asha Thobias Chiwanga* Ordinary Diploma in Mining Eng. (MRI-Dodoma)
Office Secretary

Ms. Marjory E. Katage* Certificate in Social work

*On study leave

8.1.2.3 PROGRAMME COURSES

DIPLOMA IN MINING ENGINEERING

A. Diploma in Mining Engineering (1st Year)

Semester-I

Code Name Core or Elective Credits

GM 6101 Introduction to Mining Core 6

GM 6102 Introduction to Physical Geology Core 6

CE 6118 Introduction to Engineering Drawing Core 8

CE 6120 Building Workshop Practice – I Core 10

CE 6208 Land Surveying - I Core 6

MS 6128 Advanced Mathematics - I Core 6

NS 6141 Advance Physics - I Core 6

HS 6116 Elements of Development Studies Core 6

HS 6117 Communication Skills Core 6
IT 6116 Introduction to Computer Core 6
TOTAL 66

Semester-II

Code Name Core or Elective Credits
GM 6103 Introduction to Basics of Surface Mining Core 9
GM 6104 Basic Mineralogy, Petrology and Ore Geology Core 6
GM 6105 Introduction to Safety and Risk Assessment in Mining Core 9
CE 6122 Building Workshop Practice – II Core 12
CE 6215 Land Surveying- II Core 6
MS 6129 Advanced Mathematics - II Core 6
NS 6140 Advanced Physics - II Core 6
BM 6122 Entrepreneurship Core 6
IT 6117 Computer Application Core 6
TOTAL 66

Semester I

Code Name Core or Elective Credits
GM 6201 Drilling and Blasting- I Core 12
GM 6202 Mine Equipment and Maintenance Management Core 12
GM 6203 Introduction to Mine Environment Core 9
GM 6204 Field Practical Training-I Core 10
CE 6307 Fluid Mechanics and Hydraulics Core 9
MS 6221 Calculus Core 6
NS 6221 Advanced Physics - III Core 6
TOTAL 64

Semester II

Code Name Core or Elective Credits
GM 6205 Drilling and Blasting-II Core 12
GM 6206 Introduction to Rock Mechanics Core 12
GM 6207 Introduction to Mineral Economics and Mining Regulatory Framework Core 12
GM 6208 Basics of Ore Dilution and Production Control Core 6
GM 6209 Basics of Technical Report Writing Core 6
GM 6210 Small Scale Mining Techniques Core 6
MS 6225 Advanced Mathematics - III Core 6
NS 6223 Advanced Physics - IV Core 6
TOTAL 66

C. Diploma in Mining Engineering (3rd Year)

Semester I

Code Name Core or Elective Credits
GM 6301 Underground Mining Core 12
GM 6302 Introduction to Tailing Storage Facilities Core 9
GM 6303 Introduction to Mine Surveying Core 9
GM 6304 Mining Laboratory - I Core 6

GM 6305 Introduction to Hydrogeology Core 9

GM 6306 Project – I Core 9

GM 6307 Field Practical Training- II Core 10

TOTAL 64

Semester - II

Code Name Core or Elective Credits

GM 6308 Underground Mine Support Systems Core 9

GM 6309 Mine Ventilation Core 12

GM 6310 Material Handling System Core 9

GM 6311 Mining Laboratory – II Core 6

GM 6312 Introduction to Management in Mining Core 9

GM 6313 Introduction to Mineral Processing Techniques Core 12

GM 6314 Project – II Core 9

TOTAL 66

8.1.3 DEPARTMENT OF ELECTRICAL AND POWER ENGINEERING

Programmes

Currently, the Department offers two (2) Programmes:

- i. Diploma in Electrical and Electronics Engineering
- ii. Bachelor of Electrical and Electronics Engineering

8.1.3.1 LIST OF STAFF

(Head of Department)

Dr. Isaka J. Mwakitalima, PhD. Electrical Eng. (Delhi Technological University, India), MSc. Sustainable

Energy (NM-AIST), Bachelor Electrical and Electronics (SJCET), Dip.Ed.

Electrical (Klerruu TTC), FTC Electrical (ATC)

Senior Lecturers

Dr. John P. John, PhD. Energy Eng. (Berlin Tech. University-Germany), MSc. Elect. Eng. (UDSM), B. Eng. Elect. (DIT), FTC. (ATC)

Dr. Arthur Mngoma Omari, PhD Energy Eng. (NM-AIST), MSc Elec. Eng. (Kharkov State Technical

University of Agriculture- Ukraine), Tech. Ed. (Morogoro)

Lecturers

Dr. Isaka J. Mwakitalima, PhD. Electrical Eng. (Delhi Technological University, India), MSc. Sustainable

Energy (NM-AIST), Bachelor Electrical and Electronics (SJCET), Dip.Ed.

Electrical (Klerruu TTC), FTC Electrical (ATC).

Assistant Lecturers

Mr. Watson E. Yotham, MSc. Elect. Eng. (UDSM), BSc. Elect. Eng. (UDSM), Tech. Ed. (Morogoro)

*Mr. Owdean M. Suwi, Msc. Elect. Eng. (UDSM), BSc. Elect Eng., (UDSM). Tech. Ed. (Morogoro)

*Mr. Sospeter I. Gabriel, MSc. Elect. Eng. (UDSM), B. Eng. Elect. (DIT), FTC Elect.Eng. (DIT)

Mr. Vincet V. Massawe, MSc Elect.Eng. (St. Petersburg State Polytechnical University-Russia); BSc

Elect. Eng. (Russia); FTC in Mech. Eng. (ATC)

*Mr. Godwin E Mnkeni, MSc. Elect. Eng. (UDSM), ADE Elect. Eng. (DIT), Dip. Elect. Eng. (Kidatu),

Tech. Ed. (Morogoro)

*Mr. Exaud S. Tweve, MSc. Elect. Eng. (UDSM), ADE Elect.Eng. (DIT), FTC Elect. Eng. (MTC)

*Mr. Nicholas G. Moyo, MSc. Elect. Eng. (UDSM), PGD Elect. Eng. (UDSM), ADE (Elect. Eng. (DIT),

FTC (ATC)

*Mr. Wilbert Ruta MSc. Elect. Eng (JKUo A), BEng. Electrical and Electronics (MUST), Diploma

Electrical and Electronics (MIST)

Mr. Joshua J. Mlay MEng. Power Engineering and Engineering Thermophysics (HUST)-CHINA,

BEng. Electrical and Electronics (MUST), DEng. Electrical and Electronics (MUST)

*Mr. Emmanuel G Swetala MTech Electrical Power Systems (JNTUA)-INDIA, BSc. Electrical Engineering

(UDSM)

*Mr. Salehe S. Malamla Masters of Electrical Eng. Shandong University, China, BSc- Electrical (SAUT)

Mr. Stuart Brown M. Eng. (Power Systems), BEng. Electrical and Electronics (SAUT) Tutorial Assistants

Mr. Makunja O. Bwire BEng. Electrical Engineering (MUST), DEng Electrical and Electronics (MIST)

Mr. Romanus P. Lyanda BSc. Electrical Engineering (UDSM)

Mr. Fredy F. Loita BSc. Electrical Engineering (UDSM)

*Mr. Gwamaka Mwasomola BEng. Electrical and Electronics (MUST)

Mr. Mnaka philipo Ndyando BEng. Electrical and Electronics (MUST)

Mr. Mussa Salanya Petro BEng. Electrical and Electronics (MUST)

Instructors

*Mr. Raphael J. Mwasoni BEng. Electrical Engineering (DIT), DTE (KLERRUU TTC), FTC Electrical (MTC)

*Mr. Novatus Kimenyuka BEng. Electrical and Electronics (MUST), Deng. Electrical and Electronics (MIST)

*Mr. Andrew S. Mwampulo BEng. in Electrical and Electronics (MUST), DSE (Butimba Teachers College)

*Mr. Furahini I Shelukindo BEng. Electrical and Electronics (MUST), Deng. Electrical and Electronics (MUST)

Technicians

Mr. Mateso Stephano Ntinyako Dip. Eng. (St. Joseph University in Tanzania)

Artisans

Mr. Joseph Nsembele Trade Test Grade One (Mbeya VTC)

.1.3.2 PROGRAMME COURSES

DIPLOMA IN ELECTRICAL AND ELECTRONIC ENGINEERING

A. Diploma in Electrical and Electronic Engineering (1st Year)

Semester I

Fundamental Courses

Code Name Credits

MS 6121 Advanced Mathematics I 6

NS 6139 Physical Science I 6

HS 6117 Communication Skills 6

IT 6116 Introduction to Computer 6

HS 6116 Element of Development Studies 6

Core Courses

EE 6116 Basics of Electrical engineering I 6

EE 6117 Basics of Electrical Installation and Maintenance 6

EE 6118 Fundamental of Electrical Materials 6

EE 6119 Electrical Workshop Technology I 8

EE 6120 Technical Drawing I 6

ET 6116 Basic of Electronics 6

TOTAL 68

Semester II

Fundamental Courses

Code Name Credits

MS 6122 Advanced Mathematics II 6

NS 6145 Physical Science II 6

BM6122 Entrepreneurship 6

IT 6117 Computer Applications 6

Core Courses

ET 6117 Analogue Electronics 6

ET 6118 Analogue Electronics Lab 8

EE 6121 Basic of Electrical Engineering II 6

EE 6122 Electrical Measurements 6

EE 6123 Technical Drawing II 6

EE 6124 Electrical Workshop Technology II 8

TOTAL 64

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1.0 INTRODUCTION

1.1 VICE CHANCELLOR'S MESSAGE

Mbeya University of Science and Technology (MUST) provides Technical Education, Research and Consultancy

services. Due to rapid technological changes in the world today in many fields, there are ever widening technical

skill gaps in the labour market for scientists, technicians and engineers. MUST has set for itself the task of responding

to these changes at the same pace as that at which the technology is changing by making frequent reviews of its

curricula and developing new curricula and Programmes to fit and fill the skill gaps that new technologies pose.

MUST, therefore play its role of training scientists, engineers and technologists in numbers and quality so as to

spearhead development in the public and private sector.

1.2 HISTORICAL BACKGROUND

Mbeya University of Science and Technology (MUST) is a result of the transformation of Mbeya Institute of Science

and Technology (MIST) through the University Act No. 7 of 2005 and the Charter of Mbeya University of Science

and Technology, 2013. The Institute was a result of the transformation of the former Mbeya Technical College

(MTC) through the National Council for Technical Education (NACTE) Establishment Order No. 9 of 2004 and

Section 9 of the NACTE Act of 1997. MTC was officially launched on 1st September, 1986.

The transformation from MTC to MIST and then MUST was done to fulfill a long-term plan, made during the first

phase Government, under the then President of the United Republic of Tanzania, the late Mwalimu Julius Kambarage

Nyerere.

In a bid to expand and offer services to a wider client base, in 2015, Mbeya University of Science and Technology

(MUST) acquired a new Campus (MUST Rukwa Campus College) which is in the Rukwa Region.

1.3 LOCATION

Mbeya University of Science and Technology has two campuses. The Main Campus is located in Mbeya City in the

Southern Highlands of Tanzania 10 km outside the city center and about 3 Km from the Mbeya – Tunduma Highway.

The road to MUST branches from the highway at the Iyunga/Ituta – TAZARA area. MUST Rukwa Campus College is located at Kianda along the Tunduma- Sumbawanga road, about 50 km from Sumbawanga.

1.4 VISION, MISSION AND OBJECTIVES OF THE UNIVERSITY

1.4.1 VISION

The vision of Mbeya University of Science and Technology is to become the leading centre of excellence for knowledge, skills and applied education in Science and Technology.

1.4.2 MISSION

The mission of Mbeya University of Science and Technology is to develop academically, technologically and socially competent students, staff and other stakeholders who will be responsive to the broader needs and challenges of the society specifically by:

- i. Facilitating appropriate tuition, practical training and support according to the needs of students and other customers.
- ii. Encouraging staff commitment to quality education and services including research, consultancy and innovation.
- iii. Fostering lifelong learning, honesty and responsibility.
- iv. Promoting an environment conducive to human development.

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- v. Promoting effective entrepreneurship and usage of appropriate technology that meet national and international needs and standards through skills and practical oriented training, research and consultancy.

1.4.3 UNIVERSITY OBJECTIVES

- i. To offer training in science and technology, technical education and other training, thus developing a critical mass of highly trained manpower.
- ii. To formulate plans for the promotion, technological development and improvement of the quality of education and training being offered to students and other stakeholders.
- iii. To promote and encourage innovation, initiative and readiness amongst staff and students in their fields of specialization and study.
- iv. To collaborate with other institutions nationally and internationally in the initiation, promotion and conduct of technical education, science and technology Programmes.
- v. To carry out any other assignments given by the government through its various organs.

1.5 ACCREDITATION

Mbeya University of Science and Technology is fully registered and accredited by the Tanzania Commission for Universities (TCU) to conduct higher education Programmes.

1.6 MEMBERSHIP

Mbeya University of Science and Technology is a member of the following Institutions;

- i. The Association of Technical Universities and Polytechnics in Africa (ATUPA),
- ii. Commonwealth of Learning (CoL),
- iii. Inter University Council for East Africa (IUCEA),
- iv. African Network of Scientific and Technical Institutions (ANSTI) and
- v. Southern African Regional Universities Association (SARUA).

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1.7 SENIOR OFFICERS OF THE UNIVERSITY

Chancellor

Hon. Amani Abeid Karume

Chairperson of the University Council

Hon. Zakia Hamdani Meghji

1.8 MEMBERS OF THE COUNCIL

Hon. Zakia Hamdani Meghji

Chairperson of the University Council

Prof. Aloys N. Mvuma

Vice Chancellor (ex-officio)

Prof. Godliving Mtui

Ag. Deputy Vice Chancellor Academic, Research and Consultancy (ex-officio)

Dr. John P. John

Ag. Deputy Vice Chancellor Planning, Finance and Administration (ex-officio)

Prof. Ladslaus Laurent Mnyone

Director of Technology and Innovation - Ministry of Education, Science and Technology

Prof. Bakari M. Mwinyiwiwa

Principal of the College of Engineering and Technology- University of Dar es Salaam

Prof. Lughano Kusiluka

Vice Chancellor- University of Dodoma

Ms. Lilian Marwa

Principal Finance Management Officer

Ms. Jenifer Tondi

Southern Highland Zonal Manager- CRDB

Ms. Leticia Paschal Lutambi

Women Committee Coordinator- Tanzania Higher Learning Institutions Trade Union (THTU) –MUST

Dr. Duwa Chengula

Chairman of MUST Academic Staff Association (MUSTASA)

Mr. Hemed Bakari Ikoki
President of MUST Students' Organization (MUSTSO)
Adv. Lugano Mwakilasa
Corporate Counsel/Secretary to the Council
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1.9 EXECUTIVE OFFICERS OF THE UNIVERSITY

Vice-Chancellor

Prof. Aloys N. Mvuma – PhD (Hiroshima, Japan), MSc. CIS (Shimane, Japan), BSc. Eng (UDSM).

Ag. Deputy Vice Chancellor Academic, Research and Consultancy (ex-officio)

Prof. Godliving Mtui – PhD (Kanazawa), MSc (Kanazawa), BSc. Hons (UDSM).

Ag. Deputy Vice Chancellor Planning, Finance and Administration (ex-officio)

Dr. John P. John - PhD. Energy Eng. (Berlin Tech. University-Germany), MSc. Elect. Eng. (UDSM), B. Eng. Elect.

(DIT), FTC. (ATC).

Ag. Principal MUST Rukwa Campus College

Dr. Joachim J. Mwambeleko - PhD in Electrical Engineering (SUT – Thailand), M.Eng. in Electrical Engineering

(SUT- Thailand), B.Sc. in Electrical Engineering (SAUT-Mwanza).

Ag. Principal of the College of Engineering and Technology

Prof. Zacharia Saimon Katambara - PhD (WITS), MSc Eng. (UDSM), BSc. Eng (UDSM).

Principal of the College of Science and Technical Education

Dr. John P. John - PhD. Energy Eng. (Berlin Tech. University-Germany), MSc. Elect. Eng. (UDSM), B. Eng. Elect.

(DIT), FTC. (ATC).

Ag. Principal of the College of Architecture and Construction Technology

Dr. Ramadhani S. Tekka - PhD in Management Science and Engineering (Chongqing University), MEM (UDSM),

BSc. in Geomatics (UDSM).

Ag. Principal of College of Humanities and Business Studies

Dr. Emmanuel Tonya- PhD (OUT), B. Com-Marketing, MBA –Marketing (OUT).

Ag. Principal of the College of Information & Communication Technology

Dr. Juma S. Ally – PhD in ICE (USTC, China), MSc. in CIS (HUST, China), BEng. in TE (HUST, China).

Ag. Principal of the College of Agricultural Sciences and Technology

Dr. Eliezer Brown Mwa.kalapa- PhD. Veterinary Sciences (Norwegian University of Life Sciences, Norway); MSc.

Marine Sciences (UDSM); BSc. Aquaculture (SUA).

Director of the Internationalization and Convocation Unit

Dr. Buberwa M. Tibesigwa - PhD Eng. In Architecture (Chongqing University, China), M.Arch. (HIT China) B.Arch.

(University of Dar es Salaam).

Director of Quality Assurance

Dr. Lulu C. Luflenge - PhD (PJ TSAU), MA (Rural Development) (SUA), BSc (Home Economics and Human Nutrition) (SUA).

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Director of the Center for Innovation and Technology Transfer

Dr. Juma A. Mpangule - PhD in Civil Engineering and Construction Management (Technical University Dortmund, Germany), MSc. Const. Mgt (ARU), BSc (BE) – UDSM

Ag. Director of the Centre for Gender Studies

Dr. Philipina F. Shayo- PhD (Biod.. and Ecosyst. Mgt.) (NMAIST); MSc. Env. Mgt-NRM (The University of

Queensland, Australia); BSc. Forestry (SUA); Diploma in Forestry (FTI, Olmotonyi).

Director of Postgraduate Studies, Research and Publication

Prof. Asheri Mwidege - PhD (SUA); MA Econ. BSc. Ed. (UDSM), Dip. In Ed. (Mkwawa).

Ag. Director of Undergraduate Studies

Dr. Muya S. Mgaza - PhD in Geotechnical Engineering (HUST) Msc in Geotechnical Engineering (HUST), BSc in Geology (UDSM).

Director of Administration and Human Resource Management

Mr. Michael Gwisu Masanja - Master of Business Administration (University of Dar es Salaam), Bachelor of Arts (University of Dar es Salaam).

Director of Finance

Ms. Willieth Tilwetwa – MBA Finance (OUT), CPA (NBAA) & Adv. Dipl. Acc. (IAA).

Director of Planning and Development

Mr. Cornel Msemwa - MBA (SUA), BSc. FST (SUA).

Director of Library Services

Mr. Novatus Luanda – MA. (UDSM), BA. (UDSM), DIP (NYEGEZI).

Ag. Director of Information and Communication Technology Services

Mr. Imani Mwalumbwe - MSc (UDSM), MBA (Coventry Univ), PGD (UDSM), Adv.Diploma (IFM).

Director of MUST Consultancy Bureau

Mr. Ivor J. Ndimbo - Master of Technology in Water Resources Development. (IIT-Roorkee INDIA), BSc. Civil Engineering (UDSM).

Chief Internal Auditor

Mr. Frank Kindimba - MBA Finance (ASSAM, India), CPA (NBAA) & BAF (MU).

Director of Estates Management

Dr. Hieronimi Mboya- PhD in Material Science and Engineering (Structural Materials), Msc. Structural Engineering,

Postgraduate Diploma- Structural Engineering, Advanced Diploma-Civil Engineering.

Director of Students Affairs

Mr. Augustine Matem - MA in Ed. (UDOM) BSc. Ed. (UDSM), Dip.Ed. (MKWAWA).

Corporate Counsel

Adv. Lugano Mwakilasa - LL.M. (UDSM) LL.B. (Tumaini University - Iringa).

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1.10 ACADEMIC ORGANS

Mbeya University of Science and Technology consists of five (5) Colleges and one (1) Campus College.

1.10.1 DEPARTMENTS UNDER THE COLLEGE OF ENGINEERING AND TECHNOLOGY (CET)

- i. Department of Civil Engineering;
- ii. Department of Electrical and Power Engineering;
- iii. Department of Geosciences and Mining Technology;
- iv. Department of Mechanical and Industrial Engineering; and
- v. Department of Chemical and Environmental Engineering.

1.10.2 DEPARTMENT UNDER THE COLLEGE OF ARCHITECTURE AND CONSTRUCTION TECHNOLOGY (CoACT)

- i. Department of Architecture and Art Design;
- ii. Department of Construction Management and Technology; and
- iii. Department of Urban Planning and Real Estate Studies.

1.10.3 DEPARTMENT UNDER THE COLLEGE OF INFORMATION AND COMMUNICATION TECHNOLOGY (CoICT)

- i. Department of Computer Science and Engineering;
- ii. Department of Electronics and Telecommunications Engineering;
- iii. Department of Informatics; and
- iv. Department of Information Systems and Technology.

1.10.4 DEPARTMENTS UNDER THE COLLEGE OF SCIENCE AND TECHNICAL EDUCATION (CoSTE)

- i. Department of Applied Sciences;
- ii. Department of Medical Sciences and Technology;
- iii. Department of Natural Sciences;
- iv. Department of Technical Education;
- v. Department of Earth Sciences; and
- vi. Department of Mathematics and Statistics.

1.10.5 DEPARTMENTS UNDER THE COLLEGE OF HUMANITIES AND BUSINESS STUDIES (CoHBS)

- i. Department of Business Management; and
- ii. Department of Humanities.

1.10.6 DEPARTMENTS UNDER THE COLLEGE OF AGRICULTURAL SCIENCE AND TECHNOLOGY (CoAST)

- i. Department of Food Sciences and Technology; and
- ii. Department of Crop Science and Horticulture.

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1.10.7 DEPARTMENTS UNDER MUST RUKWA CAMPUS COLLEGE (MRCC)

- i. Department of Business Management; and
- ii. Department of Mechanical and Industrial Engineering.

1.11 CONTACT ADDRESSES AND TELEPHONE NUMBERS

General Administration Mbeya University of Science and Technology

P.O. Box 131

Mbeya, Tanzania.

General line: 255 (0)25 2957544 or 255 (0)25 2957542

Fax: 255 (0) 25 2957552

E-mail: must@must.ac.tz

Website: www.must.ac.tz

Vice Chancellor

P.O. Box 131, Mbeya

Tel: 255 (0)25 2957540

Fax: 255 (0)25 2957552

E-mail: vc@must.ac.tz

Deputy Vice Chancellor (Academic, Research and Consultancy)

P.O. Box 131, Mbeya

Tel: 255 (0)25 2957541

Fax: 255 (0) 25 2957552

E-mail: dvcarc@must.ac.tz

Deputy Vice Chancellor (Planning, Finance and Administration)

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Fax: 255 (0) 25 2957552

E-mail: dvcpfa@must.ac.tz

Secretary to the Council

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Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

Directorate of Undergraduate Studies

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

E-mail: dus@must.ac.tz

College of Engineering and Technology

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552,

E-mail: coet@must.ac.tz

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College of Science and Technical Education

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

E-mail: coste@must.ac.tz

College of Architecture and Construction Technology

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

E-mail: coact@must.ac.tz

College of Humanities and Business Studies

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

E-mail: cohbs@must.ac.tz

College of Information and Communication Technology

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

E-mail: coict@must.ac.tz

MUST Rukwa Campus College

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2955048/9

Fax: 255 (0) 25 2957552

E-mail: mrcc@must.ac.tz

Industrial Linkage and Labour

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

E-mail: dillm@must.ac.tz

MUST Health Centre

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

E-mail: hc@must.ac.tz

Students' Organization (MUSTSO)

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

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Directorate of Postgraduate Studies, Research and Publications

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

E-mail: dpsrp@must.ac.tz

Centre for Virtual Learning and Continuing Education

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

E-mail: cvce@must.ac.tz

MCB

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

E-mail: mcb@must.ac.tz

Directorate of Students Services

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

E-mail: dss@must.ac.tz

Department of Examinations

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957549

Fax: 255 (0) 25 2957552

E-mail: de@must.ac.tz

Department of Admissions

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957550

Fax: 255 (0) 25 2957552

E-mail: admission@must.ac.tz

Communication and Marketing Unit

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

E-mail: cmu@must.ac.tz

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1.12 STUDENTS SERVICES

1.12.1 MEDICAL AND HEALTH SERVICES

The University has a Dispensary, which provides clinical and health services. The Dispensary has full-time Medical Staff who attend students and University staff as well as the neighbouring community.

All students are required to join the National Health Insurance Fund (NHIF), which guarantees medical treatment at the University Dispensary and elsewhere.

All first-year undergraduate students are required to undergo a medical examination at the University Dispensary

and submit a medical report, including a chest X-ray, as part of the registration process. A fee of TZS 5,000 is applicable for this service.

1.12.2 STUDENTS WELFARE

The Directorate of Students Services (DSS) is responsible to provide administrative support for students, general information for both current and past students, personal and social at the University. The Director of Students Services is assisted by two Heads of Departments: Students Welfare Services and Students Governance. The head of Students welfare is assisted by Wardens, Janitors and Spots/Games Tutors. The directorate also provides the following facilities: residence, catering, games and sports. The Director of Students Services oversees the activities of students' organizations and provides general guidance and counselling in social, financial, academic and worship issues.

1.12.3 RESIDENCE

The University has limited on-campus accommodation spaces and therefore only few students accommodated in University hostels. The majority of students should find their own accommodation outside the campus. Students who secure on-campus accommodation are obliged to pay accommodation fees at an authorized rate. All payments for on-campus accommodation shall be made in advance and no student shall accommodated without payment of accommodation fee.

Currently, the University has four (4) hostel blocks with a capacity to accommodate 2100 students at a time. Priority for on-campus accommodation is given to certificate students, government sponsored Diploma students, female students, foreign students and those with disabilities. Regardless of the Programme one is undertaking, the University will not offer accommodation for students with children; such students will be required to look for their own accommodation off-campus. All students will be required to observe the student by-laws and Students Accommodation guidelines 2022.

1.12.4 MBEYA UNIVERSITY OF SCIENCE AND TECHNOLOGY STUDENTS' ORGANIZATION (MUSTSO)

Formal student activities are administered by the Mbeya University of Science and Technology Students Organization (MUSTSO). The organization deals with students' academic, social and recreational activities. Every

MUST full time registered student is automatically a member of MUSTSO. The students' organization shall address itself to aspects of representing students' interest in various decision-making bodies such as College boards, Senate, Council Committees and University Council. MUSTSO under leadership of its president is a formal active voice of students, within and outside the University. Under MUSTSO, there are other affiliated organizations such as religious and foreign students' organizations.

1.12.5 GAMES AND SPORTS

The University has sports facilities that include football grounds, volleyball, tennis, netball, and basketball courts.

Students are therefore, encouraged to participate in athletics, jogging, table tennis, football, basketball, and netball.

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Mbeya University of Science and Technology, takes part in sports and games competitions organized by various sports bodies, such as the East African University Sports Federation (S), East, Central and Southern African Universities Sports Association (ECSAUSA), the Federation of African University Sports (FASU) and Federation of International University Sports (FISU), Tanzania Universities Sports Association (TUSA).

1.12.6 CATERING SERVICES

Catering services at the University are free for Diploma Government sponsored students. The services are commercialized for all other students. Under commercialization, students are required to pay for their meals. The cafeteria services are outsourced to private catering service providers approved by the University to give the meal service to students. Students are not allowed to cook in the halls of residence and therefore are required to use the catering services approved by the University.

1.12.7 RELIGIOUS ACTIVITIES

MUST is a non-religious institution but it provides opportunities to students to participate in various faiths. Religious facilities and services are available on campus and students are free to join in any one of the religious groups existing in the University.

1.12.8 BANKING SERVICES

Financial facilities include (CRDB and NMB) Automatic Teller Machines (ATMs) which are installed within the

campus. Other services include money transfer facilities are provided by major mobile phone companies. Bank services are provided by Bank Agents within the campus and in the city centre.

1.13 UNIVERSITY LIBRARY

The Dr. Magufuli Library offers information services to support roles of the University in teaching, learning and research activities. It has well trained staff members who can assist in meeting user needs and, it provides huge and conducive reading space for users. Also, it provides information resources in both print and electronic formats in which the available print resources contain text and reference books for all courses offered at MUST including those in Engineering, Science and Technology, Technical Education as well as Business Administration. In addition, it has computer rooms to facilitate training and access to electronic resources in CD ROMS as well as online resources.

Furthermore, the Dr. Magufuli Library provides access to various international journal databases through annual subscription to those databases. Other services available in the library are: wireless internet, printing, photocopying, cloak room service where users can keep their bags while studying in the library.

Working Hours

During Semester During Vacation

08:30 am – 09:00 pm EAT (Monday – Friday) 8:00 am – 03:30 pm EAT (Monday – Friday)

08:30 am – 12:30 pm EAT (Saturday) Public Holidays: Closed

02:00 pm – 06:00 pm EAT (Sunday)

1.14 VIRTUAL AND CONTINUING EDUCATION SERVICES

The services on virtual and continuing education are offered by the Centre for Virtual and Continuing Education (CVCE). The CVCE has two departments: Virtual Education Department and Continuing Education Department.

The Virtual Education Department is responsible for coordinating online non-degree and degree programmes while the Continuing Education Department is responsible for coordinating face to face short courses at Campus. The

CVCE is the best place for educational development. Currently, the CVCE is developing curricula which will be offered through face-to-face sessions and distance education mode for non-degree educational certificate, virtual

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education degree and non-degree programmes. With this directorate, a learner will learn a specific topic of education

and be competent in that area of a discipline. Also, the CVCE offers short courses including Chinese language.

Furthermore, it conducts sensitization campaign annually by visiting various secondary schools in Tanzania to encourage female students as well as male students to opt for science subjects at secondary school level.

1.15 INNOVATION AND TECHNOLOGY TRANSFER SERVICES

The innovation and technology transfer services are offered by the Centre for Innovation and Technology Transfer

(CITT). The University established CITT to promote the generation of ideas, the creation of new knowledge,

technology licensing, intellectual property securing, venture capital and funding, and the development of business

plans and business growth. CITT is geared towards co-operation with science and business; it offers various types

of support for students and staff, start-ups and scale-ups. CITT also aims to contribute to Tanzania's social and

economic development by providing quality supervision and coordination of all inventions, innovation and

entrepreneurship activities and initiatives that result in the creation of spin-offs and start-ups, thereby contributing

to Tanzania's diversification and economic self-reliance of current and future generations. In this view, the role of

CITT is to foster creativity by bringing and managing innovative, technological, and entrepreneurship development.

Overall, CITT's mission is to provide objectives, guidelines, procedures, and standards for managing inventions,

innovations, entrepreneurship, and technology transfer activities through;

i. Developing, reviewing and implementing programmes, policies and guidelines in the field of innovation

and technology transfer;

ii. Monitoring and evaluating performance of innovation and technology transfer programmes;

iii. Facilitating training and mentoring of inventors and innovators through incubation, seminars, workshops

and boot camps;

iv. Managing research activities in liaison with the Directorate of Postgraduate Studies, Research and

Publications; and

v. Providing consultancy services in Liaise with the Directorate of Internationalization and Convocation Unit.

1.16 UNIVERSITY QUALITY ASSURANCE

The University's Quality Assurance mission is to create consciousness of quality standards and best practices,

facilitate and enhance quality by Compliance to the efficient and effective delivery of teaching, learning and research, services and overall governance through cooperation and interaction among staff members, students as well as the external stakeholders of Mbeya University of Science and Technology.

The objectives of the QA are to:

- i. Safeguard and ensure the integrity of academic awards of the University;
- ii. Provide guidance in development and implementation of quality assurance and enhancement procedures and practices;
- iii. Outline the internal and external quality assurance procedures and practices necessary to realize the vision and mission as well as uphold the core functions of the University;
- iv. Layout the structure to ensure that quality assurance systems are coordinated and managed with maximum effectiveness; and
- v. Facilitate development of a culture of self-evaluation and continuous quality improvement in the University.

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1.17 UNIVERSITY COLLABORATION

The University collaborates with peer universities and other higher learning institutions. Currently, the University is collaborating with various international higher learning institutions including; The University of Texas Rio Grande Valley (UTRGV), the University of Applied Sciences Burgenland in Austria, Southern Methodist University (SMU), Malawi University of Science and Technology, Kassel Through East Africa Network of Learning Administrators (EANLA), Hanze University of Applied Sciences in the Netherlands, Meru University of Science and Technology (MUST-Kenya), Chuka University in Kenya, Acharya Institutes (ACHARYA) in India. National wise, the University has Memoranda of Understanding in academic activities with the University of Dar es Salaam, Ardhi University (ARU), University of Dodoma (UoD), Confucius Institute at the University of Dar es Salaam, Sokoine University of Agriculture (SUA), Muhimbili University of Health and Allied Sciences (MUHAS), The Open University of Tanzania (OUT), Dar es Salaam Institute of Technology (DIT), Arusha Technical College (ATC), Ardhi Institute -Morogoro (ARIMO), Teofilo Kisanji University (TEKU) and The Technical and Vocational Education and Training (TVET).

Furthermore, the University is collaborating with other non-academic institutions and companies including;

- i. United Nations Development Program (UNDP),
- ii. Tanzania Industrial Research and Development Organization (TIRDO),
- iii. Small Industries Development Organization (SIDO),
- iv. Tanzania Communications Regulatory Authority (TCRA),
- v. e-Government,
- vi. Mbeya Cement,
- vii. MIC Tanzania Limited (TIGO),
- viii. HELP TO HELP,
- ix. All Green Energy,
- x. Rujewa Integrated Efforts to Fight Poverty (RIEFP),
- xi. HUAWEI,
- xii. Mwanza Polytechnic Institute (MWAPOI),
- xiii. K'S Hospital,
- xiv. Youth For Africa (YOA),
- xv. YARA Tanzania Ltd,
- xvi. Tanzania Geothermal Development Company (TGDC),
- xvii. Tanzania Agricultural Research Institute (TARI),
- xviii. Nature Tanzania,
- xix. Ifakara Health Institute,
- xx. Mbeya Zonal Referral Hospital,
- xxi. Universal Communications Service Access Fund (UCSAF) – Tanzania, and
- xxii. Tanzania Engineering and Manufacturing Design Organization (TEMDO).

2.0 UNIVERSITY CERTIFICATE, DIPLOMA AND BACHELOR DEGREE AWARDS

2.1 DIPLOMA AND BACHELOR DEGREES OFFERED BY THE COLLEGE OF ENGINEERING AND

TECHNOLOGY (CET)

- a) Diploma in Civil Engineering;
- b) Diploma in Highway Engineering;
- c) Diploma in Electrical and Electronic Engineering;
- d) Diploma in Mechanical Engineering;
- e) Diploma in Mechatronics Engineering;

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- f) Diploma in Mining Engineering;
- g) Diploma in Mechanical Engineering with Industrial Safety and Occupational Health;
- h) Diploma in Automotive and Auto electrical Engineering;
- i) Bachelor of Civil Engineering;
- j) Bachelor of Electrical and Electronic Engineering and
- k) Bachelor of Mechanical Engineering.

2.2 DIPLOMA AND BACHELOR DEGREE PROGRAMMES OFFERED BY THE COLLEGE OF ARCHITECTURE AND CONSTRUCTION TECHNOLOGY (CoACT)

- a) Diploma in Architecture;

- b) Bachelor of Technology in Architecture and
- c) Bachelor of Technology in Landscape Architecture.

2.3 DIPLOMA AND BACHELOR DEGREE PROGRAMMES OFFERED BY THE COLLEGE OF INFORMATION AND COMMUNICATION TECHNOLOGY (CoICT)

- a) Diploma in Computer Engineering;
- b) Diploma in Computer Science;
- c) Diploma in Information and Communication Technology;
- d) Diploma in Electronic and Telecommunication Engineering;
- e) Diploma in Business Computing;
- f) Bachelor of Computer Engineering;
- g) Bachelor of Computer Science;
- h) Bachelor of Science in Information and Communication Technology;
- i) Bachelor of Engineering in Telecommunication Systems; and
- j) Bachelor of Engineering in Data Science.

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2.4 DIPLOMA AND BACHELOR DEGREE PROGRAMMES OFFERED BY THE COLLEGE OF SCIENCE AND TECHNICAL EDUCATION (CoSTE)

- a) Diploma in Biomedical Equipment Engineering;
- b) Diploma in Laboratory Science and Technology;
- c) Diploma in Food Science and Technology;
- d) Diploma of Technical Education in Architectural Technology;
- e) Diploma of Technical Education in Civil Engineering;
- f) Diploma of Technical Education in Electrical and Electronic Engineering;
- g) Diploma of Technical Education in Mechanical Engineering;
- h) Diploma in Biotechnology;
- i) Bachelor of Technical Education in Architectural Technology;
- j) Bachelor of Technical Education in Civil Engineering;
- k) Bachelor of Technical Education in Electrical and Electronics Engineering;
- l) Bachelor of Technical Education in Mechanical Engineering;
- m) Bachelor of Science with Education in the following specializations;
 - Chemistry and Biology
 - Chemistry and Mathematics
 - Chemistry and Physics
 - Physics and Mathematics
- n) Bachelor of Laboratory Science and Technology;
- o) Bachelor of Science in Food Science and Technology
- p) Bachelor of Science in Natural Resources Conservation
- q) Bachelor of Science in Chemistry;
- r) Bachelor of Science in Biotechnology; and
- s) Bachelor of Science in Environmental Science and Technology.

2.5 CERTIFICATE, DIPLOMA AND BACHELOR DEGREE PROGRAMMES OFFERED BY THE COLLEGE OF HUMANITIES AND BUSINESS STUDIES (CoHBS)

- a) Certificate in Business Administration;

- b) Certificate in Agribusiness with Technology;
- c) Diploma in Business Administration;
- d) Diploma in Agribusiness with Technology;
- e) Diploma of Business Administration in Accounting and Finance;
- f) Diploma of Business Administration in Marketing and Entrepreneurship;
- g) Bachelor of Business Administration with the following specialization:
 - Accounting and Finance;
 - Human Resources Management;

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- Marketing and Entrepreneurship and
 - Procurement and Supply Chain Management.
- h) Bachelor of Agribusiness Management and Technology.

2.6 DIPLOMA AND BACHELOR DEGREE PROGRAMMES OFFERED BY THE COLLEGE OF AGRICULTURAL SCIENCES AND TECHNOLOGY (CoAST)

- a) Diploma in Food Science and Technology; and
- b) Bachelor of Science in Food Science and Technology.

2.7 CERTIFICATES, DIPLOMA AND BACHELOR DEGREE PROGRAMMES OFFERED BY MUST

RUKWA CAMPUS COLLEGE (MRCC)

- a) Certificate in Business Administration;
- b) Diploma in Business Administration;
- c) Diploma in Mechanical Engineering;
- d) Bachelor of Mechanical Engineering and
- e) Bachelor of Business Administration with the following specialization: -
 - Accounting and Finance
 - Human Resources Management
 - Marketing and Entrepreneurship
 - Procurement and Supply Chain Management.

3.0 ACTIVITIES UNDER THE CENTRE FOR VIRTUAL LEARNING AND CONTINUING EDUCATION

- i. Managing and Administering Short courses Programmes.
- ii. Managing and Administering Distance Learning Programmes.
- iii. Managing and administering courses through Flexible Skills Development.

4.0 GRADUATION AWARDS FOR STUDENTS

The following list indicates the types of academic awards/prizes offered by the University:

- i. Chancellor's Prize
- ii. University Best Female Student Award
- iii. Undergraduate Programme Award
- iv. Best Student's Final Project Award
- v. Best Research Award
- vi. Innovation Award
- vii. Individual/Organisation/Company Prizes

5.0 FEES AND BURSARIES

Students pursuing Diploma Programmes may join the University under either Government sponsorship, private sponsorship or may apply for scholarships or loans from the Higher Education Students Loan Board (HESLB) and Students pursuing Bachelor Programmes may apply for scholarships or loans from the Higher Education Students Loan Board (HESLB) also may join the University under private sponsorship.

Note: Fees may change due to prevailing circumstances. The fee structure for Government and privately sponsored students are as shown in the following tables:

5.1 FEE STRUCTURE FOR DIPLOMA STUDENTS (UQF 6)

5.1.1 GOVERNMENT SPONSORED STUDENTS

Table 1: Fee structure for Diploma government sponsored students in (TZS)

S/N	Item	1st Year	2nd Year	3rd Year
1.	Tuition fee (cost sharing fee)	- -	130,000	
2.	Other Expenses			
i.	Caution Money (Non-refundable)	20,000	- -	
ii.	Hiring University mattress	10,000	10,000	10,000
iii.	Hiring University bed	10,000	10,000	10,000
iv.	Library membership fees	30,000	30,000	30,000
v.	Examination fee	50,000	50,000	50,000
vi.	Certification	40,000	- -	
vii.	Students' Organization fee	10,000	10,000	10,000
viii.	Registration fee	10,000	10,000	10,000
ix.	Student's Identity Card	10,000	10,000	10,000
x.	Medical Contribution (NHIF)	50,400	50,400	50,400
xi.	Capitation fee	10,000	10,000	10,000
xii.	Prospectus	- - -		
xiii.	Quality Assurance fee (TCU)	20,000	20,000	20,000
xiv.	Graduation gowns	40,000	- -	
xv.	Transcript fee	10,000	- -	
	Sub-total; Other Expenses	320,400	210,400	210,400
	Total fees	320,400	210,400	340,400

Table 2: Payment Options (TZS)

Tuition fee - - 130,000

Other Expenses 320,400 210,400 210,400

Semester I 320,400 210,400 275,400

Semester II - 65,000

5.1.2 PRIVATE SPONSORED STUDENTS (UQF 6)

Table 3: Fee structure for Diploma in Engineering, Architecture, Science Courses and Business computing (1st Year) private sponsored students in (TZS)

S/N	Item	In campus	Off campus
	Meals and accommodation	Accommodation Only	
1	Tuition fee	900,000	900,000
2	Other Expenses		
i.	Meal Costs	1,176,000	
ii.	Accommodation Fee	107,100	107,100
iii.	Caution money	20,000	20,000
iv.	Library membership fees	30,000	30,000
v.	Examinations fee	50,000	50,000
vi.	Certification	40,000	40,000
vii.	Students' Organization fee	10,000	10,000
viii.	Registration fee	10,000	10,000
ix.	Student's Identity Card	10,000	10,000
x.	Medical Contribution (NHIF)	50,400	50,400
xi.	Capitation fee	10,000	10,000
xii.	Prospectus	- - -	
xiii.	Quality Assurance fee (TCU)	20,000	20,000
xiv.	Graduation gown	40,000	40,000
xv.	Transcript fee	10,000	10,000
xvi.	Sub-total; Other Expenses	1,583,500	407,500
xvii.	Total fees	2,483,500	1,200,400

Table 4: Payment Options (TZS)

	In campus	Off campus
Meals and accommodation		
Accommodation only		
Tuition fee	900,000	900,000
Other Expenses	1,583,500	407,500
Semester I	1,445,500	857,500
Semester II	1,038,000	450,000

Table 5: Fee Structure for Certificate and Diploma in Business Administration and Agribusiness Course (1st Year) Private sponsored students in (TZS)

S/N	Item	In campus	Off campus
	Meals and accommodation	Accommodation Only	

1. Tuition fee 700,000 700,000 700,000

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2. Other Expenses

i. Meal Costs	1,176,000	-	-
ii. Accommodation	107,100	107,100	-
iii. Caution money (Non-refundable)	20,000	20,000	20,000
iv. Library membership fees	30,000	30,000	30,000
v. Examinations fee	50,000	50,000	50,000
vi. Certification	40,000	40,000	40,000
vii. Students' Organization fee	10,000	10,000	10,000
viii. Registration fee	10,000	10,000	10,000
ix. Student's Identity Card	10,000	10,000	10,000
x. Medical Contribution (NHIF)	50,400	50,400	50,400
xi. Capitation fee	10,000	10,000	10,000
xii. Prospectus	-	-	-
xiii. Quality Assurance fee (TCU)	20,000	20,000	20,000
xiv. Graduation gown	40,000	40,000	40,000
xv. Transcript fee	10,000	10,000	10,000
xvi. Sub-total; Other Expenses	1,583,500	407,500	300,400
xvii. Total fees	2,283,500	1,107,500	1,000,400

Table 6: Payment Options (TZS)

In campus Off campus

Meals and accommodation

Accommodation only

Tuition fee	700,000	700,000	700,000
Other Expenses	1,583,500	407,500	300,400
Semester I	1,345,500	757,500	650,400
Semester II	938,000	350,000	350,000

Table 7: Fee structure for Diploma in Engineering, Architecture and Science Courses (2nd& 3rd Year) private sponsored students in (TZS)

S/N Item In campus Off campus

Meals and accommodation Accommodation only

1. Tuition fee	900,000	900,000	900,000
2. Other Expenses			
i. Meal Costs	1,142,400	-	-
ii. Accommodation	107,100	107,100	-
iii. Caution money	-	-	-
iv. Library membership fees	30,000	30,000	30,000

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v. Examinations fee	50,000	50,000	50,000
vi. Certification	-	-	-

vii. Students' Organization fee	10,000	10,000	10,000
viii. Registration fee	10,000	10,000	10,000
ix. Student's Identity Card	10,000	10,000	10,000
x. Medical Contribution (NHIF)	50,400	50,400	50,400
xi. Capitation fee	10,000	10,000	10,000
xii. Prospectus	- - -		
xiii. Quality Assurance fee (TCU)	20,000	20,000	20,000
Sub-total; Other Expenses	1,439,900	297,500	190,400
Total fees	2,339,900	1,197,500	1,090,400

Table 8: Payment Options (TZS)

In campus Off campus

Meals and
accommodation
Accommodation
only

Tuition fee	900,000	900,000	900,000
Other Expenses	1,439,900	297,500	190,400
Semester I	1,318,700	747,500	640,400
Semester II	1,021,000	450,000	450,000

Table 9: Fee structure for Diploma in Business Administration and Agri Business Course (2nd and 3rd Year) private sponsored students in (TZS)

S/N Item In campus Off campus

Meals and accommodation Accommodation
Only

1 Tuition fee	700,000	700,000	700,000
2 Other Expenses			
i. Meal Costs	1,142,400	- -	
ii. Accommodation	107,100	107,100	-
iii. Caution money (Non-refundable)	- - -		
iv. Library membership fees	30,000	30,000	30,000
v. Examinations fee	50,000	50,000	50,000
vi. Certification	- - -		
vii. Students' Organization fee	10,000	10,000	10,000
viii. Registration fee	10,000	10,000	10,000
ix. Student's Identity Card	10,000	10,000	10,000
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x. Medical Contribution (NHIF)	50,400	50,400	50,400
xi. Capitation fee	10,000	10,000	10,000
xii. Prospectus	- - -		
xiii. Quality Assurance fee (TCU)	20,000	20,000	20,000

Sub-total; Other Expenses 1,439,900 297,500 190,400

Total fees 2,139,900 997,500 890,400

Table 10: Payment Options (TZS)

In campus Off campus

Meals and

accommodation

Accommodation

only

Tuition fee 700,000 700,000 700,000

Other Expenses 1,583,500 407,500 300,400

Semester I 1,345,500 757,500 650,400

Semester II 938,000 350,000 350,000

Table11: Fee structure for Diploma in Biotechnology (1st Year) private sponsored students in (TZS)

S/N Item In campus Off campus

Meals and accommodation Accommodation

Only

1 Tuition fee 1,100,000 1,100,000 1,100,000

2 Other Expenses

i. Meal Costs 1,176,000 - -

ii. Accommodation 107,100 107,100 -

iii. Caution money (Non-refundable)

20,000 20,000 20,000

iv. Library membership fees 30,000 30,000 30,000

v. Examinations fee 50,000 50,000 50,000

vi. Certification 40,000 40,000 40,000

vii. Students' Organization fee 10,000 10,000 10,000

viii. Registration fee 10,000 10,000 10,000

ix. Student's Identity Card 10,000 10,000 10,000

x. Medical Contribution (NHIF) 50,400 50,400 50,400

xi. Capitation fee 10,000 10,000 10,000

xii. Prospectus - - -

xiii. Quality Assurance fee (TCU) 20,000 20,000 20,000

xiv. Graduation gown 40,000 40,000 40,000

xv. Transcript fee 10,000 10,000 10,000

Sub-total; Other Expenses 1,583,500 407,500 300,400

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Total fees 2,683,500 1,507,500 1,400,400

Table 12: Payment Options (TZS)

In campus Off campus

Meals and

accommodation

Accommodation
only

Tuition fee 1,100,000 1,100,000 1,100,000

Other Expenses 1,583,500 407,500 300,400

Semester I 1,545,500 957,500 850,400

Semester II 550,000 550,000 550,000

Table 13: Fee structure for Diploma in Biotechnology (2nd & 3rd Year) private
sponsored students in (TZS)

S/N Item In campus Off campus

Meals and accommodation Accommodation
only

1. Tuition fee 1,100,000 1,100,000 1,100,000

2. Other Expenses

i. Meal Costs 1,142,400 - -

ii. Accommodation 107,100 107,100 -

iii. Caution money - - -

iv. Library membership fees 30,000 30,000 30,000

v. Examinations fee 50,000 50,000 50,000

vi. Certification - - -

vii. Students' Organization fee 10,000 10,000 10,000

viii. Registration fee 10,000 10,000 10,000

ix. Student's Identity Card 10,000 10,000 10,000

x. Medical Contribution (NHIF) 50,400 50,400 50,400

xi. Capitation fee 10,000 10,000 10,000

xii. Prospectus - - -

xiii. Quality Assurance fee (TCU) 20,000 20,000 20,000

Sub-total; Other Expenses 1,439,900 297,500 190,400

Total fees 2,539,900 1,397,500 1,290,400

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Table 14: Payment Options (TZS)

In campus Off campus

Meals and
accommodation

Accommodation only

Tuition fee 1,100,000 1,100,000 1,100,000

Other Expenses 1,439,900 297,500 190,400

Semester I 1,418,700 847,500 740,400

Semester II 550,000 550,000 550,000

5.2 FEES STRUCTURE FOR BACHELOR PROGRAMME FULL-TIME STUDENTS (UQF 8)

5.2.1 COSTS PAYABLE TO THE UNIVERSITY BY BACHELOR OF SCIENCES, EDUCATION
AND ICT

STUDENTS (3 YEARS PROGRAMMES)

Table 15: University's Fees and Other Expenses for Bachelor students under 3 years programme in (TZS) Sciences, Education and ICT

S/N Description UQF 8

(1st Year)

UQF 8

(2nd

Year)

UQF 8

(3rd Year)

1. Tuition fee 1,100,000 1,100,000 1,100,00

2. Other Expenses

i. Caution Money (Non-refundable) 20,000 - -

ii. Accommodation Fee 107,100 107,100 107,100

iii. Library Membership 30,000 30,000 30,000

iv. Examination Fee 120,000 120,000 120,000

v. Certification 40,000 - -

vi. Students' Organization 10,000 10,000 10,000

vii. Registration 10,000 10,000 10,000

viii. Student's Identity Card 10,000 10,000 10,000

ix. Medical Contribution (NHIF) 50,400 50,400 50,400

x. Capitation fee 10,000 10,000 10,000

xi. Prospectus - - -

xii. Quality Assurance fee (TCU) 20,000 20,000 20,000

xiii. Graduation gown 40,000 - -

xiv. Transcript fee 10,000 - -

Sub-total; Other Expenses 477,500 367,500 367,500

Total fees 1,577,500 1,467,500 1,467,500

Table 16: Payment Options (TZS)

Description

UQF 8

1st Year

UQF 8

2nd Year

UQF 8

3rd Year

Tuition fee 1,100,000 1,100,000 1,100,000

Other Expenses 477,500 367,500 367,500

Semester I 1,027,500 917,500 917,500

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Semester II 550,000 550,000 550,000

Table 17: University's Fees and Other Expenses for Bachelor of Sciences in Biotechnology, Science in Chemistry and

Environmental Science and Technology 3 years programme in (TZS)

S/N Description UQF 8 (1st Year) UQF 8 (2ndYear) UQF 8 (3rdYear)

1. Tuition fee	1,400,000	1,400,000	1,400,000
2. Other Expenses			
i. Caution Money	20,000	-	-
ii. Accommodation Fee	107,100	107,100	107,100
iii. Library Membership	30,000	30,000	30,000
iv. Examination Fee	120,000	120,000	120,000
v. Certification	40,000	-	-
vi. Students' Organization	10,000	10,000	10,000
vii. Registration	10,000	10,000	10,000
viii. Student's Identity Card	10,000	10,000	10,000
ix. Medical Contribution (NHIF)	50,400	50,400	50,400
x. Capitation fee	10,000	10,000	10,000
xi. Prospectus	-	-	-
xii. Quality Assurance fee (TCU)	20,000	20,000	20,000
xiii. Graduation gown	40,000	-	-
xiv. Transcript fee	10,000	-	-
Sub-total; Other Expenses	477,500	367,500	367,500
Total fees	1,877,500	1,767,500	1,767,500

Table 18: Payment Options (TZS)

Description

UQF 8

1st Year

UQF 8

2nd Year

UQF 8

3rd Year

Tuition fee 1,400,000 1,400,000 1,400,000

Other Expenses 477,500 367,500 367,500

Semester I 1,177,500 1,067,500 1,067,500

Semester II 700,000 700,000 700,000

5.2.2 COSTS PAYABLE TO THE UNIVERSITY BY BACHELOR OF ENGINEERING AND TECHNOLOGY

IN ARCHITECTURE STUDENTS (4 YEARS PROGRAMMES)

Table 19: University's Fees and Other Expenses for Bachelor students under 4 years programme in (TZS)

S/N Description UQF 8 (1stYear) UQF 8 (2rd

Year)

UQF 8 (3rd

Year)

UQF 8 (4thYear)

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1. Tuition fee	1,100,000	1,100,000	1,100,000	1,100,000
2. Other Expenses				
i. Caution Money (Non-refundable)				
20,000	- - -			
ii. Accommodation Fees	107,100	107,100	107,100	107,100
iii. Library Membership	30,000	30,000	30,000	30,000
iv. Examination Fee	120,000	120,000	120,000	120,000
v. Certification	40,000	- - -		
vi. Students' Organization	10,000	10,000	10,000	10,000
vii. Registration	10,000	10,000	10,000	5,000
viii. Student's Identity Card	10,000	10,000	10,000	10,000
ix. Medical Contribution	50,400	50,400	50,400	50,400
x. Medical Capitation	10,000	10,000	10,000	10,000
xi. Prospectus	- - -			
xii. Quality Assurance fee (TCU)	20,000	20,000	20,000	20,000
xiii. Graduation gown	40,000	- - -		
xiv. Transcript fee	10,000	- - -		
Sub-total; Other Expenses	477,500	367,500	367,500	367,500
Total Fees	1,577,500	1,467,500	1,467,500	1,467,500

Table 20: Payment Options (TZS)

Description

UQF 8

1st Year

UQF 8

2nd Year

UQF 8

3rd Year

UQF 8

4th Year

Tuition fee 1,100,000 1,100,000 1,100,000 1,100,000

Other Expenses 477,500 367,500 367,500 367,500

Semester I 1,027,500 917,500 917,500 917,500

Semester II 550,000 550,000 550,000 550,000

Table 21: University's Fees and Other Expenses for Bachelor students in Business Administration in (TZS)

S/N Description UQF 8 (1stYear) UQF 8 (2nd Year) UQF 8 (3rd Year)

1. Tuition fee 800,000 800,000 800,000

2. Other Expenses

i. Caution Money (Non-refundable) 20,000 - -

ii. Accommodation Fees 107,100 107,100 107,100

iii. Library Membership 30,000 30,000 30,000

iv. Examination Fee 120,000 120,000 120,000

v. Certification 40,000 - -

vi. Students' Organization	10,000	10,000	10,000
vii. Registration	10,000	10,000	10,000
viii. Student's Identity Card	10,000	10,000	10,000
ix. Medical Contribution (NHIF)	50,400	50,400	50,400
x. Capitation fee	10,000	10,000	10,000
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xi. Prospectus - - -			
xii. Quality Assurance fee (TCU)	20,000	20,000	20,000
xiii. Graduation gown	40,000	- -	
xiv. Transcript fee	10,000	- -	
xv. Sub-total; Other Expenses	477,500	367,500	367,500
Total fees	1,257,500	1,167,500	1,167,500

Table 22: Payment Options (TZS)

Description

UQF 8

1st Year

UQF 8

2nd Year

UQF 8

3rd Year

Tuition fee 800,000 800,000 800,000

Other Expenses 477,500 367,500 367,500

Semester I 877,500 767,500 767,500

Semester II 400,000 400,000 400,000

Table 23: University's Fees and Other Expenses for Bachelor students in Agribusiness in (TZS)

S/N Description UQF 8 (1stYear) UQF 8 (2nd Year) UQF 8 (3rd Year)

1.0 Tuition fee 1,000,000 1,000,000 1,000,000

2.0 Other Expenses

i. Caution Money (Non-refundable) 20,000 - -

ii. Accommodation Fee 107,100 107,100 107,100

iii. Library Membership 30,000 30,000 30,000

iv. Examination Fee 120,000 120,000 120,000

v. Certification 40,000 - -

vi. Students' Organization 10,000 10,000 10,000

vii. Registration 10,000 10,000 10,000

viii. Student's Identity Card 10,000 10,000 10,000

ix. Medical Contribution (NHIF) 50,400 50,400 50,400

x. Capitation fee 10,000 10,000 10,000

xi. Prospectus - - -

xii. Quality Assurance fee (TCU) 20,000 20,000 20,000

xiii. Graduation Fee 40,000 - -

xiv. Transcript 10,000 - -

Sub-total; Other Expenses 477,500 407,500 407,500
 Total fees (TZS) 1,477,500 1,407,500 1,407,500

Table 24: Payment Options (TZS)

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Description

UQF 8

1st Year

UQF 8

2nd Year

UQF 8

3rd Year

Tuition fee 1,000,000 1,000,000 1,000,000

Other Expenses 477,500 367,500 367,500

Semester I 977,500 867,500 867,500

Semester II 500,000 500,000 500,000

5.2.3 COSTS PAYABLE DIRECTLY TO THE STUDENTS BY SPONSORS

Table 25: Costs payable direct to the students by sponsors for Bachelor in Sciences, Education and ICT (3 Years Programmes) in TZS

S/N Description UQF 8 (1st Year) UQF 8 (2nd Year)

UQF 8 (3rd

Year)

1 Industrial Practical Training (IPT) 700,000 700,000 -

2 Book / Stationery costs 200,000 200,000 200,000

3 Final project Printing 0 0 120,000

4 Special faculty requirements 300,000 300,000 120,000

5 Accommodation and Meals Allowance 1,837,500 1,785,000 1,785,000

6 Transport fare to attend IPT Variable Variable

TOTAL 3,037,500 2,985,000 2,225,000

Table 26: Costs payable direct to the students by sponsors for Bachelor in Engineering and Technology in Architecture 4 Years Programmes in (TZS)

S/N DESCRIPTION UQF 8 (1st Year) UQF 8 (2nd Year) UQF 8 (3rd Year) UQF 8 (4th Year)

1 Industrial Practical Training 700,000 700,000 700,000 -

2 Book / Stationery costs 200,000 200,000 200,000 200,000

3 Final project Printing - - - 120,000

4 Special faculty requirements 300,000 300,000 300,000 120,000

5 Accommodation and Meals costs 1,837,500 1,785,000 1,785,000 1,785,000

6 Transport fare to attend IPT Variable Variable Variable

TOTAL 3,037,500/= 2,985,000/= 2,985,000/= 2,225,000/=

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Table 27: Costs Payable Direct to the Student by Sponsors for Bachelor of Science in Biotechnology

Programme (3 Years In TZS)

S/N Description UQF 8 (1st Year) UQF 8 (2ndYear) UQF 8 (3rdYear)

1	Industrial Practical Training (IPT)	700,000	700,000	-
2	Book / Stationery costs	200,000	200,000	200,000
3	Final Project Printing	-	-	-
4	Special Faculty Requirements	300,000	300,000	300,000
5	Accommodation and Meals costs	2,400,000	2,400,000	2,400,000
6	Transport fare to attend IPT	Variable	Variable	-
TOTAL		3,600,000	3,600,000	2,900,000

Table 28: Costs Payable Direct to the Student by Sponsors for Bachelor of Science in Chemistry Programme

(3 Years In TZS)

S/N Cost item UQF8(1stYear) UQF8(2nd Year) UQF 8 (3rd Year)

1	Book & stationary Allowance*	200,000	200,000	200,000
2	Special Faculty Allowance	300,000	300,000	300,000
3	Field Practical Training	700,000	700,000	-
4	Meals and Accommodations	1,200,000	1,200,000	1,200,000
Total		2,400,000	2,400,000	1,700,000

Table 29: Costs Payable Direct to the Student by Sponsors for Bachelor in Environmental Science and Technology

Programme (3 Years In TZS)

S/N Description UQF8(1st Year) UQF8(2rdYear) UQF8(3rdYear)

1	Industrial Practical Training (IPT)	700,000	700,000	-
2	Book/Stationery costs	200,000	200,000	200,000
3	Final Project Printing	-	-	-
4	Special Faculty Requirements	300,000	300,000	300,000
5	Accommodation and Meals costs	2,400,000	2,400,000	2,400,000
6	Transport fare to attend IPT	Variable	Variable	-
TOTAL		3,600,000	3,600,000	2,900,000

*Amounts Payable Direct to the Student by Sponsors reflect the minimum requirements. Sponsors are free to pay their Students according to their ability.

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5.2.4 UNIVERSITY FEE STRUCTURE FOR FOREIGN STUDENTS FOR ACADEMIC YEAR 2024/2025

(FEES AND OTHER DIRECT COSTS PAYABLE TO THE UNIVERSITY)

Diploma Programmes Bachelor Programmes

1st

Year

2nd

Year

3rd Year

4th Year

1st Year 2nd

Year

3rd

Year

4th

Year

S/N ITEM USD USD USD USD USD USD USD

1 Tuition fee (per year) 1,840 1,840 1,840 2,000 2,000 2,000 2,000

2 Application fee 30 - - 30 - - -

3 Other direct University fee –per year:

(Caution money, Library membership fees, Examinations

fee, Certification, Students' Organization fee, Registration

fee, Student's Identity Card, Medical Contribution (NHIF),

Student's Relief Fund,

Prospectus, NACTE Registration)

500 450 450 500 450 450 450

TOTAL 2,370 2,290 2,290 2,530 2,450 2,450 2,450

5.2.4.1 INDICATIVE STIPEND AND OTHER ALLOWANCES PAYABLE TO FOREIGN STUDENTS

S/N ITEM

Diploma Programmes Bachelor Programmes

UQF 8

USD USD

1 Accommodation (Annually) 300 300

2 Meals (Annually) 1,500 1,500

3 Books and stationery allowance (Annually) 500 8,00

GRAND TOTAL 2,300 2,600

5.3 INSTALLMENTS PAYABLE

The tuition fee may be paid in TWO Instalments; ONE Instalment in each Semester, while all Other Expenses / Direct

Cost must be paid in full at the beginning of each academic year. Students are required to pay their fees by generating a

control number, the payment can be done through M-Pesa, Tigo Pesa and Airtel Money. The process of generating control

Number will be instructed in the University website (www.must.ac.tz),

6.0 GENERAL PROVISIONS

i. Admission to the University is open to bona fide students or persons meeting the entry requirements. Such

persons shall be required to go through registration formalities to confirm their status as bona fide students.

ii. To be admitted in the first year of study at Mbeya University of Science and Technology you must have

relevant certificates entitling him/her to go for the course he/she has applied for and duly approved by the relevant authority or have other qualifications considered equivalent by the University.

iii. A student from a similar institution wishing to be admitted into the second year of study at MUST, must have passed all examinations in the relevant programmes in the preceding year of study.

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iv. No student from another institution shall be admitted to the final year of study at Mbeya University of Science and Technology.

v. A student, who has been admitted and does not report for registration in a particular year, may re-apply for admission during the coming Academic year provided the admission requirements remain the same.

vi. A student who postponed studies for more than two consecutive academic years shall be deemed to have terminated studies. Therefore, a student interested to continue with studies at University shall be required to apply for re-admission in the first year of study.

6.1 APPLICATION FEES

Applicants must pay an application fee to be determined by the Council from time to time. All Application fees shall be payable to the University Bank Account directly or by using mobile phone after generating Control Number as it will be directed in the application procedures of a particular academic year. The filled Online Application Information must be submitted before the deadline set for Application submission of the specific round in the online system

6.2 PAYMENT OF FEES

Students will only be registered upon payment of prescribed fees whose amount shall be determined from time to time.

6.3 GUARANTEE OF SPONSORSHIP

Applications can only be considered once the University receives satisfactory evidence that the student will be adequately financed during his or her course at the University. Applicants who need assistance to meet the University fees and expenses should seek bursaries from funding organizations.

6.4 MBEYA UNIVERSITY OF SCIENCE AND TECHNOLOGY ACADEMIC YEAR

The academic year for Certificate, Diploma and Bachelor Degree Programmes will begin in October every year,

otherwise stated differently, and shall end as indicated by the University Academic Almanac.

6.5 REGISTRATION DEADLINE

Deadline of registration for all beginners shall be two weeks after the first day of Orientation Week. The deadline of registration for continuing students shall be two weeks after the University opens. All beginners shall have to submit original certificates on the registration day and must attend orientation week without missing.

6.6 STUDENTS TRANSFER

Student transfers typically refer to the process where a student moves from one institution to another or within the same institution. There are two forms of transfers namely; intra-university and inter-university transfers.

6.6.1 Intra-University Transfer

Intra-university transfer shall mean transfer from one-degree programme to another within Mbeya University of Science and Technology. The conditions are as follows;

- a) A student shall be allowed to apply for transfer from one-degree programme to another provided they meet the minimum entry criteria of such programmes;
- b) A student will not be allowed to transfer from the degree programme to which he/she was admitted at MUST to another unless the following conditions are met:
 - i. Completion of registration and payment of University and Administrative fees; MUST Prospectus 2024/2025

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- ii. Availability of a vacancy in the preferred programme;
- iii. Meet the minimum admission requirements for the sought programme;
- iv. Payment of a non- refundable fee of TZS. 10,000 for Tanzanian students or USD 30 for foreign students;
- v. The application for transfer window will be opened and published on the University Website in the first semester;
- vi. The candidate shall be required to pay all prescribed fees and other related costs arising from the transfer process to the new programme.

6.6.2 Inter-University Transfer

Inter-University Transfer shall mean transfer from one University to the other within the same or different programme provided the applicant meets minimum entry criteria of such programmes.

The transfer from other institutions to MUST for first year students shall be permissible under the following conditions:

- a) Must be admitted in other university during that particular academic year;
- b) The programme to which transfer is sought must have empty slots to accommodate students;
- c) The applicant must possess the minimum entry requirements for that particular degree programme;
- d) Before completing the application for Inter-University Transfer, a candidate shall be required to pay a TZS 50,000 non-refundable fee or such as shall be determined by the University Council;
- e) The University shall approve transfers in writing and submit them to TCU for validation within the set deadline;
- f) Other TCU regulations related to Inter University Transfer shall apply mutatis mutandis; and
- g) For Bachelor degree students, Student transfer shall only be accepted after receiving approval from TCU.

6.7 STUDENTS' NAMES

No change of names by students will be permitted during the course of study at the University and students will be allowed to use names appearing on certificates only which qualified them for admission.

6.8 POSTPONEMENT OF STUDIES

No student is allowed to postpone studies after commencement of academic year, except under special circumstances. Permission to postpone studies will be considered after producing satisfactory evidence for the reasons of postponement and producing a written approval from one's sponsor. A student who has postponed studies shall be allowed to be away from studies for a maximum of two academic years only if she/he is to be allowed for registration to the same year of study. Otherwise, the student will be required to apply afresh for re-admission.

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6.9 ADMISSION REQUIREMENTS

6.10 ENTRY REQUIREMENTS

Applicants may join Certificate, Diploma and Bachelor Programmes through direct entry scheme.

6.10.2 ADMISSION REQUIREMENTS FOR CERTIFICATE PROGRAMMES FOR THE ACADEMIC YEAR

2024/2025

The following are the minimum entry requirements for Certificate Programmes:

S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

1 Certificate in

Agribusiness with

Technology (CABT)

MBC01 Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4)

non- Religious subjects of which two must be science

subjects including Biology or Geography or

Agriculture.

OR

Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least three (3)

non-Religious subjects, two must be among the

following subjects: Biology, Geography and

Agriculture with possession of TRADE TEST GRADE

I / NVA LEVEL III issued by VETA.

1Year

2 Certificate in

Business

Administration

MBC02 Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4)

non- Religious subjects

1Year

6.10.3 ADMISSION REQUIREMENTS FOR DIPLOMA PROGRAMMES FOR THE ACADEMIC YEAR 2024/2025

The following are the minimum entry requirements for Diploma Programmes:

S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

1 Diploma in Architecture MBD01 Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4) non-

Religious subjects, three of which must be

Mathematics, Physics, Chemistry/Geography

OR

Possession of Certificate of Secondary Education

Examination (CSEE) from Technical Secondary Schools

with a pass in at least four (4) non-Religious subjects, three

of which must be Mathematics, Engineering Science,
Chemistry and any one of the following subjects:
Architectural Drafting/Building Construction, Electrical
3Years

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S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

Engineering Science/Electrical Drafting, Workshop
Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education
Examination (CSEE) with a pass in at least four (4) non-
Religious subjects, two of which must be among the
following subjects: Mathematics, Physics,
Chemistry/Geography with possession of TRADE TEST
GRADE I / NVA LEVEL III issued by VETA.

2 Diploma in Biomedical

Equipment Engineering

MBD02 Possession of Certificate of Secondary Education
Examination (CSEE) with a pass in at least four (4) non-
Religious subjects in Mathematics, Physics, Chemistry and
Biology.

OR

Possession of Certificate of Secondary Education
Examination (CSEE) from Technical Secondary Schools
with a pass in at least four (4) non-Religious subjects,
Mathematics, Engineering Science, Chemistry and Biology.

OR

Possession of Certificate of Secondary Education
Examination (CSEE) with a pass in at least four (4) non-
Religious subjects, two must be among the following
subjects: Mathematics, Physics, Chemistry, Biology with
possession of TRADE TEST GRADE I / NVA LEVEL III
issued by VETA.

3Years

3 Diploma in Business

Administration

MBD03 Possession of Certificate in business Administration and

other related qualifications including Certificate in agriculture, Community Development.

OR

Possession of an Advanced Certificates for Secondary Education with at least 1 principal pass and 1 subsidiary

OR

Possession of Certificate of NVA level 3, ATEC I (NBAA) Foundation stage I (PSPTB/NBMM).

2Years

4 Diploma in Civil

Engineering

MBD04 Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Physics, Chemistry

OR

Possession of Certificate of Secondary Education Examination (CSEE) from Technical Secondary Schools with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Engineering Science, Chemistry and any one of the following subjects:

Architectural Drafting/Building Construction, Electrical

3Years

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S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

Engineering Science/Electrical Drafting, Workshop Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

5 Diploma in Computer

Engineering

MBD05 Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Physics, Chemistry

OR

Possession of Certificate of Secondary Education Examination (CSEE) from Technical Secondary Schools with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Engineering Science, Chemistry and any one of the following subjects: Architectural Drafting/Building Construction, Electrical Engineering Science/Electrical Drafting, Workshop Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

3Years

6 Diploma in Computer Science

MBD06 Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two of which must be Mathematics and English

OR

Possession of Certificate of Secondary Education Examination (CSEE) from Technical Secondary Schools with a pass in at least four (4) non-Religious subjects, two of which must be Mathematics and English and any two of the following subjects: Engineering Science/Chemistry, Architectural Drafting/Building Construction, Electrical Engineering Science/Electrical Drafting, Workshop Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two must be Mathematics and English with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

3Years

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S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

7 Diploma in Electrical

and Electronic

Engineering

MBD07 Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4) non-

Religious subjects, three of which must be Mathematics,

Physics, Chemistry

OR

Possession of Certificate of Secondary Education

Examination (CSEE) from Technical Secondary Schools

with a pass in at least four (4) non-Religious subjects, three

of which must be Mathematics, Engineering Science,

Chemistry and any one of the following subjects:

Architectural Drafting/Building Construction, Electrical

Engineering Science/Electrical Drafting, Workshop

Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4) non-

Religious subjects, two must be among the following

subjects: Physics, Chemistry and Mathematics with

possession of TRADE TEST GRADE I / NVA LEVEL III

issued by VETA.

3Years

8 Diploma in Automotive

and Auto electrical

Engineering

MBD08 Possession of Certificate of Secondary Education Examination

(CSEE) with a pass in at least four (4) Nonreligious subjects,

three of which must Mathematics, Physics, Chemistry

OR

Possession of Certificate of Secondary Education Examination

(CSEE) from Technical Secondary Schools with a pass in at

least four (4) non- Religious subjects, three of which must be

Mathematics, Engineering Science, Chemistry and any one of

the following subjects: Architectural Drafting/Building

Construction, Electrical Engineering Science/Electrical

Drafting, Workshop Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

3Years

9 Diploma in Food

Science and

Technology

MBD09 Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least Four (4) non-Religious subjects three of which must be Mathematics, Physics/Chemistry and Biology.

OR

Possession of Certificate of Secondary Education Examination (CSEE) from Technical Secondary Schools with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Engineering

3Years

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S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

Science/Chemistry and Biology and any one of the following subjects: Architectural Drafting/Building, Construction, Electrical Engineering Science/Electrical Drafting, Workshop Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two must be among the following subjects: Mathematics, Physics/Chemistry, Biology with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

10 Diploma in Highway

Engineering

MBD10 Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Physics, Chemistry

OR

Possession of Certificate of Secondary Education Examination (CSEE) from Technical Secondary Schools with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Engineering Science, Chemistry and any one of the following subjects: Architectural Drafting/Building Construction, Electrical Engineering Science/Electrical Drafting, Workshop Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

3Years

11 Diploma in Information and Communication Technology

MBD11 Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two of which must be Mathematics and English

OR

Possession of Certificate of Secondary Education Examination (CSEE) from Technical Secondary Schools with a pass in at least four (4) non-Religious subjects, two of which must be Mathematics and English and any two of the following subjects: Engineering Science/Chemistry, Architectural Drafting/Building Construction, Electrical Engineering Science/Electrical Drafting, Workshop Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two must be among the following

3Years

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S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

subjects: Mathematics and English with possession of
TRADE TEST GRADE I / NVA LEVEL III issued by
VETA.

12 Diploma in Laboratory

Science and

Technology

MBD12 Possession of Certificate of Secondary Education
Examination (CSEE) with a pass in at least four (4) non-
Religious subjects in Mathematics, Physics, Chemistry and
Biology.

OR

Possession of Certificate of Secondary Education
Examination (CSEE) from Technical Secondary Schools
with a pass in at least four (4) non-Religious subjects,
Mathematics, Engineering Science, Chemistry and Biology.

OR

Possession of Certificate of Secondary Education
Examination (CSEE) with a pass in at least four (4) non-
Religious subjects, two must be among the following
subjects: Mathematics, Physics, Chemistry, Biology with
possession of TRADE TEST GRADE I / NVA LEVEL III
issued by VETA.

3Years

13 Diploma in Mechanical

Engineering

MBD13 Possession of Certificate of Secondary Education
Examination (CSEE) with a pass in at least four (4) non-
Religious subjects, three of which must be Mathematics,
Physics, Chemistry

OR

Possession of Certificate of Secondary Education
Examination (CSEE) from Technical Secondary Schools
with a pass in at least four (4) non-Religious subjects, three
of which must be Mathematics, Engineering Science,
Chemistry and any one of the following subjects:
Architectural Drafting/Building Construction, Electrical
Engineering Science/Electrical Drafting, Workshop
Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

3Years

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S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

14 Diploma in

Mechatronics

Engineering

MBD14 Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Physics, Chemistry

OR

Possession of Certificate of Secondary Education Examination (CSEE) from Technical Secondary Schools with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Engineering Science, Chemistry and any one of the following subjects: Architectural Drafting/Building Construction, Electrical Engineering Science/Electrical Drafting, Workshop Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

3Years

15 Diploma in Mining

Engineering

MBD15 Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Physics, Chemistry

OR

Possession of Certificate of Secondary Education Examination (CSEE) from Technical Secondary Schools with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Engineering Science, Chemistry and any one of the following subjects: Architectural Drafting/Building Construction, Electrical Engineering Science/Electrical Drafting, Workshop Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

3Years

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S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

16 Diploma in Agribusiness

with Technology

(DABT)

MBD16 Possession of a certificate (NQF 6) or NTA 4 in agribusiness, agriculture, professional technician level II certificate.

OR

Possession of an Advanced Certificate of Secondary Education Examination (ACSEE) with two principal passes in science subjects, or Geography.

2Years

17 Diploma in Electronics

and Telecommunication

Engineering

MBD17 Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Physics, Chemistry

OR

Possession of Certificate of Secondary Education Examination (CSEE) from Technical Secondary Schools with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Engineering Science, Chemistry and any one of the following subjects: Architectural Drafting/Building Construction, Electrical Engineering Science/Electrical Drafting, Workshop Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

3Years

18 Diploma of Technical Education in Architectural Technology (DTEA)

MBD18 Possession of Certificate of Secondary Education (CSEE) with a pass in at least four (4) Non-religious subjects, three of which must be Mathematics, Physics and Chemistry/Geography.

3Years

19 Diploma of Business Administration in Accounting and Finance

MBD19 Possession of Certificate in business Administration and other related qualifications including Certificate in agriculture, Community Development.

OR

Possession of an Advanced Certificates for Secondary Education with at least 1 principal pass and 1 subsidiary

OR

Possession of Certificate of NVA level 3, ATEC I (NBAA) Foundation stage I (PSPTB/NBMM).

2Year

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S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

20 Diploma of Technical

Education in Civil

Engineering

MBD20 Possession of a Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4) non-

Religious subjects, three of which must be Mathematics,

Physics, Chemistry.

OR

Certificate of Secondary Education Examination (CSEE) from

Technical Secondary Schools with a pass in at least four (4)

non-Religious subjects, three of which must be Mathematics,

Engineering Science and Chemistry.

OR

A Certificate of Secondary Education with a Trade Test

Certificate of at least Grade I or NVA Level 3 offered by

VETA.

3Years

21 Diploma in Business

Computing

MBD21 Possession of Certificate of Secondary Education

Examination (CSEE) and with four principal passes including

English and Mathematics.

OR

Possession of Certificate of Secondary Education

Examination (CSEE) from Technical Secondary Schools with

a pass in at least four (4) non-Religious subjects, two of which

must be Mathematics and English and any two of the

following subjects: Engineering Science/Chemistry,

Architectural Drafting/Building Construction, Electrical

Engineering Science/Electrical Drafting, Workshop

Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4) non-

Religious subjects, two must be among the following subjects:

English and Mathematics with possession of TRADE TEST

GRADE I / NVA LEVEL III issued by VETA.

3Years

22 Diploma of Technical
Education in Electrical
and Electronics

Engineering

MBD22 Possession of Certificate of Secondary Education Examination
(CSEE) with a pass in at least four (4) non-Religious subjects,
three of which must be Mathematics, Physics, and Chemistry.

OR

Certificate of Secondary Education Examination (CSEE) from
Technical Secondary Schools with a minimum D pass in at
least four (4) non-Religious subjects, three of which must be
Mathematics, Engineering Science, and Chemistry.

OR

Possession of Certificate of Secondary Education Examination
(CSEE) with a pass in at least four (4) non-Religious subjects
two must be among the following subjects: Physics, Chemistry
and Mathematics with possession of TRADE TEST GRADE I
/ NVA LEVEL III issued by VETA.

3Years

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S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

23 Diploma of Technical
Education in Mechanical
Engineering

MBD23 Possession of Certificate of Secondary Education
Examination (CSEE) with a pass in at least four (4) Non-
religious subjects, three of which must be Mathematics,
Physics and Chemistry

OR

Possession of Certificate of Secondary Education
Examination (CSEE) from Technical Secondary Schools with
a pass in at least four (4) non- Religious subjects, three of
which must be Mathematics, Engineering Science, Chemistry
and any one of the following subjects: Architectural
Drafting/Building Construction, Electrical Engineering
Science/Electrical Drafting, Workshop

Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4) non-

Religious subjects, two must be among the following subjects:

Physics, Chemistry and Mathematics with possession of

TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

3Years

24 Diploma in Mechanical

Engineering with

Industrial Safety and

Occupational Health

MBD24 Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4) non-

Religious subjects, three of which must be Mathematics,

Physics, Chemistry

OR

Possession of Certificate of Secondary Education

Examination (CSEE) from Technical Secondary Schools

with a pass in at least four (4) non-Religious subjects, three

of which must be Mathematics, Engineering Science,

Chemistry and any one of the following subjects:

Architectural Drafting/Building Construction, Electrical

Engineering Science/Electrical Drafting, Workshop

Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4) non-

Religious subjects, two must be among the following

subjects: Physics, Chemistry and Mathematics with

possession of TRADE TEST GRADE I / NVA LEVEL III

issued by VETA.

3Years

25 Diploma of Business

Administration in

Marketing and

Entrepreneurship

MBD25 Possession of Certificate in business Administration and

other related qualifications including Certificate in

agriculture, Community Development.

OR

2Years

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S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

Possession of an Advanced Certificates for Secondary Education with at least 1 principal pass and 1 subsidiary

OR

Possession of Certificate of NVA level 3, ATEC I (NBAA)

Foundation stage I (PSPTB/NBMM).

26 Diploma in

Biotechnology

Possession of Advanced Certificate of Secondary Education

Examination (ACSEE) with at least two (2) principal passes

(D and above) of a maximum of 4.0 points in Biology,

Chemistry, Physics/Mathematics/Nutrition, or possess a

Certificate of Secondary Education Examination (CSEE) with

a minimum "D" pass in at least four (4) non-religious

subjects which must be Biology, Chemistry, Physics,

Mathematics /Nutrition.

3Years

6.10.4 ADMISSION REQUIREMENTS FOR BACHELOR PROGRAMMES FOR ACADEMIC YEAR 2024/2025 (For

Holders of Form Six Qualifications)

S/N Programme Code Admission Requirements Minimum

Institutional

Admission points

Admission

Capacity

Programmes

Duration (YRS)

1. Bachelor of Business

Administration

MB001 Two principal passes in the following subjects:

History, Geography, Kiswahili, English

Language, French, Arabic, Fine Art, Economics,

Commerce, Accountancy, Physics, Chemistry,

Biology, Advanced Mathematics, Agriculture,

Computer Science or Nutrition.

OR

Two principal passes of E in History, Geography,

Kiswahili, English Language, French, Arabic,

Fine Art, Economics, Commerce, Accountancy,
Physics, Chemistry, Biology, Advanced
Mathematics, Agriculture, Computer Science or
Nutrition with Foundation course of out with
minimum GPA of 3.0

4.0 300 3

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S/N Programme Code Admission Requirements Minimum

Institutional

Admission points

Admission

Capacity

Programmes

Duration (YRS)

2. Bachelor of Civil Engineering MB002 Two principal passes of at least "D" grade in
Mathematics and Physics; In addition, an
applicant must have minimum pass of D in
Mathematics, Physics and Chemistry at O level.

OR

Possession of two principal passes of E in
Advanced Mathematics and Physics with
Foundation Programme of the OUT with a
minimum GPA of 3.0.

4.0 200 4

3. Bachelor of Electrical Engineering MB003 Two principal passes of at least "D" grade
in

Advanced Mathematics and Physics; In addition
an applicant must have minimum pass of D in
Mathematics, Physics and Chemistry at O level.

OR

Possession of two principal passes of E in
Advanced Mathematics and Physics with
Foundation Programme of the OUT with a
minimum GPA of 3.0.

4.0 200 4

4. Bachelor of Technology in
Architecture

MB004 Two principal passes at least "D" grade in
Advanced Mathematics and Physics or Chemistry
or Geography; in addition, an applicant must have
minimum pass of D in Mathematics, Physics, and
Chemistry/Geography at O level.

OR

Possession of two principal passes of E in
Advanced Mathematics and
Physics/Chemistry/Geography with Foundation
Programme of the OUT with a minimum GPA of
3.0.

4.0 80 4

5. Bachelor of Mechanical
Engineering

MB005 Two principal passes of at least "D" grade in
Mathematics and Physics; In addition, an
applicant must have minimum pass of D in
Mathematics, Physics and Chemistry at O level.

OR

Possession of two principal passes of E in
Advanced Mathematics and Physics with
Foundation Programme of the OUT with a
minimum GPA of 3.0.

4.0 150 4

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S/N Programme Code Admission Requirements Minimum
Institutional

Admission points

Admission

Capacity

Programmes

Duration (YRS)

6. Bachelor of Computer
Engineering

MB006 Two principal passes of at least "D" grade in
Advanced Mathematics and Physics; In addition,
an applicant must have minimum pass of D in
Mathematics, Physics and Chemistry at O level.

OR

Possession of two principal passes of E in
Advanced Mathematics and Physics with
Foundation Programme of the OUT with a
minimum GPA of 3.0.

4.0 50 4

7. Bachelor of Science with
Education

MB007 Two principal passes of at least "D" grade in
Physics and Mathematics or Physics and
Chemistry or Chemistry and Biology or

Mathematics and Chemistry. In addition, an applicant must have a pass in Mathematics, Physics, Chemistry and Biology at O-Level.

OR

Possession of two principal passes of E in Physics and Mathematics or Physics and Chemistry or Chemistry and Biology or Mathematics and Chemistry with Foundation Programme of the OUT with a minimum GPA of 3.0.

4.0 160 3

8. Bachelor of Laboratory Sciences and Technology

MB008 Two principal passes of at least "D" grade in Biology and Chemistry or Physics; In addition, an applicant must have a pass in Mathematics, Physics, Chemistry and Biology at O-Level.

OR

Possession of two principal passes of E in Biology and Chemistry or Physics with Foundation Programme of the OUT with a minimum GPA of 3.0.

4.0 160 3

9. Bachelor of Engineering in Telecommunication Systems

MB009 Two principal passes in Advanced Mathematics and Physics at a minimum of "D" grade; In addition, an applicant must have minimum pass of D in Mathematics, Physics and Chemistry at O level.

OR

Possession of two principal passes of E in Advanced Mathematics and Physics with Foundation Programme of the OUT with a minimum GPA of 3.0.

4.0 50 4

10. Bachelor of Computer Science MB010 Two principal passes of Advanced Mathematics and Physics or Chemistry at a minimum of "D" grade. In addition, an applicant must have a

4.0 50 3

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S/N Programme Code Admission Requirements Minimum Institutional

Admission points

Admission

Capacity

Programmes

Duration (YRS)

minimum pass of "D" Basic Applied
Mathematics and English at O- level.

11. Bachelor of Science in

Information and Communication

Technology

MB011 Two Principal passes at a minimum of "D" grade
in the following subjects; Advanced
Mathematics, Physics, Geography, Biology,
Chemistry and Economics. In addition, an
applicant must have a minimum pass of "D" in
Basic Applied Mathematics and English at O-
level

4.0 50 3

12. Bachelor of Technical Education

in Electrical and Electronics

Engineering

MB012 Two principal passes in Advanced Mathematics
and Physics at a minimum of "D" grade. If one of
the principal passes is not either Advanced
Mathematics or Physics an applicant must have a
principal pass in one of the following subjects:
Chemistry or Geography or Biology; In addition,
an applicant must have minimum pass of D in
Mathematics, Physics and Chemistry at O level.

OR

Possession of two principal passes of E in
Advanced Mathematics and Physics, if one of the
principal passes is not either Advanced
Mathematics or Physics an applicant must have a
principal pass in one of the following: Chemistry
or Geography or Biology, with Foundation
Programme of the OUT with a minimum GPA of
3.0.

4.0 150 4

13. Bachelor of Technical Education

in Mechanical Engineering

MB013 Two principal passes in Advanced Mathematics
and Physics at a minimum of "D" grade. If one of
the principal passes is not either Advanced

Mathematics or Physics an applicant must have a principal pass in one of the following subjects: Chemistry or Geography or Biology; In addition, an applicant must have minimum pass of D in Mathematics, Physics and Chemistry at O level.

OR

Possession of two principal passes of E in Advanced Mathematics and Physics, if one of the principal passes is not either Advanced Mathematics or Physics an applicant must have a principal pass in one of the following subjects: Chemistry or Geography or Biology, with Foundation Programme of the OUT with a minimum GPA of 3.0.

4.0 150 4

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S/N Programme Code Admission Requirements Minimum Institutional

Admission points

Admission

Capacity

Programmes

Duration (YRS)

14. Bachelor of Technical Education

in Civil Engineering

MB014 Two principal passes in Advanced Mathematics and Physics at a minimum of "D" grade. If one of the principal passes is not either Advanced Mathematics or Physics an applicant must have a principal pass in one of the following subjects: Chemistry or Geography or Biology; In addition, an applicant must have minimum pass of D in Mathematics, Physics and Chemistry at O level.

OR

Possession of two principal passes of E in Advanced Mathematics and Physics, if one of the principal passes is not either Advanced Mathematics or Physics an applicant must have a principal pass in one of the following subjects: Chemistry or Geography or Biology, with Foundation Programme of the OUT with a minimum GPA of 3.0.

4.0 150 4

15. Bachelor of Technical Education
in Architectural Technology

MB015 Two principal passes in Advanced Mathematics and Physics at a minimum of "D" grade. If one of the principal passes is not either Advanced Mathematics or Physics an applicant must have a principal pass in one of the following subjects: Chemistry or Geography or Biology; In addition, an applicant must have minimum pass of D in Mathematics, Physics and Chemistry/Geography at O level.

OR

Possession of two principal passes of E in Advanced Mathematics and Physics, if one of the principal passes is not either Advanced Mathematics or Physics an applicant must have a principal pass in one of the following subjects: Chemistry or Geography or Biology, with Foundation Programme of the OUT with a minimum GPA of 3.0.

4.0 150 4

16. Bachelor of Technology in
Landscape Architecture

MB016 Two principal passes at least "D" grade at Advanced Level in Biology and Physics or Chemistry or Geography at A-Level and in addition an applicant must have a minimum pass of D in Mathematics, Physics, Biology and Chemistry/Geography at O-level

4.0 60 4

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S/N Programme Code Admission Requirements Minimum
Institutional

Admission points

Admission

Capacity

Programmes

Duration (YRS)

17. Bachelor of Engineering in Data
Science

MB017 Two principal passes of at least "D" grade at Advanced Level in Mathematics and Physics; In addition, an applicant must have a minimum pass

of D in Mathematics, Physics and Chemistry at O level.

OR

Possession of two principal passes of E in Advanced Mathematics and Physics with Foundation Programme of the OUT with a minimum GPA of 3.0.

4.0 70 4

18. Bachelor of Science in Food Science and Technology

MB018 Two principal passes of at least "D" grade in Chemistry and one subject among the following; Biology, Physics, Nutrition, Agriculture, Advanced Mathematics or Geography. In addition, an applicant must have minimum pass of D in Physics/Chemistry, Biology and Mathematics at O-level

4.0 120 3

19. Bachelor of Science in Natural Resources Conservation

MB019 Two principal passes of at least "D" grade at Advanced Level in Biology, and Chemistry/Geography/Agriculture/Nutrition; In addition, an applicant must have minimum pass of D grade in Biology and Chemistry/Geography/Agriculture and Nutrition At O-Level

4.0 130 3

20. Bachelor of Agribusiness Management and Technology

MB020 Two Principal Passes in the following subjects; Biology, Geography, Agriculture and Physics, Chemistry, Advanced mathematics, Economics, History, Food and Nutrition, Commerce, Accountancy.

In Addition, an applicant must have a pass in (4) non- Religious subjects of which one must be among the following; Biology, Commerce, Geography or Agriculture.

4.0 300 3

21. Bachelor of Sciences in Biotechnology

MB021 Two principal passes of at least „D" grade at Advanced Level in Mathematics, Biology and

Chemistry or Physics.

4.0 40

22. Bachelor of Science in Chemistry MB022 Two principal passes in Chemistry and in one of

the following subjects: Physics, Mathematics, Biology, Geography or Nutrition. In addition, an applicant MUST have passes in chemistry, physics and mathematics at O' Level.

4.0 40

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S/N Programme Code Admission Requirements Minimum

Institutional

Admission points

Admission

Capacity

Programmes

Duration (YRS)

23. Bachelor in Environmental

Science and Technology

MB023 Two principal passes of at least 'D' grade at

Advanced Level in Chemistry, Physics, Biology,

Advanced Mathematics or Geography. In

addition, an applicant must have a minimum pass of "D" in Biology and Mathematics at O-Level.

4.0 80

6.10.5 ADMISSION REQUIREMENTS FOR BACHELOR PROGRAMMES FOR ACADEMIC YEAR 2024/2025 (For

Holders of Diploma or Equivalent Qualifications)

S/N Programme Code Admission Requirements Admission

Capacity

Programme Duration

(YRS)

1. Bachelor of Business

Administration

MB001 Diploma in Business Administration, Education, Marketing Social

Studies, Industrial Relations, Economic Studies, Public Sector Finance

Management, Information Technology with Accounting or Human

Resource Management, Financial Administration, Business

Administration, Local Government Accounting and Finance,

Insurance and Risk Management, Customs and Tax Management,

Freight Clearing and Forwarding, Statistics, Business Management,

Procurement and Logistic Management or Banking and Finance with

an average of "B" or a minimum GPA of 3.0.

100 3

2. Bachelor of Civil Engineering

MB002 Diploma or Full Technician Certificate (FTC) in Civil, Architecture, Mining, Water Resources, Highway, Transportation, Civil and Irrigation Engineering, Water Supply and Sanitation, Civil and Transportation, Civil and Community Development, Hydrogeology and water well drilling, Hydrology and Meteorology or Water Laboratory Technology, Technical Education in Civil with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders. In addition, an applicant must have a minimum of "D" grade in Mathematics, Physics and Chemistry at O-Level.

OR

In addition, an applicant must have at least four (4) Passes at O-Level, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

100 4

3. Bachelor of Electrical Engineering

MB003 Diploma or Full Technician Certificate (FTC) in Electrical, Electrical and Electronics, Biomedical Equipment Engineering, Renewable Energy, Electrical and Biomedical, Electronics and Telecommunication or Mechatronics Engineering, Technical Education in Electrical with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders.

In addition, an applicant must have a minimum of "D" grade in Mathematics, Physics and Chemistry at O-Level.

OR

100 4

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S/N Programme Code Admission Requirements Admission Capacity

Programme Duration (YRS)

In addition, an applicant must have at least four (4) passes at O- Level, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

4. Bachelor of Technology in Architecture

MB004 Diploma or Full Technician Certificate (FTC) in Architecture,

Architectural Technology, Technical Education in Architectural Technology with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders. In addition, an applicant must have a minimum of "D" grade in Mathematics, Physics and Chemistry/ Geography at O-Level.

OR

In addition, an applicant must have at least four (4) Passes at O-Level, two must be among the following subjects: Physics, Mathematics and Chemistry/ Geography with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

80 3

5. Bachelor of Mechanical Engineering

MB005 Diploma or Full Technician Certificate (FTC) in Mechanical, Automotive, Automobile or Mechatronics Engineering Technical Education in Mechanical, Agro mechanics with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders in addition, an applicant must have a minimum of "D" grade in Mathematics, Physics and Chemistry at O-Level.

OR

In addition, an applicant must have at least four (4) Passes at O-Level, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA

100 4

6. Bachelor of Computer Engineering

MB006 Diploma or Full Technician Certificate (FTC) in Computer Engineering, Computer Science, Software Engineering, Telecommunication Engineering, Information and Communication Technology (ICT), Electrical and Electronics or Mechatronics Engineering with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders. In addition, an applicant must have a minimum of "D" grade in Mathematics, Physics and Chemistry at O-Level.

OR

In addition, an applicant must have at least four (4) Passes at O-Level, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

50 4

7. Bachelor of Science in Education

MB007 Diploma in Education, Diploma in Laboratory Science and Technology, Diploma in Technical Education with an average of "B" or a minimum GPA of 3.0.

50 3

8. Bachelor of Laboratory Sciences and Technology

MB008 Diploma or Full Technician Certificate (FTC) in Laboratory Science and Technology with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders in addition, an applicant must have a minimum of "D" grade in Mathematics, Physics, Chemistry and Biology at O-Level.

OR

In addition an applicant must have at least four (4) Passes at O-Level,

50 3

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S/N Programme Code Admission Requirements Admission Capacity
Programme Duration (YRS)

two must be among the following subjects: Physics, Chemistry, Biology and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

9. Bachelor of Engineering in Telecommunication Systems

MB009 Diploma or Full Technician Certificate (FTC) in Electronics and Telecommunication or Electrical and Electronic or Electrical Engineering with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders in addition, an applicant must have a minimum of "D" grade in Mathematics, Physics and Chemistry at O-Level.

OR

In addition, an applicant must have at least four (4) Passes at O-Level, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

20 4

10. Bachelor of Computer Science

MB010 Diploma or Full Technician Certificate (FTC) in Computer Engineering, Computer Science, Software Engineering,

Telecommunication Engineering, Information and Communication Technology (ICT) with an average of "B" or a minimum GPA of 3.0. In addition, an applicant must have four passes at O-Level, among them two must be Basic Mathematics and English.

20 3

11. Bachelor of Science in
Information and
Communication
Technology

MB011 Diploma or Full Technician Certificate (FTC) in Computer Engineering, Computer Science, Electrical and Electronics, Information and Communication Technology (ICT), or Mechatronics Engineering with an average of "B" or a minimum GPA of 3.0. In addition, an applicant must have four passes at O-Level; among them two must be Basic Mathematics and English.

20 3

12. Bachelor of Technical
Education in Electrical
and Electronics
Engineering

MB012 Diploma or Full Technician Certificate (FTC) in Technical Education, Electrical or Electrical and Electronics with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders
OR

In addition, an applicant must have at least four (4) Passes at O-Level, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

30 4

13. Bachelor of Technical
Education in
Mechanical
Engineering

MB013 Diploma or Full Technician Certificate (FTC) in Technical Education, Mechanical, Automotive, Automobile or Mechatronics Engineering with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders
OR

In addition an applicant must have at least four (4) Passes at O-Level, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

30 4

14. Bachelor of Technical

Education in Civil
Engineering

MB014 Diploma or Full Technician Certificate (FTC) in Technical Education, Civil Engineering, Civil and Irrigation Engineering, Civil and Transportation or Civil and Community Development with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders

OR

30 4

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S/N Programme Code Admission Requirements Admission
Capacity

Programme Duration
(YRS)

In addition, an applicant must have at least four (4) Passes at O-Level, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

15. Bachelor of Technical

Education in
Architectural
Technology

MB015 Diploma or Full Technician Certificate (FTC) in Architecture with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders

OR

In addition, an applicant must have at least four (4) Passes at O-Level, two must be among the following subjects: Physics, Mathematics and Chemistry/ Geography with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

30 4

16. Bachelor of

Technology in
Landscape Architecture

MB016 Diploma or Full Technician Certificate (FTC) in Landscape Architecture or Architecture or Civil engineering with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders

OR

In addition, an applicant must have at least four (4) Passes at O-Level, two must be among the following subjects: Biology, Physics, Mathematics and Chemistry/ Geography with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

20 4

17. Bachelor of
Engineering in Data
Science

MB017 Diploma or Full Technician Certificate (FTC) in Computer Engineering, Computer Science, Software Engineering, Telecommunication Engineering, Information and Communication Technology (ICT) with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders.

OR

In addition, an applicant must have at least four (4) Passes at O-Level, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

20 4

18. Bachelor of Science in
Food Science and
Technology

MB018 Diploma in Food Sciences and Technology, Laboratory Science and Technology or Food Science and Nutrition with an average of "B" or a minimum GPA of 3.0. In addition, an applicant must have a pass in at least Four (4) passes at O-level, three of which must be Mathematics, Physics/Chemistry and Biology.

20 3

19. Bachelor of Science in
Natural Resources
Conservation

MB019 Diploma in Wildlife Management, Wildlife Conservation, Forestry, Fisheries, Beekeeping, with an average of "B" or a minimum GPA of 3.0. In addition, an applicant must have four passes at O-Level; among them two must be Biology and Geography, Chemistry, Nutrition or Agriculture.

30 3

20. Bachelor of
Agribusiness
Management and
Technology

MB020 Diploma in Agribusiness, Agriculture, Agro mechanics and Irrigation with an average of "B" or a minimum GPA of 3.0. In addition, an applicant must have a minimum of "D" grade in one of the following subjects Agriculture or Commerce, Biology or Geography at O-Level.

100 3

21. Bachelor of Sciences in
Biotechnology

MB021 Diploma in Food Sciences and Technology, Laboratory Science and Technology or Food Science and Nutrition with an average of B or GPA not less than 3.0. In addition, an applicant must have a minimum of "D" 20 3

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S/N Programme Code Admission Requirements Admission

Capacity

Programme Duration

(YRS)

grade in one of the following subjects: Physics, Geography, Nutrition or Agriculture at O-Level.

22. Bachelor of Science in

Chemistry

MB022 Diploma in education or other diploma in sciences with an average of B or GPA not less than 3.0. In addition, an applicant MUST have passes in chemistry, physics and mathematics at O' Level.

20 3

23. Bachelor in

Environmental Science

and Technology

MB023 Diploma in Laboratory Science and Technology, Food Science and Technology, Environmental Health Sciences, Water Supply and Sanitation Engineering, Civil Engineering, Mining Engineering, Water Resources Engineering, Irrigation Engineering, Geology, Aquaculture/Marine Sciences, Agriculture, Forestry and Botany, Energy, Biology/Microbiology, Chemistry/Biochemistry and Physics OR Diploma in Secondary Education with any of the following teaching subjects; Biology, Chemistry, Physics and Mathematics with an average of B or GPA not less than 3.0. OR Foundation Programme of The OUT with a minimum GPA of 3.0. In addition, an applicant must have a minimum pass of "D" in Biology and Mathematics at O-Level

40 3

7.0 UNIVERSITY GENERAL REGULATIONS

Upon admission all first-year students must obtain and thoroughly read the following:

- i. Students' By-laws.
- ii. Conditions for Government Sponsorship
- iii. Examination Regulations.
- iv. Library Regulations
- v. Industrial Practical Training Regulations
- vi. Constitution of MUSTSO
- vii. Any Other Relevant Rules, Guidelines and Regulations of the University

Any of these regulations can be obtained from the Director of Undergraduate Studies, Directorate of Student Services or Heads of respective Departments and University Library. Students can also access these Regulations directly from MUST website: www.must.ac.tz
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8.0 COURSES OFFERED IN VARIOUS PROGRAMMES

8.1 COLLEGE OF ENGINEERING AND TECHNOLOGY (CET)

8.1.1 DEPARTMENT OF CIVIL ENGINEERING

Programmes

The Department offers the following Programmes:

- a) Diploma in Civil Engineering
- b) Diploma in Highway Engineering
- c) Bachelor of Civil Engineering

8.1.1.1 LABORATORIES AND WORKSHOPS

- i. Pneumatic and Hydraulics Laboratory
- ii. Soil and Materials Testing Laboratory
- iii. Land Surveying Laboratory

8.1.1.2 LIST OF STAFF

(Head of Department)

Dr. Partice Nyangi Mkono Ph.D. in Structural Engineering (HUST, China), MSc. Civil Eng. (USTHB, Algeria), BSc. Civil Eng. (USTHB, Algeria).

Professors:

Prof. Zacharia Katambara Ph.D. WRE (Witwatersrand-South Africa), MSc. WRE Engineering (UDSM), BSc Civil Engineering (UDSM)

Senior Lecturer:

Dr. Duwa H. Chengula Ph.D. Materials Science (Kassel University – Germany), MSc. Highway Eng.

(UDSM) BSc. Civil Eng. (UDSM), FTC Civil Eng. (MTC)

Dr. Gislari Kifanyi Ph.D. WRE (Tshwane University of Technology – SA), MEM. (UDSM), PGD

(UDSM), BSc Civil Eng. (UDSM)

Lecturers:

Dr. Hieromin Mboya** Ph.D. Material Science and Eng. (Structural Material), MSc. Structural Eng.

(UDSM), PGD Structural Eng. (UDSM), ADE Civil Eng. (DIT), FTC Civil Eng. (MTC).

Dr. Partice Nyangi Mkono Ph.D. in Structural Engineering (HUST, China), MSc. Civil Eng. (USTHB, Algeria), BSc. Civil Eng. (USTHB, Algeria).

Mr. Joseph K. Mnkeni MSc. Highway Eng. (UDSM), PGD Highway Eng. (UDSM), ADE Civil Eng.

(DIT), FTC Civil Eng. (TCA)

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Assistant Lecturers

*Mr. Asson S. Malisa MSc. Materials Science Engineering, (NMAIST); BSc. Civil Engineering.

(UDSM)

*Mr. George Lupakisyo MSc. WRE (UDSM), BSc Civil Engineering. (UDSM).

*Mr. Martin Swila MSc. Structural Engineering (UDSM), BSc. Civil Engineering, (UDSM)

Mr. Ivor J. Ndimbo Master of Technology Water Resources Development. (IIT-Roorkee INDIA);

BSc. Civil Engineering (UDSM).

Mr. Mathew A. Gwao MSc. Geographical Information Systems (UDSM) BSc. Land Survey (UDSM)

*Mr. Daudi J. Makelemo MSc. Construction Economics and Management (ARU), BSc. Civil Engineering

(ARU).

*Mr. Richard M Mkindo MTech. Structural Eng. (NITK – India), Bachelor Civil Engineering (MUST)

Mr. Asifiwe Z. Swalo MTech. Transportation Eng. (NITK – India), Bachelor Civil Engineering (MIST),

Ordinary Diploma Civil Engineering (DIT).

Mr. Mussa G. Magaka MSc. Structural Engineering (UDSM), Bachelor Civil Engineering (MIST).

*Mr. Adam Shaaban Mgana MSc. Environmental Engineering (Cyprus International University- Cyprus), BSc.

Environmental Engineering (Cyprus International University- Cyprus), Diploma in Water Supply and Sanitation Engineering (Water Institute)

Mr. Kizito Patrick Mwilongo MSc. Materials Science and Engineering (Structural Materials) (Nelson Mandela

African Institution of Science and Technology, Arusha – Tanzania), BSc. Civil Engineering (St. Augustine University of Tanzania, Mwanza – Tanzania).

Tutorial Assistants

Mr. Venance R. Mwandupe BEng. Civil (MIST), FTC Civil Eng. (MTC),

Mr. Baraka Mosses BSc in Civil Engineering (Arusha Technical College)

*Ms Shamsa M. Nassibu Bachelor Civil Engineering (MUST), FTC Civil Eng. (TCA).

Mr. Cyriacus J. Rugakingira BSc. Civil (UDSM); FTC. Civil (Dar es Salaam Technical College)

Mr. George C. Lyimo BSc. Civil and Structural Engineering (UDSM); FTC. Civil (ATC)

Mr. Godfrey Mbungula Bachelor Civil Engineering (MUST), FTC (DIT)

Mr. Herfrid J. Mgeni ADE. Civil (MIST); FTC. Civil (MTC)

*Mr. Lameck Owiti Bachelor Civil Engineering (MUST)

Mr. Alfred B. Nyingi Bachelor Civil Engineering (MUST), OD. Civil (ATC)
Mr. Lameck Simon Kongo BSc. in Geoinformatics (Ardhi University)
Ms. Margaret S. Kironde BSc. in Environmental Science and Management
Mr. Tony Mbugi Bachelor of Civil Engineering (MUST), Diploma in Civil Engineering (MUST)
Mr. Isaac Sagamiko Bachelor of Civil Engineering (MUST).

Instructors

Mr. Valentino A. Chaffu MSc. in Civil Engineering (Maintenance Management) (DIT);
Bachelor Civil
Engineering (MIST), FTC in Civil Engineering (MTC).

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Mr. Crodiwick W. Ruvunduka Bachelor Civil Engineering (DIT), Ordinary Diploma
Transportation Engineering
(TCA).

*Mr. Kizito A. Ngowi MSc. in Geographical Information System (UDSM), Bsc. Urban &
Reg. Planning
(ARU); Ordinary Diploma in Cartography (Ardhi Inst.-Tabora) .

Mr. Stephano S. Maduka Bachelor Civil Engineering (MUST, Ordinary Diploma in
Transportation
Engineering (ATC)*

*Mr. Goodluck M. Masige MSc. Water and Sanitation Utility Management (AgroParis-
France), Bsc in Civil
Engineering (MUST)

Mr. Mohamed J. Mohamed MSc. Highway Eng. (UDSM), PGD Transportation Eng.
(UDSM), ADE Civil Eng.
(DIT), FTC Civil Eng. (DTC)

Mr. Edson B. Rogasian Bachelor Degree in Civil Engineering (MUST), Ordinary
Diploma in Civil
Engineering (MIST)

Technicians

Mr. Samwel J. Kihogo Bachelor Degree in Civil Engineering (MUST), Ordinary Diploma
in Civil
Engineering (MIST)

Mr. Aaron J. Maganga Bachelor Degree in Civil Engineering (MUST), FTC in Water
Laboratory
Technology (Water Resource Institute)

Mr. Nehemia Matabalo Bachelor Degree in Civil Engineering (MUST), OD. Civil Eng.
(MUST)

Ms. Editha Z. Faida Ordinary Diploma in Civil Engineering (MUST)

Artisans

Mr. Joseph Gesu Senior Artisan I

Mr. Lukonde Ng'andu Senior Artisan I

Office Secretary

Ms. Eliza Daniel Mwaisabila Diploma in Secretary and Ordinary Diploma in Business Administration

*On study leave

**Secondment

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8.1.1.3 PROGRAMME COURSES

DIPLOMA IN CIVIL ENGINEERING

A. Diploma in Civil Engineering (1st Year)

Semester I

Code Name Core or Elective Credits

MS 6128 Advanced Mathematics I Core 5

NS 6141 Advanced Physics I Core 5

HS 6117 Communication skills Core 5

IT 6116 Basic Computer Applications Core 5

HS 6116 Elements of Development Studies Core 5

CE 6101 Building Construction I Core 5

CE 6102 Building Workshop Practice I Core 10

CE 6103 Civil Engineering Materials I Core 9

CE 6104 Introduction to Engineering Drawing Core 8

CE 6105 Road Construction I Core 6

TOTAL 63

Semester II

Code Name Core or Elective Credits

MS 6129 Advanced Mathematics II Core 5

NS 6142 Advanced Physics II Core 5

IT 6117 Computer Applications Core 5

BM 6122 Entrepreneurship Core 5

CE 6106 Building Maintenance I Core 6

CE 6107 Building Workshop Practice II Core 12

CE 6108 Land Surveying I Core 6

CE 6109 Road Maintenance I Core 6

CE 6110 Soil Mechanics I Core 6

CE 6111 Structural Mechanics I Core 6

TOTAL 62

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B. Diploma in Civil Engineering (2nd Year)

Semester I

Code Name Core or Elective Credits

MS 6221 Advanced Mathematics III Core 5

NS 6221 Advanced Physics III Core 5

CE 6201 Building construction II Core 6

CE 6202 Building Design and Drawing Core 8

CE 6203 Building Workshop Practice III Core 8
CE 6204 Civil Engineering Materials II Core 6
CE 6205 Pavement Design and Construction Core 6
CE 6206 Soil Mechanics II Core 6
CE 6207 Structural Mechanics II Core 6
CE 6208 Industrial Practical Training Core 10

TOTAL 66

Semester II

Code Name Core or Elective Credits

MS 6225 Advanced Mathematics IV Core 5
NS 6223 Advanced Physics IV Core 5
CE 6209 Basics of Technical Report Writing Core 5
CE 6210 Building Maintenance II Core 5
CE 6211 Construction Management I Core 5
CE 6212 Land Surveying II Core 8
CE 6213 Quantity Surveying I Core 5
CE 6214 Reinforced Cement Concrete Design III Core 6
CE 6215 Road Maintenance II Core 5
CE 6216 Soil Mechanics III Core 5
CE 6217 Water Supply Core 8

TOTAL 62

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C. Diploma in Civil Engineering (3rd Year) Semester I

Semester II

DIPLOMA IN HIGHWAY ENGINEERING

A. Diploma in Highway Engineering (1st Year)

Semester I

Code Name Core or Elective Credits

MS 6128 Advanced Mathematics I Core 5
NS 6141 Advanced Physics I Core 5
HS 6117 Communication skills Core 5
IT 6116 Basic Computer Applications Core 5
HS 6116 Elements of Development Studies Core 5
CE 6101 Building Construction I Core 5
CE 6102 Building Workshop Practice I Core 10
CE 6103 Civil Engineering Materials I Core 9
CE 6104 Introduction to Engineering Drawing Core 8
CE 6105 Road Construction I Core 6

TOTAL 58

Code Name Core or Elective Credits

CE 6301 Building Construction III Core 7
CE 6302 Construction management II Core 7
CE 6303 Fluid Mechanics and Hydraulics Core 8

CE 6304 Quantity Surveying II Core 7
CE 6305 Reinforced Cement Concrete Design II Core 7
CE 6306 Structural Timber Design Core 8
CE 6307 Project I Core 8
CE 6308 Industrial Practical Training Core 10
TOTAL 62

Code Name Core or
Elective Credits

CE 6313 Building Construction IV Core 7
CE 6312 Civil Engineering Materials III Core 7
CE 6311 Construction Management III Core 7
CE 6309 Foundation Engineering Core 8
CE 6310 Reinforced Cement Concrete Design II Core 7
CE 6315 Structural Steel Design Core 8
CE 6314 Wastes Management Core 8
CE 6316 Project II Core 10
TOTAL 62

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Semester II

Code Name Core or Elective Credits

MS 6129 Advanced Mathematics II Core 5
NS 6142 Advanced Physics II Core 5
IT 6117 Computer Applications Core 5
BM 6122 Entrepreneurship Core 5
CE 6106 Building Maintenance, I Core 6
CE 6107 Building Workshop Practice II Core 12
CE 6108 Land Surveying I Core 6
CE 6109 Road Maintenance I Core 6
CE 6110 Soil Mechanics I Core 6
CE 6111 Structural Mechanics I Core 6
TOTAL 62

B. Diploma in Highway Engineering (2nd Year)

Semester I

Code Name Core or Elective Credits

MS 6221 Advanced Mathematics III Core 5
NS 6221 Advanced Physics III Core 5
CE 6201 Building construction II Core 6
CE 6202 Building Design and Drawing Core 8
CE 6203 Building Workshop Practice III Core 8
CE 6204 Civil Engineering Materials II Core 6
CE 6205 Pavement Design and Construction Core 6
CE 6206 Soil Mechanics II Core 6
CE 6207 Structural Mechanics II Core 6

CE 6208 Industrial practical training Core 10

TOTAL 66

Semester II

Code Name Core or

Elective Credits

MS 6225 Advanced Mathematics IV Core 5

NS 6223 Advanced Physics IV Core 5

CE 6209 Basics of Technical Report Writing Core 5

CE 6210 Building Maintenance II Core 5

CE 6211 Construction Management I Core 5

CE 6212 Land Surveying II Core 8

CE 6213 Quantity Surveying I Core 5

CE 6214 Reinforced Cement Concrete Design III Core 6

CE 6215 Road Maintenance II Core 5

CE 6216 Soil Mechanics III Core 5

CE 6217 Water Supply Core 8

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C. Diploma in Highway Engineering (3rd Year)

Semester I

Code Name Core or Elective Credits

CE 6321 Coordinate Geometry and Differential Equations Core 7

CE 6322 Correspondence, and Report Writing Core 7

CE 6323 Route design Core 8

CE 6324 Pavement Materials Core 7

CE 6325 Traffic and Transportation Engineering Core 7

CE 6320 Soil Mechanics and foundations Core 8

CE 6306 Structural Timber Design Core 8

CE 6308 Industrial Practical Training Core 10

TOTAL 62

Semester II

Code Name Core or

Elective Credits

CE 6329 Social and Environmental Management Core 7

CE 6328 Hydraulics and fluid mechanics Core 7

CE 6311 Construction Management III Core 7

CE6227 Pavement Engineering Core 8

CE 6314 Structural Steel Design Core 7

CE 6327 Basic Bridge Construction and maintenance Core 6

CE 6316 Project II Core 8

TOTAL 64

BACHELOR OF CIVIL ENGINEERING

A. Bachelor of Civil Engineering (1st Year)

Semester I

Code Name Core or
Elective Credits

MS 8101 Linear Algebra and Calculus Core 6

HS 8101 Communication Skills Core 9

CS 8104 Programming Concepts Core 9

DS 8101 Development Studies Core 6

BM 8108 Entrepreneurship Education Core 6

CE 8101 Engineering Drawing I Core 9

CE 8102 Construction Technology I Core 9

CE 8103 Workshop practice Core 8

CE 8104 Structural Mechanics I Core 8

TOTAL 62

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TOTAL 70

Semester II

Code Name Core or Elective Credits

MS 8102

DS 8108

Advanced Calculus

Development Perspectives

Core

Core

6

6

CS 8110 Advanced C Programming Core 6

CE 8105 Engineering Drawing II Core 9

CE 8106 Construction Technology II Core 9

CE 8107 Building Construction Core 7

CE 8108 Mechanics of Structures Core 8

CE 8109 Land Survey Core 6

TOTAL 60

B. Bachelor of Civil Engineering (2nd Year)

Semester I

Code Name Core or Elective Credits

MS 8201 Differential Equations Core 6

CE 8201 Soil Mechanics I Core 6

CE 8102 Civil Engineering Materials.-I Core 6

CE 8203 Fluid Mechanics Core 6

CE 8204 Engineering Survey I Core 9

CE 8205 Road Construction and Maintenance Core 9

CE 8206 Concrete Technology Core 6

CE 8207 Structural Analysis I Core 6

CE 8116 Industrial Practical Training Core 10

TOTAL 64

Semester II

Code Name Core or Elective Credits

MS 8303 Statistics and Numeric Analysis Core 6

CE 8208 Engineering Survey II Core 9.5

CE 8209 Fluid Mechanics and Hydraulics Core 9.5

CE 8210 Engineering Geology Core 6

CE 8211 Civil Engineering Materials.-II Core 9

CE 8212 Soil Mechanics II Core 6

CE 8213 Structural Analysis II Core 8

CE 8214 Building Planning and Drawing Core 6

TOTAL 60

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C. Bachelor of Civil Engineering (3rd Year)

Semester I

Code Name Core or Elective Credits

CE 8301 Quantity Survey I Core 7

CE 8302 Geometric Design and Traffic Engineering Core 9

CE 8303 Reinforced Concrete Design and Detailing I Core 10

CE 8304 Foundation Engineering Core 10

CE 8305 Highway Engineering Materials Core 6

CE 8306 Construction Management Core 8

CE 8307 Engineering Hydrology Core 6

CE 8216 Industrial Practical Training II Core 10

TOTAL 66

Semester II

Code Name Core or Elective Credits

CE 8308 Building Services Core 6

CE 8309 Quantity Surveying II Core 8

CE 8310 Reinforced Concrete Design and Detailing II Core 9

CE 8311 Water Supply Engineering Core 6

CE 8312 Contract Planning and Administration Core 9

CE 8313 Pavement Design and Construction Core 7

CE 8314 Research Methodology Core 7

CE 8315 Construction of Multi-Storey Structures Core 8

TOTAL 60

Bachelor of Civil Engineering (4th Year)

Semester I

Code Name Core or Elective Credits

CE 8401 Engineering Economics Core 6

CE 8402 Structural Steel Design Core 6

CE 8403 Waste Water Management Core 6

CE 8404 Pavement Maintenance Core 6

CE 8405 Bridge Design and Construction Core 6
CE 8406 Pre-Stressed Concrete Design Elective 6
CE 8407 Irrigation Engineering Elective 6
CE 8408 Project I Core 18
CE 8316 Industrial Practical Training III Core 10
TOTAL 70

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Semester II

Code Name Core or Elective Credits

CE 8409 Design of Masonry and Retaining Structures Core 6
CE 8410 Structural Timber Design Core 6
CE 8411 Solid Waste Management Core 6
CE 8412 Industrial Building Construction Core 6
CE 8413 Hydraulic Structures Core 6
CE 8414 Transportation Engineering Elective 6
CE 8415 Water Resources Management Elective 6
CE 8416 Project II Core 18

TOTAL 60

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8.1.2 DEPARTMENT OF GEOSCIENCE AND MINING TECHNOLOGY

Programmes

The Department currently offers one (1) Programme:

A. Diploma in Mining Engineering

8.1.2.1 LABORATORIES AND WORKSHOPS

i. Mining Laboratory

8.1.2.2 LIST OF STAFF

(Head of Department)

Dr. Alex W. Mwang'ande PhD. Oil & Gas Wells Eng. (China University of Petroleum, East China); MSc.

Petroleum Eng. (Norwegian University of Science and Technology); BSc. Mech. Eng. (UDSM)

Lecturers:

Dr. Alex W. Mwang'ande PhD. Oil & Gas Wells Eng. (China University of Petroleum, East China); MSc.

Petroleum Eng. (Norwegian University of Science and Technology); BSc. Mech. Eng. (UDSM)

Dr. Muya Somo Mgaza PhD. Geotechnical Eng. (Huazhong University of Science and Technology

[HUST]); MSc. Geotechnical Eng. (HUST); BSc. Geology (UDSM).

Dr. Raphael Iddphonc Mkini PhD. Oil and Natural Gas Eng. (China University of Geosciences, Wuhan); MSc

Renewable Energy. Eng (UDSM); BSc. Mech. Eng. (UDSM)

Dr. Alvin Kajongo Mulashani PhD. Oil and Natural Gas Eng. (China University of Geosciences, Wuhan); MSc.

Oil and Gas Dev. Eng. (Xi'an Shiyou, China); BSc. Mech. Eng. (MIST).

Dr. Melckzedek M. Mgimba PhD. Oil and Natural Gas Eng. (China University of Geosciences, Wuhan); MSc.

Petroleum Eng. (Norwegian University of Science and Technology); BSc. Mining Eng. (UDSM)

Assistant lecturers

Mr. Wilson L. Ngole MSc. Petroleum Eng. (Norwegian University of Science and Technology); BSc.

Mining Eng. (UDSM)

Mr. Nickson N. Lushasi* MSc. Oil and Natural Gas Eng. (China University of Geosciences, Wuhan); BSc.

Mining Eng. (UDSM)

Mr. Osmund E. Mwangupili* MSc. Oil and Natural Gas Eng. (China University of Petroleum, East China); BSc.

Mining Eng. (UDSM)

Mr. Salehe R. Mayange MSc. Hydrogeology (University of Badji Mokhtar Annaba [UBMA] – Algeria);

BSc. Applied Geology (UBMA).

Mr. Oltingey T. Lindi* MSc. Petroleum Eng. (Norwegian University of Science and Technology); BSc.

Mining Eng. (UDSM)

Mr. Deus A. Msumange* MSc. Mining Eng. (Karadeniz Technical University, Turkey); BSc. Geology

(Badji Mokhtar Annaba University [UBMA], Algeria)

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Instructors

Mr. Adamu Musa MSc. Oil and Natural Gas Eng. (China University of Geosciences, Wuhan); BSc.

Mining Eng. (UDSM)

Mr. Frank A. Mwakyembe* BSc. Mining Eng. (UDSM)

Mr. Abasi A. Hawaii BSc. Mining Eng. (UDSM)

Technicians

Ms. Asha Thobias Chiwanga* Ordinary Diploma in Mining Eng. (MRI-Dodoma)

Office Secretary

Ms. Marjory E. Katage* Certificate in Social work

*On study leave

8.1.2.3 PROGRAMME COURSES

DIPLOMA IN MINING ENGINEERING

A. Diploma in Mining Engineering (1st Year)

Semester-I

Code Name Core or Elective Credits

GM 6101 Introduction to Mining Core 6
GM 6102 Introduction to Physical Geology Core 6
CE 6118 Introduction to Engineering Drawing Core 8
CE 6120 Building Workshop Practice – I Core 10
CE 6208 Land Surveying - I Core 6
MS 6128 Advanced Mathematics - I Core 6
NS 6141 Advance Physics - I Core 6
HS 6116 Elements of Development Studies Core 6
HS 6117 Communication Skills Core 6
IT 6116 Introduction to Computer Core 6
TOTAL 66

Semester-II

Code Name Core or Elective Credits

GM 6103 Introduction to Basics of Surface Mining Core 9
GM 6104 Basic Mineralogy, Petrology and Ore Geology Core 6
GM 6105 Introduction to Safety and Risk Assessment in Mining Core 9
CE 6122 Building Workshop Practice – II Core 12
CE 6215 Land Surveying- II Core 6
MS 6129 Advanced Mathematics - II Core 6
NS 6140 Advanced Physics - II Core 6
BM 6122 Entrepreneurship Core 6
IT 6117 Computer Application Core 6
TOTAL 66

B. Diploma in Mining Engineering (2nd Year)

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Semester I

Code Name Core or Elective Credits

GM 6201 Drilling and Blasting- I Core 12
GM 6202 Mine Equipment and Maintenance Management Core 12
GM 6203 Introduction to Mine Environment Core 9
GM 6204 Field Practical Training-I Core 10
CE 6307 Fluid Mechanics and Hydraulics Core 9
MS 6221 Calculus Core 6
NS 6221 Advanced Physics - III Core 6
TOTAL 64

Semester II

Code Name Core or Elective Credits

GM 6205 Drilling and Blasting-II Core 12
GM 6206 Introduction to Rock Mechanics Core 12
GM 6207 Introduction to Mineral Economics and Mining Regulatory Framework Core 12
GM 6208 Basics of Ore Dilution and Production Control Core 6
GM 6209 Basics of Technical Report Writing Core 6

GM 6210 Small Scale Mining Techniques Core 6

MS 6225 Advanced Mathematics - III Core 6

NS 6223 Advanced Physics - IV Core 6

TOTAL 66

C. Diploma in Mining Engineering (3rd Year)

Semester I

Code Name Core or Elective Credits

GM 6301 Underground Mining Core 12

GM 6302 Introduction to Tailing Storage Facilities Core 9

GM 6303 Introduction to Mine Surveying Core 9

GM 6304 Mining Laboratory - I Core 6

GM 6305 Introduction to Hydrogeology Core 9

GM 6306 Project – I Core 9

GM 6307 Field Practical Training- II Core 10

TOTAL 64

Semester - II

Code Name Core or Elective Credits

ts

GM 6308 Underground Mine Support Systems Core 9

GM 6309 Mine Ventilation Core 12

GM 6310 Material Handling System Core 9

GM 6311 Mining Laboratory – II Core 6

GM 6312 Introduction to Management in Mining Core 9

GM 6313 Introduction to Mineral Processing Techniques Core 12

GM 6314 Project – II Core 9

TOTAL 66

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8.1.3 DEPARTMENT OF ELECTRICAL AND POWER ENGINEERING

Programmes

Currently, the Department offers two (2) Programmes:

- i. Diploma in Electrical and Electronics Engineering
- ii. Bachelor of Electrical and Electronics Engineering

8.1.3.1 LIST OF STAFF

(Head of Department)

Dr. Isaka J. Mwakitalima, PhD. Electrical Eng. (Delhi Technological University, India),
MSc. Sustainable

Energy (NM-AIST), Bachelor Electrical and Electronics (SJCET), Dip.Ed.

Electrical (Klerruu TTC), FTC Electrical (ATC)

Senior Lecturers

Dr. John P. John, PhD. Energy Eng. (Berlin Tech. University-Germany), MSc. Elect. Eng.
(UDSM), B. Eng. Elect. (DIT), FTC. (ATC)

Dr. Arthur Mngoma Omari, PhD Energy Eng. (NM-AIST), MSc Elec. Eng. (Kharkov State
Technical

University of Agriculture- Ukraine), Tech. Ed. (Morogoro)

Lecturers

Dr. Isaka J. Mwakitalima, PhD. Electrical Eng. (Delhi Technological University, India), MSc. Sustainable

Energy (NM-AIST), Bachelor Electrical and Electronics (SJCET), Dip.Ed.

Electrical (Klerruu TTC), FTC Electrical (ATC).

Assistant Lecturers

Mr. Watson E. Yotham, MSc. Elect. Eng. (UDSM), BSc. Elect. Eng. (UDSM), Tech. Ed. (Morogoro)

*Mr. Owdean M. Suwi, Msc. Elect. Eng. (UDSM), BSc. Elect Eng., (UDSM). Tech. Ed. (Morogoro)

*Mr. Sospeter I. Gabriel, MSc. Elect. Eng. (UDSM), B. Eng. Elect. (DIT), FTC Elect.Eng. (DIT)

Mr. Vincet V. Massawe, MSc Elect.Eng. (St. Petersburg State Polytechnical University- Russia); BSc

Elect. Eng. (Russia); FTC in Mech. Eng. (ATC)

*Mr. Godwin E Mnkeni, MSc. Elect. Eng. (UDSM), ADE Elect. Eng. (DIT), Dip. Elect. Eng. (Kidatu),

Tech. Ed. (Morogoro)

*Mr. Exaud S. Tweve, MSc. Elect. Eng. (UDSM), ADE Elect.Eng. (DIT), FTC Elect. Eng. (MTC)

*Mr. Nicholas G. Moyo, MSc. Elect. Eng. (UDSM), PGD Elect. Eng. (UDSM), ADE (Elect. Eng. (DIT), FTC (ATC)

*Mr. Wilbert Ruta MSc. Elect. Eng (JKUo A), BEng. Electrical and Electronics (MUST), Diploma

Electrical and Electronics (MIST)

Mr. Joshua J. Mlay MEng. Power Engineering and Engineering Thermophysics (HUST)- CHINA,

BEng. Electrical and Electronics (MUST), DEng. Electrical and Electronics (MUST)

*Mr. Emmanuel G Swetala MTech Electrical Power Systems (JNTUA)-INDIA, BSc. Electrical Engineering (UDSM)

*Mr. Salehe S. Malamla Masters of Electrical Eng. Shandong University, China, BSc- Electrical (SAUT)

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Mr. Stuart Brown M. Eng. (Power Systems), BEng. Electrical and Electronics (SAUT) Tutorial Assistants

Mr. Makunja O. Bwire BEng. Electrical Engineering (MUST), DEng Electrical and Electronics (MIST)

Mr. Romanus P. Lyanda BSc. Electrical Engineering (UDSM)

Mr. Fredy F. Loita BSc. Electrical Engineering (UDSM)

*Mr. Gwamaka Mwasomola BEng. Electrical and Electronics (MUST)

Mr. Mnaka philipo Ndyanido BEng. Electrical and Electronics (MUST)

Mr. Mussa Salanya Petro BEng. Electrical and Electronics (MUST)

Instructors

*Mr. Raphael J. Mwasoni BEng. Electrical Engineering (DIT), DTE (KLERRUU TTC), FTC
Electrical

(MTC)

*Mr. Novatus Kimenyuka BEng. Electrical and Electronics (MUST), Deng. Electrical and
Electronics

(MIST)

*Mr. Andrew S. Mwampulo BEng. in Electrical and Electronics (MUST), DSE (Butimba
Teachers College)

*Mr. Furahini I Shelukindo BEng. Electrical and Electronics (MUST), Deng. Electrical
and Electronics

(MUST)

Technicians

Mr. Mateso Stephano Ntinyako Dip. Eng. (St. Joseph University in Tanzania)

Artisans

Mr. Joseph Nsembele Trade Test Grade One (Mbeya VTC)

*On study leave

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8.1.3.2 PROGRAMME COURSES

DIPLOMA IN ELECTRICAL AND ELECTRONIC ENGINEERING

A. Diploma in Electrical and Electronic Engineering (1st Year)

Semester I

Fundamental Courses

Code Name Credits

MS 6121 Advanced Mathematics I 6

NS 6139 Physical Science I 6

HS 6117 Communication Skills 6

IT 6116 Introduction to Computer 6

HS 6116 Element of Development Studies 6

Core Courses

EE 6116 Basics of Electrical engineering I 6

EE 6117 Basics of Electrical Installation and Maintenance 6

EE 6118 Fundamental of Electrical Materials 6

EE 6119 Electrical Workshop Technology I 8

EE 6120 Technical Drawing I 6

ET 6116 Basic of Electronics 6

TOTAL 68

Semester II

Fundamental Courses

Code Name Credits

MS 6122 Advanced Mathematics I I 6

NS 6145 Physical Science II 6

BM6122 Entrepreneurship 6

IT 6117 Computer Applications 6

Core Courses

ET 6117 Analogue Electronics 6

ET 6118 Analogue Electronics Lab 8

EE 6121 Basic of Electrical Engineering II 6

EE 6122 Electrical Measurements 6

EE 6123 Technical Drawing II 6

EE 6124 Electrical Workshop Technology II 8

TOTAL 64

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B. Diploma in Electrical and Electronic Engineering (2nd Year)

Semester I

Fundamental Courses

Code Name Credits

MS 6221 Advanced Mathematics III 6

CS 6224 Computer Programming Basics 7

Core Courses

EE 6201 Industrial Practical Training I 10

ET 6201 Digital Electronics I 6

EE 6202 DC Machines 7

EE 6203 Domestic Installation Testing and Commissioning 6

EE 6204 Electrical Equipments 6

EE 6205 Fundamental of automations I 6

EE 6206 Electrical Measurement Lab 6

EE 6207 Power Plant 6

TOTAL 66

Semester II

Fundamental Courses

Code Name Credits

ST 6221 Advanced Mathematics IV 6

CS 6202 Object Orient Programming 7

Core Courses

EE 6208 AutoCAD 7

EE 6209 Electrical power Transmission and Distribution 7

ET 6206 Digital Electronics II 8

EE 6210 Fundamental of Automation II 6

EE 6211 Introduction to Engineering Software 8

EE 6212 Statics AC Machines 7

EE 6213 Static and Dynamic Machines Control 9

TOTAL 66

C. Diploma in Electrical and Electronic Engineering (3rd Year)

Semester I

Core Courses

Code Name Credits

EE 6301 Industrial Practical Training II 10
EE 6302 Basic of Control System Engineering 6
EE 6303 Basics of Power Protection 7
EE 6304 Electrical Drives I 6
ET 6302 Microprocessor and Microcontrollers 8
EE 6305 Motor and Transformer Rewinding 8
EE 6306 Power System Operations and Control 7
EE 6307 Power Electronics 6
EE 6308 Project 1 8
TOTAL 66

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Semester II

Core Courses

Code Name Credits

EE 6317 Basic Telecommunication Engineering 6
EE 6309 Control Engineering 7
EE 6310 Electrical Drives II 6
EE 6311 Electrical Installations 6
EE 6312 Induction Motors 6
EE 6313 Power Protection 6
EE 6314 Programmable Logic Controller 7
EE 6315 Synchronous Machines 6
EE 6316 Renewable Energy 6
EE 6317 Project II 10
TOTAL 66

BACHELOR OF ELECTRICAL AND ELECTRONIC ENGINEERING

A. Bachelor of Electrical and Electronic Engineering (1st Year)

Semester I

Code Title Credit

EE 8101 Fundamentals of Electrical Measurement 4
EE 8102 Fundamentals of Electronics 4
EE 8103 Basics of Workshop Technology and Practice 9
EE 8104 Basics of Electrical Engineering 6
EE 8105 Electrical Installation and Safety 4
IT 8116 Computer Application 6
ME 8176 Fundamental of Technical Drawings I 5
MS 8121 Linear Algebra and Calculus 6
HS8101 Communication Skills 9
DS8101 Development Studies 6

BM 8108 Entrepreneurship 9

TOTAL 68

Semester II

Code Title Credit

EE 8106 Fundamental of Electronics Devices 6

EE 8107 Fundamentals of Electrical Power Systems 6

EE 8108 Fundamentals of Electrical Machines 9

EE 8109 Workshop Technology & Practice 9

EE 8110 Electrical Maintenance 6

EE 8111 Basics of Control Engineering 6

IT 8117 Computer Networking 7

ME8177 Technical Drawing 5

MS 8122 Advanced Calculus 6

DS 8108 Development Perspective 6

TOTAL 66

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B. Bachelor of Electrical and Electronic Engineering (2nd Year)

Semester I

Core courses

Code Title Credit

EE 8201 Industrial Practical Training I 10

EE 8202 Electrical Network Analysis 6

EE 8203 Electrical Measurement and Instrumentation. 6

EE 8204 Fundamentals of Analogue Electronics 6

EE 8205 Basics of Engineering Electromagnetic 6

ME 8277 Fundamental of Engineering Mechanics 5

EE 8206 Power Plant 6

EE 8207 Engineering software 5

MS 8221 Differential Equations 6

ME 8276 Engineering drawing I 6

TOTAL 62

Semester II

Core courses

Code Title Credit

MS 8222 Numerical Analysis and Statistics 6

EE 8208 Electrical Circuits Analysis 6

ME 8278 Computer Aided Drafting 6

EE 8210 Basic of Power Systems 7

EE 8212 Analogue electronics 6

EE 8213 Engineering electromagnetic 6

ME 8279 Engineering Thermodynamics 6

EE 8215 Electrical Engineering Materials 6

EE 8216 Basics of Computer systems engineering 6

CS 8204 Computer Programming 5

TOTAL 60

C. Bachelor of Electrical and Electronic Engineering (3rd Year)

Semester I

Core Courses

Code Title Credit

EE 8301 Industrial Practical Training II 10

EE 8302 DC Electrical Machines 8

EE 8303 Modelling in Control Systems Engineering 8

EE 8211 Electrical Power Transmission and Distribution 8

EE 8305 Basics of Power Electronics 8

EE 8306 Fundamental of Digital Electronics 7

IT 8317 Object Oriented Programming 6

EE 8308 Basics of Analogue Telecommunication 5

TOTAL 60

Semester II

Core Courses

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Code Title Credit

EE 8309 Environmental Engineering Management 6

EE 8310 3 – Phase AC Machines 7

EE 8304 Electrical power systems Analysis 7

EE 8311 Control System Engineering Analysis 7

EE 8312 Microprocessor 6

EE 8314 Power Electronics Circuits 7

EE 8315 Digital electronics 7

EE 8316 Basics of Digital Telecommunication 5

EE 8317 Electrical Safety and Maintenance 6

EE 8318 Research Methodology 6

TOTAL 64

D. Bachelor in Electrical and Electronic Engineering (4th Year)

Semester I

Core Courses

Code Title Credit

EE 8401 Industrial Practical Training III 10

EE 8402 3 – Phase AC Synchronous Machines 8

EE 8403 Digital Control System Engineering 9

EE 8404 Programmable Logic Controller 6

EE 8315 Electrical Power Systems Dynamics 9

EE 8406 Power Electronics Converters 6

EE 8407 Engineering Operation Management 6

EE 8408 Project I 12

TOTAL 66

Semester II

Core Courses

Code Title Credit

EE 8409 Laws for Engineers 6

EE 8410 Electrical Drives 9

EE 8411 Digital systems engineering 6

EE 8412 High voltage Engineering 8

EE 8413 Engineering Economic 6

EE 8414 Switchgear and Protection Engineering 8

EE 8415 Renewable Energy Technologies (RE) 6

EE 8416 Project II 12

TOTAL 61

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8.1.4 THE DEPARTMENT OF MECHANICAL AND INDUSTRIAL ENGINEERING

Programmes

The Department offers five (5) Programmes:

- a) Diploma in Mechanical Engineering
- b) Diploma in Mechanical Engineering with Industrial Safety and Occupational Health
- c) Diploma in Mechatronics Engineering
- d) Diploma in Automotive and Auto-electrical Engineering
- e) Bachelor of Mechanical Engineering

8.1.4.1 LABORATORIES AND WORKSHOPS

- i. Mechatronics and safety Laboratory
- ii. Energy Laboratory
- iii. Machine Shop
- iv. Welding Workshop
- v. Automotive Workshop
- vi. Foundry Workshop
- vii. Forging Workshop
- viii. Materials Laboratory

8.1.4.2 LIST OF STAFF

(Head of Department)

Dr. Wambura M. Mwita PhD Mech. Eng. (UJ-SA), MSc Mech. Eng. (CPUT-SA), BSc Mech. Eng. (UDSM).

Lecturers

Dr. Wambura M. Mwita PhD Mech. Eng. (UJ-SA), MSc Mech. Eng. (CPUT-SA), BSc Mech. Eng. (UDSM).

Dr. Joel Mbwiga PhD Renewable Energy (UDSM), MSc Renewable Energy Eng. (UDSM) BSc Electro. Mech Eng. (UDSM)

Dr. Masoud Kamoleka PhD mech Eng. (HEU-China), MSc Renewable. Energy Eng. (UDSM),

BSc. Electro-Mech. Eng. (UDSM).

Assistant Lecturers

Mr. Lekamere N. Kariwa MSc. Renewable Energy Eng. (UDSM), B. Eng. Mechanical (DIT),

Diploma in Technical Education (Kleruu), FTC Automotive Eng. (TCA).

Mr. Emmanuel A. Mwangomo MSc Renewable Energy Eng. (UDSM), BSc Mech. Eng. (UDSM)

Diploma in Ed. (Kleruu).

Mr. Vicent Marwa* MSc Energy Eng. (UDSM), PGDE Mech, ADE Mech. (MIST), FTC Auto. Eng. (TCA).

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Mr. Ballo Mwendapole* MSc Energy Eng. (UDSM), PGDE Mech. (UDSM), ADE Mech. (MIST),

FTC Mech. Eng. (MTC).

Mr. Silla W. Livifile* MSc. Prod Eng. (UDSM), PGDE Mech. (UDSM), ADE Mech. (MIST), FTC. Mech. Eng. (TCA).

Mr. Yasini S. Nalinga*. MSc. Energy Eng. (NM-AIST), B. Eng. Mechanical (MIST), FTC Mechanical Eng. (MTC).

Mr. Philemon X. Mutabilwa* MSc Mech. Eng. (UB-Botswana), B. Eng. Mechanical (DIT), FTC Mech.

(DIT) *

Tutorial Assistants

Mr. Israel Komba MSc. Prod Eng. (UDSM), PGDE Mech. (UDSM), ADE Mech. (DIT), DTE Mech. (Kleruu), FTC Mech. Eng. (DIT).

Mr. Jonathan Lunyungu PGDE-Mechanical (UDSM), ADE Mech. (MTC), FTC Mech. (MTC).

Mr. Yeremia D. Gwau B.Eng. Mechanical (MUST), DTE (Kleruu), FTC. Mech. Eng. (TCA).

Mr. Erasto S. Hebuka. B.Eng. Mechanical. (DIT), DTE (Kleruu), FTC Mechanical (DTC).

Mr. Paulo S. Zebedayo* B.Eng. Mechanical (MUST), Diploma in Mech. Eng. (MUST).

Mr. Sikudhan L. Mpuhus* B.Eng. Mechanical. (MUST), Diploma in Mech. Eng. (MIST).

Mr. Shanel B. Mbawala B. Auto. Eng. (NIT).

Mr. Paulo K. Shayo* BEng Mechanical (MUST).

Mr. Gabriel Leonard Swilla BEng Mechanical (MUST).

Mr. Ramadhan A.Swai BEng Mechanical (MUST).

Mr. Musa Daud* BEng Mechanical (MUST).

Mr. Nsajigwa L. Mbamba BEng Mechanical (MUST), Diploma in Mechanical Eng. (MUST).

Instructors

Dr. Petro D Ndalila PhD, Oil-Gas, Storage and Transportation Eng. China University of Petroleum (EAST CHINA), MSc Renewable Energy (UDSM), BSc Chemical and Process Eng. (UDSM).

Mr. Evans N. Tweve MSc. Mech.Eng. (UDSM), PGDE-Mechanical. (UDSM), ADE.Mechanical. (MIST), FTC. Mechanical. Eng. (MTC)

Mr. Seuri S. Kilakoi* MSc Energy (CIMAV, Mexico), B.Eng. Mechanical (DIT), FTC Mechanical Eng. (MTC).
 Mr. Samwel E. Mwasanjobe B. Eng. Mechanical (MUST), Dip. Marine. Eng. (Mbegani).
 Mr. Michael T. Mwakyonya Master in Sustainable Energy (DIT), ADAE-Automotive Engineering (NIT), DAE-Automotive Eng. (NIT).
 Mr. Emmanuel S. Sakalani B.Eng. Mechanical (MUST) Diploma in Mechanical Eng. (ATC).
 Mr. Kassim S. Fakhi B.Eng. Mechanical (MUST) Diploma (Edu)-(Morogoro TTC).
 Laboratory Engineer
 Mr. Hamisi M. Egari BEng Mechanical (MUST), Diploma in Automotive Eng. (ATC).
 Artisans
 Ms. PalestinaNdelwa Trade Test Grade II in welding and Metal Fabrication (NVTD - Dar).
 Mr. Nelson Tawete Motor Vehicle Mechanics Level III-VETA –Morogoro.

Office Secretary

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Magreth Mwakapala Diploma in Secretary

*On study leave

8.1.4.3 PROGRAMMES COURSES

DIPOMA IN MECHANICAL ENGINEERING

A. Diploma in Mechanical Engineering (1st Year)

Semester I

Code Name Credit

ME 6116

ME 6117

ME 6118

ME 6119

IT 6117

HS 6116

HS 6117

NS 6139

MS 6123

Engineering Drawing I

Engineering Materials I

Automotive Technology I

Manufacturing Engineering I

Fundamental Computer Application

Elements of Development Studies

Communication Skills I

Applied Physics I

Applied Mathematics I

8

7
8
9
6
6
6
6
6

TOTAL 62

Semester II

Code Name Credit

ME 6120

ME 6121

ME 6122

ME 6123

ME 6124

CS 6124

BM 6122

NS 6144

MS 6124

Engineering Drawing II

Engineering Materials II

Automotive Technology II

Manufacturing Engineering II

Mechanical Engineering Science I

Computer programming

Entrepreneurship

Applied Physics II

Applied Mathematics II

9
7
9
9
6
6
6
6
6

TOTAL 64

B. Diploma in Mechanical Engineering (2nd Year)

Semester 1

Code Name Credit

ME 6201

ME 6202

ME 6203
ME 6204
ME 6205
ME 6206
ME 6207
MS 6222
ME 6208
Computer Aided Drafting I
Strength of Materials
Automotive Technology III
Manufacturing Engineering III
Thermodynamics
Mechanical Engineering Science II
Engineering Measurement and Control
Applied Mathematics III
Industrial Practical Training I

8

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6

6

10

TOTAL 66

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79

Semester II

Code Name Credit

ME 6209

ME 6210

ME 6211

ME 6212

ME 6213

ME 6214

EE 6270

EE 6271

MS 6223

Computer Aided Drafting II

Auto Electrical Systems

Manufacturing Engineering IV

Machine Elements and Design I

Fluids Mechanics

Fundamental of Programmable Logic Controllers
Electrical Engineering Science
Basic Electronics
Applied Mathematics IV

9

9

9

6

6

7

6

6

6

TOTAL 64

C. Diploma in Mechanical Engineering (3rd Year)

Semester I

Code Name Credit

ME 6301

ME 6302

ME 6303

ME 6304

ME 6305

ME 6306

MS 6322

ME 6307

ME 6308

Machine Elements and Design II

Power plant I

Refrigeration

Environment Management

MechatronicsTechnology

Fundamental of Research Methodology

Boolean Algebra and Statistics

Mechanical Project I

Industrial Practical Training II

6

6

9

6

7

6

6

10

10

TOTAL 66

Semester II

Code Name Credit

ME 6309

ME 6310

ME 6311

ME 6312

ME 6313

ME 6314

ME 6315

ME 6316

ME 6317

Machine Elements and Design III

Power plant II

Air Conditioning

Computer Based Manufacturing

Workshop Management

Industrial Safety and Maintenance

Hydraulic and Pneumatic systems

Quality Control and Costing Management

Mechanical Project II

6

6

9

9

6

6

7

7

10

TOTAL 66

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DIPLOMA IN MECHANICAL ENGINEERING WITH INDUSTRIAL SAFETY AND
OCCUPATIONAL HEALTH

A. Diploma in Mechanical Engineering with Industrial Safety and Occupational Health
(1st Year)

Semester I

Code Name Credit

ME 6116

ME 6117

ME 6118

ME 6119

IT 6117

HS 6116
HS 6117
NS 6139
MS 6123
Engineering Drawing I
Engineering Materials I
Automotive Technology I
Manufacturing Engineering I
Fundamental Computer Application
Elements of Development Studies
Communication Skills I
Applied Physics I
Applied Mathematics I

8

7

8

9

6

6

6

6

6

TOTAL 62

Semester II

Code Name Credit

ME 6120

ME 6121

ME 6122

ME 6123

ME 6124

CS 6124

BM 6122

NS 6144

MS 6124

Engineering Drawing II

Engineering Materials II

Automotive Technology II

Manufacturing Engineering II

Mechanical Engineering Science I

Computer programming

Entrepreneurship

Applied Physics II

Applied Mathematics II

9

7
9
9
6
6
6
6
6

TOTAL 64

B. Diploma in Mechanical Engineering with Industrial Safety and Occupational Health
(2nd Year)

Semester 1

Code Name Credit

ME 6201

ME 6202

ME 6203

ME 6204

ME 6205

ME 6206

ME 6207

MS 6222

ME 6208

Computer Aided Drafting I

Strength of Materials

Automotive Technology III

Manufacturing Engineering III

Thermodynamics

Mechanical Engineering Science II

Engineering Measurement and Control

Applied Mathematics III

Industrial Practical Training I

8

6

9

9

6

6

6

6

10

TOTAL 66

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81

Semester II

Code Name Credit

ME 6209

ME 6210

ME 6211

ME 6212

ME 6213

ME 6214

EE 6270

EE 6271

MS 6223

Computer Aided Drafting II

Auto Electrical Systems

Manufacturing Engineering IV

Machine Elements and Design I

Fluids Mechanics

Fundamental of Programmable Logic Controllers

Electrical Engineering Science

Basic Electronics

Applied Mathematics IV

9

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9

6

6

7

6

6

6

TOTAL 64

C. Diploma in Mechanical Engineering with Industrial Safety and Occupational Health
(3rd Year)

Semester I

Code Name Credit

ME 6301

ME 6326

ME 6303

ME 6327

ME 6304

ME 6328

MS 6322

ME 6329

ME 6308

Machine Elements and Design II

Occupational Health and Industrial Hygiene

Refrigeration
Fire Engineering and Explosion Control
Environment Management
Industrial Safety and Occupational Health act
Boolean Algebra and Statistics
Safety Engineering Project I
Industrial Practical Training II

6

6

9

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6

6

6

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10

TOTAL 66

Semester II

Code Name Credit

ME 6309

ME 6330

ME 6311

ME 6331

ME 6313

ME 6332

ME 6333

ME 6334

MS 6335

Machine Elements and Design III

Safety at Workplace

Air Conditioning

Accident Prevention Techniques

Workshop Management

Safety in Material Handling

Plant Design and House Keeping

Safety in Mines

Safety Engineering Project II

6

6

9

6

6

6

6

6

10

TOTAL 61

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DIPLOMA IN MECHATRONICS ENGINEERING

A. Diploma in Mechatronics Engineering (1st Year)

Semester I

Code Name Credit

ME 6116

ME 6125

ME 6126

ME 6118

ME 6127

EE 6170

IT 6117

HS 6117

NS 6139

MS 6123

Engineering Drawing I

Fundamentals of Engineering Materials

Fundamentals of Engineering Mechanics

Automotive Technology I

Workshop Practice I

Fundamentals of Electrical Engineering

Fundamental of computer application

Communication skills

Applied Physics I

Applied Mathematics I

8

6

6

8

8

6

6

6

6

6

TOTAL 66

Semester II

Code Name Credit

ME 6120

ME 6122

ME 6128
EE 6171
BM 6122
EE 6172
CS 6124
NS 6144
MS 6124
Engineering Drawing II
Automotive Technology II
Workshop Practice II
Fundamentals of Electronics
Entrepreneurship
Analogy Electronics
Computer Programming I
Applied Physics II
Applied Mathematics II

9

9

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6

TOTAL 65

B. Diploma in Mechatronics Engineering (2nd Year)

Semester I

Code Name Credit

ME 6202

ME 6205

ME 6224

EE 6273

ME 6201

ME 6203

CS 6225

MS 6222

ME 6208

Strength of Materials

Thermodynamics

Engineering Measurement and instrumentation

Digital electronics

Computer Aided Design I

Automotive Technology III

Computer Programming II
Applied Mathematics III
Industrial Practical Training I

6

6

6

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8

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TOTAL 65

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Semester II

Code Name Credit

ME 6212

ME 6213

ME 6215

ME 6216

ME 6210

ME 6209

ME 6217

EE 6274

EE 6275

MS 6263

Machine elements and design I

Fluid mechanics

Programmable Logical Controller I

Electro-Pneumatic

Auto Electrical System

Computer Aided Design II

Transducers and Actuator Technology

Electrical Circuit Analysis

Industrial Electronics

Applied Mathematics IV

6

6

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6

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6

TOTAL 66

C. Diploma in Mechatronics Engineering (3rd Year)

Semester 1

Code Name Credit

ME 6304

ME 6306

ME 6319

ME 6303

ME 6320

MS 6322

ME 6321

ME 6322

ME 6308

Environmental Management

Fundamental of Research Methodology

Electro-Hydraulic Systems

Refrigeration

Automation and Robotics Technology

Boolean Algebra and Statistics

Programmable Logical Controller II

Mechatronics Project I

Industrial Practical Training II

6

6

6

9

6

6

6

10

10

TOTAL 65

Semester II

Code Name Credit

ME 6316

EE 6370

ME 6312

EE 6371

ME 6311

ME 6313

ME 6323

ME 6324
ME 6325
Quality Control and Costing Management
Power Electronics and Electrical Drives
Computer Based Manufacturing
Electrical Machines
Air Conditioning
Workshop Management
Maintenance of Mechatronics Systems
Control Systems
Mechatronics Project II

7

7

9

6

9

6

6

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10

TOTAL 66

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DIPOMA IN AUTOMOTIVE AND AUTOELECTRICAL ENGINEERING

A. Diploma in Automotive and Auto electrical Engineering (1st Year)

Semester I

Code Name Credit

ME 6116

ME 6117

ME 6118

ME 6119

IT 6117

HS 6116

HS 6117

NS 6139

MS 6123

Engineering Drawing I

Engineering Materials I

Automotive Technology I

Manufacturing Engineering I

Fundamental Computer Application

Elements of Development Studies

Communication Skills I

Applied Physics I

Applied Mathematics I

8

7

8

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6

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6

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6

TOTAL 62

Semester II

Code Name Credit

ME 6120

ME 6121

ME 6122

ME 6129

ME 6124

CS 6124

BM 6122

NS 6144

MS 6124

Engineering Drawing II

Engineering Materials II

Automotive Technology II

Workshop Practice

Mechanical Engineering Science I

Computer programming

Entrepreneurship

Applied Physics II

Applied Mathematics II

9

7

9

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6

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6

TOTAL 64

B. Diploma in Automotive and Auto electrical Engineering (2nd Year)

Semester I

Code Name Credit

ME 6201
ME 6202
ME 6206
ME 6203
ME 6218
ME 6205
ME 6207
MS 6222
ME 6208
Computer Aided Drafting I
Strength of Materials
Mechanical Engineering Science II
Automotive Technology III
Welding Technology
Thermodynamics
Engineering Measurement and Control
Applied Mathematics III
Industrial Practical Training 1

8

6

6

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9

6

6

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TOTAL 66

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85

Semester II

Code Name Credit

ME 6209

ME 6210

ME 6212

ME 6213

ME 6219

ME 6214

EE 6270

EE 6271

MS 6223

Computer Aided Drafting II I

Auto Electrical Systems

Machine Elements and Design I

Fluid Mechanics
Engine management
Fundamentals of Programmable Logical Controllers
Electrical Engineering Science
Basic Electronics
Applied Mathematics IV

9

9

6

6

9

7

6

6

6

TOTAL 64

C. Diploma in Automotive and Auto electrical Engineering (3rd Year)

Semester I

Code Name Credit

ME 6301

ME 6336

ME 6337

ME 6345

ME 6338

ME 6306

MS 6322

ME 6339

ME 6208

Machine Elements and Design II

Automotive Auxiliary Systems

Automotive Body Works

Automotive Environmental Management

Vehicle Inspection and Maintenance

Fundamentals of Research Methodology

Boolean Algebra and Statistics

Automotive Project I

Industrial Practical Training II

6

7

8

6

7

6

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TOTAL 66

Semester II

Code Name Credit

ME 6309

ME 6340

ME 6341

ME 6342

ME 6343

ME 6313

ME 6314

ME 6315

MS 6344

Machine Elements and Design III

Road Transport Operations

Heavy Duty Vehicles

Auto-electrical Systems Diagnosis

Automotive Heating Ventilation and Air Conditioning Systems

Workshop Management

Industrial Safety and Maintenance

Hydraulic and Pneumatic systems

Automotive Project II

6

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7

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TOTAL 63

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BACHELOR OF MECHANICAL ENGINEERING

A. Bachelor of Mechanical Engineering (1st Year)

Semester 1

Code Name Credits

ME8101 Engineering Drawing I 7

ME8102 Engineering Materials 6

ME 8103 Strength of Materials I 6

ME8104 Manufacturing Engineering I 8

ME 8105 Automotive Engineering I 8

BM 8108 Entrepreneurship 6
IT 8116 Computer Applications 7
MS 8117 Engineering Mathematics I 6
HS 8101 Communication Skills 6
DS 8101 Development Studies 6
TOTAL 66

Semester II

Code Name Credits

ME8107 Engineering Drawing II 9
ME8108 Machine Elements and Design I 6
ME8109 Manufacturing Engineering II 10
ME8110 Strength of Materials II 6
ME 8111 Automotive Engineering II 10
ME 8112 Power Production 6
DS 8108 Development Perspectives 6
ME 8106 Environmental Engineering 6
MS 8102 Engineering Mathematics II 6
TOTAL 65

B. Bachelor of Mechanical Engineering (2nd Year)

Semester 1

Code Name Credits

ME8201 Computer Aided Drafting I 9
ME8202 Mechanics of Machines 6
ME8203 Engineering Thermodynamics 7
ME8204 Machine Elements and Design II 6
ME 8209 Strength of Materials III 6
ME8205 Manufacturing Engineering III 10
EE 8240 Fundamental of Electrical Engineering 6
MS8203 Engineering Mathematics III 6
ME8206 Industrial Practical Training I 10
TOTAL 66

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Semester II

Code Name Credits

ME 8207 Computer Aided Drafting II 9
ME 8208 Machine Elements and Design III 6
ME 8210 Materials Technology 7
ME 8211 Fluid Mechanics 6
ME 8212 Mechatronics 6
ME 8213 Industrial Management 6
EE 8241 Electrical Machines I 7
CS 8200 Computer Programming 7
IT 8217 Computer Networking 6

MS 8217 Statistics and Numerical analysis 6

TOTAL 66

C. Bachelor of Mechanical Engineering (3rd Year)

Semester I

Code Name Credits

ME 8301 Systems Reliability and Plant Maintenance 6

ME 8302 Dynamics of Mechanical Structures 6

ME 8303 Engineering Design 6

ME 8304 Industrial Energy Management 6

ME 8305 Metal cutting and Machines Processes 8

ME 8306 Research Methodology 7

EE 8340 Electrical Machines II 7

ME 8307 Mini Project I 10

ME 8308 Industrial Practical Training II 10

TOTAL 66

Semester II

Code Name Credits

ME 8309 Renewable Energy Technologies 6

ME 8310 Industrial Automation 7

ME 8311 Engineering Economics 8

ME 8312 Control Systems Engineering 6

ME 8313 Computer Aided Engineering (CAE) 8

ME 8314 Engineering Operations Management 6

ME 8315 Heat Transfer 6

CS 8315 Data Structure and Algorithms 6

ME 8316 Mini Project II 10

TOTAL 63

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D. Bachelor of Mechanical Engineering (4th Year)

Semester 1

Code Name Credits

ME 8401 Fluid Power and Control 6

ME 8402 Power Plants 6

ME 8403 Material Handling Design 6

ME 8404 Turbo Machinery 6

ME 8405 Production Engineering 7

ME 8406 Refrigeration System 8

CS 8406 Object Oriented Programming 7

ME 8407 Senior Project I 10

ME 8408 Industrial Practical Training III 10

TOTAL 66

Semester II

Code Name Credits

ME 8409 Quality Assurance and Control 6
ME 8410 Engineering Ethics and Professional Conduct 6
ME 8411 Automation and Robotics 7
ME 8412 Engine Design Technology 6
ME 8413 Foundry Technology 9
ME 8414 Air Conditioning System 8
ME 8415 Computer Aided Manufacturing (CAM) 7
ME 8416 Industrial Supervisor Skill and leadership 6
ME 8417 Senior Project II 10

TOTAL 65

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8.1.5 DEPARTMENT OF CHEMICAL PROCESSING AND ENVIRONMENTAL ENGINEERING Programme

The Department is in the process of offering Bachelor degree programmes.

8.1.5.1 LIST OF STAFF

(Head of Department)

Lecturers:

Mr. Omari Shegwando* MSc. Water Resources Management (ARU), BSc. Civil Eng.
(UDSM)

Mr. Emmanuel Mwangomo MSc Renewable Energy. Eng (UDSM), BSc Energy Eng.,
(UDSM), Dipl Ed.

(Kleruu)

Instructor

Dr. Dickson P. Ndalila PhD in Oil-Gas, Storage and Transportation Eng, Chuna
University of Petroleum

(EAST CHINA), MSc. Energy Eng. (UDSM), BSc. Chemical Proc. Eng.
(UDSM).

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8.2 COLLEGE OF ARCHITECTURE AND CONSTRUCTION TECHNOLOGY (CoACT)

8.2.1 DEPARTMENT OF ARCHITECTURE AND ART DESIGN

Programmes

The department offers three (3) programmes:

- i. Diploma in Architecture
- ii. Bachelor of Technology in Architecture
- iii. Bachelor of Technology in Landscape Architecture

8.2.1.1 LIST OF STAFF

(Head of Department)

Justine M. Katabaro M. Eng. In Arch. (Chong Qing University. – China), B. Arch. (Tianjin
University. – China),

Lecturers

Dr. Buberwa M. Tibesigwa PhD Eng. In Architecture (Chongqing University, China),
M.Arch. (HIT

China), B. Arch (University of Dar es Salaam)

Assistant lecturers

Mr. Kassim A. Choga M. Arch. (Ardhi Univ.), PGD Arch (Ardhi Univ.) AD Arch.
(ArdhiInst).

Mr. Emmanuel J. Liombo, M.Arch. (Univ. of Nairobi – Kenya), B.Arch. (UDSM).

Mr. Israel J. Mayage Msc. Housing (ARU), B. Arch (UDSM)

*Mr. Mbasa Segelela Msc. Housing (ARU), B. Arch (UDSM)

Mr. Justine Katabaro M. Eng. In Arch. (Chong Qing Univ. – China), B. Arch. (Tianjin
Univ. –

China)

*Rosemary E. Kavishe MSc. Hydrology and Water Resources Engineering (Nelson
Mandela

African Institute of Science and Technology, BSc. Civil (ST. JOSEPH
UNIVERSITY),

Mr. Oscar J. Shiganza MSc. Civil Engineering (MUST), BSc. Civil (ST. JOSEPH
UNIVERSITY)

Mr. Juma N. Julius MBA in Marketing (UoI), B. Arch (UDSM), Dip. Ed (KLERRUU)

*Mr. Benjamin M. John MSc. Housing (Ardhi University), B. Arch (UDSM)

*Mr. Arnold K. Kashula - MSc. Housing (Ardhi University), B. Arch (UDSM)

*Mr. Benson V. Karumuna M. Eng. Arch. (Chongqing University), B. Arch (ARU)

*Mr. Kamugisha J. Kajumulo MSc. Construction Management (UDSM), B. Arch (UDSM)

Mr. Shija P. Ng'wandu MSc. Eng. In Architecture (Chongqing University), B. Tech-Arch
(MUST)

Mr. Ibrahim M. Charles B. Arch (UDSM), MSc. Construction Management (ARU)

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Mr. Blasius K. Venance M. Arch in Urban Design (Jadavpur University, India) B. Tech-
Arch

(MUST), Dip. Arch (MIST)

Nelson Boniphace Maseswa M. Eng. Civil Eng. (Hohai University, China), B.Tech-Arch
(MUST),

Tutorial Assistants

*Mr. Lameck G. Mollel B. Arch. (ARU)

*Mr. Gasper Massawe B. Tech. Arch. (MIST), Dipl. Arch. (MIST).

Mr. Marco D. Nassary B. Tech-Arch (MIST)

*Mr. Moses L. Kivuyo B. Tech-Arch (MUST), Dip. Arch (MIST)

*Mr. Godfrey B. Sosthenes B. Tech-Arch (MUST), Dip. Civil (MIST)

Ms. Emmayana Calist Auguli BSc. In Landscape Architecture

Mr. Samwel Gidion Mnazi BSc. In Landscape Architecture

Ms. Jaqueline Tarimo B.Tech-Arch (MUST), Dip. In Architecture

*Mr. Yakobo Rehani B.Tech-Arch (MUST), FTC-Arch. Engineering (MTC)

Instructors

Mr. Gabriel N. Nicomedi MS. Eng. In Landscape Architecture Engineering (Chongqing University,

China), BSc. Landscape Arch (ARU)

*Mr. Elvis F. Lyimo BSc. Landscape Arch (ARU)

Mr. Jonas.E. Mwamasage BTA (MUST), Dip-Arch (MUST)

Technicians

Mr. Christopher J. Almasi FTC-Arch (MTC)

*On study leave

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8.2.1.2 DIPLOMA COURSES

DIPLOMA IN ARCHITECTURE

A. Diploma in Architecture (1st Year)

Semester I

Core Courses

Code Name Credit

AA 6101

AA 6102

AA 6103

AA 6105

AA 6106

HS 6116

MS 6126

CS 6102

HS 6117

NS 6138

Architectural Draughting I

Structural Mechanics

Building Construction &Technology I

Building Services I

Building Materials I

Elements of Development studies

Advanced Mathematics I

Basic Computer Application I

Communication Skills

Advanced Physics I

12

6

6

6

6

10

6

6

6

6

TOTAL 64

Semester II

Core Courses

Code Name Credit

AA 6107

AA 6108

AA 6109

AA 6110

AA 6104

MS 6221

CS 6202

NS 6143

AA 6111

Architectural Draughting II

Basics of Structural Design I

Building Construction and Technology II

History & Theory of Architecture I

AutoCAD

Advanced Mathematics II

Basic Computer Application II

Advanced Physics II

IPT I

12

6

6

8

6

6

6

6

10

TOTAL 66

B. Diploma in Architecture (2nd Year)

Semester I

Core Courses

Code Name Credits

AA 6201

AA 6202

AA 6203

AA 6204

AA 6205

AA 6206

AA 6207
ST 6223
Architectural Design I
Basics of Structural Design II
Building construction & Technology III
Building Services II
Geometrics I
Building Materials II
ArchiCAD
Advanced Mathematics III

12

8

8

6

6

6

6

6

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93

NS 6222 Advanced Physics III 6

TOTAL 64

Semester II

Fundamental Courses

Code Name Credits

AA 6208

AA 6209

AA 6210

AA 6211

NS 6224

MS 6228

AA 6212

Architectural Design II

Basics of Structural Design III

History & Theory of Architecture II

Geometrics II

Advanced Physics IV

Advanced Mathematics IV

IPT II

14

8

8

8

6

6

10

TOTAL 60

C. Diploma in Architecture (3rd Year)

Semester I

Core Courses

Code Name Credits

AA 6301

AA 6302

AA 6303

AA 6304

AA 6305

AA 6306

AA 6307

BM 6122

Basics of Structural Design III

Building Construction & Technology IV

Cost Estimates & Tendering

Project I

Professional Practice I

Climatic Design

Building services III

Entrepreneurship

8

8

8

12

6

8

8

8

TOTAL 66

Semester II

Fundamental Courses

Code Name Credits

AA 6308

AA 6309

AA 6310

AA 6311

AA 6312

AA 6313

Project II

Thermal Design & Sonic Environment

Professional Practice II

Architectural Conservation
Building Information Modelling
Urban & Housing Development

14

10

8

10

10

8

TOTAL 60

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BACHELOR OF TECHNOLOGY IN ARCHITECTURE

A. Bachelor of Technology in Architecture (1st Year)

Semester 1

Code Name Credits

HS 8101 Communication Skills 6

BM 8108 Development Studies 6

MS 8125 Calculus, Statistics and Coordinate geometry 6

BM 8108 Entrepreneurship 6

AA 8101 Architectural Draughting I 10

AA 8102 Building Construction I 6

AA 8103 Basics of Architectural Design 6

AA 8104 History of Architecture I 6

AA 8105 Building Materials I 6

AA 8106 Mini- Industrial Practical Training I 2

TOTAL 60

Semester II

Code Name Credits

DS 8108 Development perspective 6

CS8107 Computer Application 6

AA 8107 Structural Mechanics 6

AA 8108 Architectural Draughting II 8

AA 8109 Building Construction II 8

AA 8110 Principles of Architectural Design 6

AA 8111 History of Architecture II 6

AA 8112 Building material II 6

AA 8113 Construction Surveying 6

AA 8114 Industrial Practical Training (IPT) 10

TOTAL 68

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95

B. Bachelor of Technology in Architecture (2nd Year)

Semester I

Core Courses

Code Name Credits

AA 8201

AA 8202

AA 8203

AA 8204

AA 8205

AA 8206

AA 8207

AA 8208

AA 8209

Design Studio I

Building construction and technology I

Material Science

Design Theories I

History of Architecture III

Services and Installations I

Building Structures I

Urban Design

Mini- Industrial Practical Training II

12

8

6

8

6

6

6

6

2

TOTAL 60

Semester II

Core Courses

Code Name Credits

AA 8210

AA 8211

AA 8212

AA 8213

AA 8214

AA 8215

AA 8216

AA 8217

AA 8218

Design Studio II

Building Construction and Technology II

Product Manufacture Technology I
Design Theories II
Building Renovation and Maintenance I
Services and Installation II
Building Structures II
Advanced CAD
Industrial Practical Training (IPT) II

10

6

6

6

6

6

6

6

10

TOTAL 62

C. Bachelor of Technology in Architecture (3rd Year)

Semester I

Core Courses

Code Name Credits

AA 8301

AA 8302

AA 8303

AA 8304

AA 8305

AA 8306

AA 8307

AA 8308

AA 8309

Project I

Professional Practice and Management I

Building Construction and Technology III

Simulation Technology I

Product Manufacture Technology II

Alternative Energy Design

Environmental control and sustainability I

Building Renovation and Maintenance II

Mini- Industrial Practical Training III

12

6

8

8

6

6

6

6

2

TOTAL 60

Semester II

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96

Core Courses

Code Name Credits

AA 8310

AA 8311

AA 8312

AA 8313

AA 8314

AA 8315

AA 8316

AA 8317

AA 8318

Project II

Construction Economics I

Professional Practice and Management II

Structural Analysis and Design I

Product Manufacture Technology III

Simulation technology II

Research Methods

Environmental control and sustainability II

Industrial Practical Training (IPT) III

10

6

6

6

6

6

6

6

10

Elective courses

AA 8319

AA 8320

AA 8321

Landscape technology

Conservation technology

Interior design

6

TOTAL 68

D. Bachelor of Technology in Architecture (4th Year)

Semester I

Core Courses

Code Name Credits

AA 8401

AA 8402

AA 8403

AA 8404

AA 8405

Pre-Design Research

Structural Analysis and Design II

Disaster Management

Services and Installations III

Professional Practice and Management III

28

8

8

8

8

TOTAL 60

Semester II

Core Courses

Code Name Credits

AA 8407 Comprehensive Design Project 60

TOTAL 60

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97

BACHELOR OF TECHNOLOGY IN LANDSCAPE ARCHITECTURE

A. Bachelor of Technology in Landscape Architecture (1st Year 1)

Semester 1

Code Name Credits

HS 8101 Communication Skills 9

BM 8108 Development Studies 6

MS 8125 Calculus, Statistics and Coordinate geometry 6

CS 884 Entrepreneurship 6

AA 8120 History of landscape Architecture I 6

AA8121 Landscape architectural draughting and Graphics I 15

AA8122 Landscape Materials I 6

AA8123 Landscape Construction I 8

AA8124 Mini Industrial Practical training I 2

TOTAL 64

Semester II

Code Name Credits

DS 8108 Development Perspective 6

AA 8125 Landscape construction surveying 8

AA 8126 Basics of Landscape Architectural Design 6

AA 8127 History of landscape Architecture II 6

AA 8128 Landscape Structural Design 6

AA 8129 Landscape Materials II 6

AA 8130 Landscape Architectural Draughting and Graphics II 12

AA 8131 Landscape Construction1I 8

AA 8132 Industrial Training, I 10

TOTAL 68

B. Bachelor of Technology in Landscape Architecture (2nd Year)

Semester I

Core Courses

Code Name Credits

AA 8220

AA 8221

AA 8222

AA 8223

AA 8224

AA 8225

AA 8226

AA 8227

AA 8228

Landscape Studio Design I

Landscape Construction III

History of Landscape Architecture

Landscape Materials III

Environmental Science

Botany and Plant Ecology, I

Lighting Design I

Sustainable Urban Landscape Infrastructure

Mini Industrial Practical Training II

12

8

6

8

6

6

6

6

2

TOTAL 60

Semester II

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98

Core Courses

Code Name Credits

AA8229

AA 8230

AA 8231

AA8232

AA 8233

AA8234

AA8235

AA8236

AA8237

Landscape Studio Design II

Landscape Construction IV

History and Theory of Landscape Architecture. I

Lighting Design II

Settlement Planning

Botany and Plant Ecology II

Landscape Services and Installations

Introduction to Planting Design

Industrial Training II

12

8

6

6

6

6

6

6

10

TOTAL 66

C. Bachelor of Technology in Landscape Architecture (3rd Year)

Semester I

Core Courses

Code Name Credits

AA 8320

AA 8321

AA 8322

AA8323

AA8324

AA 8325

AA8326

AA 8327

AA 8328
Landscape Studio Design III
Planting Design I
Contemporary Landscape Architecture
Principles of Landscape Architectural Design I
Simulation and Visualization Technology
History and Theory of Landscape Architecture. II
Urban Landscape Design
Housing and Settlement Planning.
Mini Industrial Practical Training III

12

8

6

8

8

6

6

6

2

TOTAL 62

Semester II

Core Courses

Code Name Credits

AA 8329

AA 8330

AA 8331

AA 8332

AA 8333

AA 8334

AA 8335

AA 8336

AA 8337

Landscape Studio Design IV

Planting Design II

Site Grading

Principles of Landscape Architectural Design II

Landscape Conservation and Management, I

Landscape Professional Practice and Management I

Landscape Construction Economics

Research Methodology

Industrial Training III

12

6

8

8

6

6

6

6

10

TOTAL 68

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99

D. Bachelor of Technology in Landscape Architecture (4th Year)

Semester I

Core Courses

Code Name Credits

AA8410

AA8411

AA 8412

AA 8413

Pre-design Research

Disaster Management

Landscape Conservation and Management II

Landscape Professional Practice and Management II

46

6

6

6

TOTAL 64

Semester II

Core Courses

Code Name Credits

AA8414 Comprehensive Design Project 60

TOTAL 60

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100

8.2.2 DEPARTMENT OF CONSTRUCTION MANAGEMENT AND TECHNOLOGY(CMT)

Programmes

The department is currently preparing the curricula for offering Diploma, Bachelor and Master's degree programmes.

8.2.2.1 LIST OF STAFF

(Head of Department)

Dr. Ramadhani S. Tekka PhD in Management Science and Engineering (Chongqing University), MEM (UDSM), BSc. in Geomatics (UDSM)

Senior Lecturers

Dr. Ramadhani S. Tekka PhD in Management Science and Engineering (Chongqing University), MEM (UDSM), BSc. in Geomatics (UDSM)

Dr. Yazidi H. Mwishwa, PhD (UDSM), MEM (UDSM), PGD (UDSM), ADE Civil Eng. (DIT), FTC Civil Eng. (TCA)

Lecturers

Dr. Juma A. Mpangule PhD in Civil Engineering and Construction Management (Technical University Dortmund, Germany), MSc. Const. mgt (ARU), BSc (BE) – UDSM

Mr. Japhary Shengeza* MSc. Construction Economics & Management (Ardhi University), Bsc, Building Economics (UDSM)

Assistant Lecturers

Mr. Moses Moyo* MSc. Mat. Sc. & Eng. Nelson Mandela (NMAIST), B. Sc. Civil (UDSM)

Mr. Baraka N. Budogo Msc. Urban Planning Management (Ardhi University), Bachelor Degree in Urban Development and Environmental Management - DUDEM (IRDP)

Mr. David A. Mwipopo Msc. Urban Planning Management (Ardhi University), BSc. Urban and Regional Planning URP (Ardhi University).

Mr. Evidence Machenje Msc. in Natural Resource Assessment and Management (University of Dar es Salaam), BSc. Urban and Regional Planning URP (Ardhi University).

Mr. Mwakiwone Philemon Master of Engineering in Urban and Rural Planning (Beijing Jiao Tong University), BSc. In Urban and Regional Planning (University of Dar es Salaam).

Tutorial Assistants

Mr. Hubert Bazil Kimboi* BSc. Building Economics (Ardhi University)

Mr. Melchior Vitalis Shukuru* BSc. in Geoinformatics (Ardhi University)

Ms. Adelina Kalinga * BSc. Building Economics (Ardhi University)

Ms. Edna William Machumu* BSc. in Geomatics (Ardhi University)

Mr. Hokins E. Moshi BSc. Civil Engineering (MUST), Ordinary Diploma in Civil Engineering (MUST)

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Mr. Elius P. Tibesigwa BSc. Building Economics (Ardhi University)

Mr. Aboubakary S. Kimiro BSc. Urban and Regional Planning-URP (Ardhi University)

*On study leave

**Secondment

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8.3 COLLEGE OF INFORMATION AND COMMUNICATION TECHNOLOGY (CoICT)

8.3.1 DEPARTMENT OF INFORMATION SYSTEMS AND TECHNOLOGY

Programmes

The Department offers two (2) Programme:

i. Diploma in Information and Communication Technology

ii. Bachelor of Science in Information and Communication Technology

8.3.1.1 LABORATORIES AND WORKSHOPS

- i. Computer Maintenance and Repair Laboratory
- ii. Two Computer Software Application Laboratories

8.3.1.2 LIST OF STAFF

Head of Department

Dr. Stanley Leonard PhD in Information Science and Engineering (MUST), MSc in Telecom

Eng. (UDOM), BEng (DIT), FTC (Comp. Eng) (DIT)

Lecturers

Dr. Twahir R. Kazema PhD in Information and Communication Science Engineering (Electronics

and Telecommunication)-NMAIST, MSc-in in Information and Communication Science Engineering-NMAIST, BEng in Electronics and Communication-St. Joseph University Tanzania.

Dr. Nabahani B. Hamadi PhD in Computer Science (BJUT - China), MSc. Automated systems

software (KHNURE-Ukraine), BSc. Computer science (KHNURE - Ukraine)

Dr. Phesto P. Namayala PhD in Computer Science (UDOM), MSc. in Comp (HU, UK), BSc with

Comp (UDSM)

Mr. Francis Ruambo* MSc. (HU, Sweden), BSc (SPSU, RUSSIA)

Assistant Lecturers

Mr. Justin A. Mwakatobe* MSc. (PWR, Poland)

Mr. Peter L. Kambosha MSc in IT and MGT (AVINASHILLINGAM, INDIA), BSc. Computer Science & Engg (SJUIT)

Ms. Magreth Dunstan Giga* MSc-Computer Science-University of Madras, BSc. in Computer Science

(St. Joseph University-Tanzania)

Mr. Tumain Mbinda MSc in Cybersecurity-National Forensic Science University (INDIA),

BSc. Computer Science (St. Joseph)

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Mr. Award Magemo MSc in Information Technology (MUST), BSc. Computer Science & Eng.

(St. Joseph University-Tanzania)

Tutorial Assistant

Mr. Edwin P. Nchia Advanced Diploma (IFM)

Mr. Daniel I. Bynite FTC (TCA); B. Eng. & Tech (DSTU) Russian Federation

Ms. Beatrice Mayowela* BSc. Computer Science & Eng (St. Joseph University-Tanzania)

*On study leave

8.3.1.3 PROGRAMME COURSES

DIPLOMA IN INFORMATION AND COMMUNICATION TECHNOLOGY

A. Diploma in Information and Communication Technology (1st Year)

Semester 1

Code Name Credits (Hrs)

MIS 6125 Business Mathematics 6

HS 6117 Communication Skills 6

Core Courses

Code Name Credits (Hrs)

IT 6116 Programming concept 9

CS 6117 Computer Systems Maintenance and Repair 9

IT 6117 Fundamental of ICT 6

IT 6118 Computer Networks 9

IT 6119 Basic Electronics 6

IT 6120 Multimedia Technologies 9

TOTAL 60

Semester II

Fundamental Courses

Code Name Credits (Hrs)

MIS 6126 Advanced Business Mathematics 6

BM 6122 Entrepreneurship 10

BM 6117 Basics of Management Principles 6

Core Courses

Code Name Credits (Hrs)

IT 6121 Introduction to Operating System 6

IT 6125 Computerized Accounting 6

IT 6122 Management Information Systems 6

IT 6123 Computer Networks Design and Management 10

IT 6124 Introduction to Database 10

TOTAL 60

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B. Diploma in Information and Communication Technology (2nd Year)

Semester 1

Semester II

C.

Diploma in Information and Communication Technology (3rdYear)

Semester 1

Core Courses

Code Name Credits (Hrs)

IT 6218 Introduction to Software Engineering 6

IT 6220 Data Structure and File Handling 9

IT 6221 Object-Oriented Programming JAVA 9

IT 6222 Multimedia Application Production 9

IT 6223 Microprocessor Technologies 6

IT 6224 E-commerce 6

IT 6225 Computer Architecture 6

IT 6219 Web Application Development 9

TOTAL 60

Core Courses

Code Name Credits (Hrs)

IT 6226 Business start-up and Management 6

IT 6212 Website Design and Hosting 9

IT 6213 Digital Electronics 6

IT 6214 Object Oriented Programming C++ 9

IT 6215 Management of Technology and Innovation 6

IT 6216 Systems Analysis and Design 6

IT 6217 Database Systems Design and Management 9

IT 6211 Industrial Practical Training I 10

TOTAL 61

Code Name Credits (Hrs)

IT 6311 E-marketing 6

IT 6315 Industrial Practical Training II 10

IT 6312 Mobile Application Development 9

IT 6317 Project I 12

IT 6313 IT Project Management 9

IT 6314 Open Source Software Development 9

IT 6316 Cyber Security 9

TOTAL 64

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Semester II

Code Name Credits (Hrs)

IT 6324 Business Management 6

Core Courses

IT 6318 Human Computer Interactions 9

IT 6319 Cloud Computing 9

IT 6320 Artificial Intelligence 9

IT 6321 Project II 12

IT 6322 Mobile Networks and Computing 9

IT 6323 Ethics and Laws of IT 6

TOTAL 60

BACHELOR OF INFORMATION AND COMMUNICATION TECHNOLOGY

A. Bachelor of Information and Communication Technology (1st Year)

Semester 1

Fundamental Courses

Code Name Credit (Hrs)

HS 8101 Communication Skills 6

DS 8101 Development Studies 6

MS 8121 Business Mathematics 6

Core Courses

Code Name Credits (Hrs)

IT 8101 Fundamentals of ICT 9

IT 8102 Management of Information System 9

IT 8103 Multimedia Technologies 9

IT 8104 Programming Concepts 9

CS 8106 Computer Maintenance and Repair 9

TOTAL 63

Semester II

Code Name Credits (Hrs)

IT 8106 Industrial Management 8

IT 8107 Python Programming 6

IT 8108 Database Design and Implementation 8

IT 8109 Professional Practice and IT laws 6

IT 8110 Computer Networks 8

IT 8111 Operating Systems 7

IT 8112 IT Technical Support 6

IT 8113 Object-Orientated Programming 8

IT 8114 Industrial Practical Training (IPT) I 10

TOTAL 67

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B. Bachelor of Information and Communication Technology (2nd Year)

Semester 1

Fundamental Courses

Code Name Credit (Hrs)

IT 8214 Financial Management 6

Core Courses

Code Name Credits (Hrs)

IT 8201 Computer System Administration and Network Management 9

IT 8202 Problem Solving 8

IT 8203 Mobile Application Development 9

IT 8204 Software Engineering 8

IT 8205 Applied Networks 8

IT 8206 System Analysis and Design 9

IT 8207 Management of Technology and Innovation 6

TOTAL 63

Semester II

Fundamental Courses

Code Name Credit (Hrs)

T 8215 Technical and Business Writing 6

BPP 845 Research Methodology 6

BM 8108 Entrepreneurship 6

Core Courses

Code Name Credit (Hrs)

IT 8208 Human Computer Interaction 8
IT 8209 System Integration and Deployment 8
IT 8210 Data Mining and Warehousing 8
IT 8211 IT Project Management 8
IT 8212 Animation Development 9
IT 8213 Industrial Practical Training (IPT) II 10
TOTAL 69

C. Bachelor of Information and Communication Technology (3rd Year)

Semester 1

Core Courses

Code Name Credits (Hrs)

IT 8301 Cyber Security and Network Management 10
IT 8302 Web Development 10
IT 8303 Open-Source Software Development 10
IT 8304 JAVA Programming 10
IT 8305 Artificial Intelligence 10
IT 8306 Final Year Project 1 12
TOTAL 62

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Semester II

Core Courses

Code Name Credits (Hrs)

IT 8307 Mobile Networks and Computing 10
IT 8308 Cloud Computing 10
IT 8309 E-Commerce 10
IT 8310 Business Intelligence and Analytics 10
IT 8311 Internet of Things (IoT) 10
IT 8312 Final Year Project 2 12
TOTAL 62

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8.3.2 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Programmes

The Department offers five (5) Programmes:

- i. Diploma in Computer Science
- ii. Diploma in Computer Engineering
- iii. Bachelor of Computer Engineering
- iv. Bachelor of Computer Science
- v. Bachelor of Engineering in Data Science

8.3.2.1 LABORATORIES AND WORKSHOPS

- i. Computer Maintenance and Repair Laboratory
- ii. Computer Network laboratory
- iii. Two Computer Software Application Laboratories

8.3.2.2 LIST OF STAFF

(Head of Department)

Dr. Mrindoko R Nicholas Ph.D ICT (OUT), MSc. EEIT (UDSM), B. Eng (DIT), FTC (MIST)

Lecturers

Dr. Mrindoko R Nicholas Ph.D ICT (OUT), MSc. EEIT (UDSM), B. Eng (DIT), FTC (MIST)

Dr. Stanley Leonard Ph.D ISE (MUST), MSc. TE (UDOM), BSc Comp. Eng. (DIT)

Dr. Sadiki L. Kusyama PhD in ICSE (NM-AIST), MSc.ICSE (NM-AIST), B.Eng (DIT)

Assistant Lecturers

Mr. Godfrey Kayombo MSc. TE (UDOM), BSc Comp. Eng. (DIT)

Mr. Aziz Singa MSc (UDOM), BSc Comp. Eng. (SJUIT)

Mr. Bestone Lufyagila MSc (NM-AIST, Tanzania), BSc. Eng (UDSM) *

Mr. Ibrahim Frank M.Eng Comp S.c & Tech (Hubei University of Sc &Tech)

Mr. Bally S. Omary MSc IT (UDOM), B.Eng (DIT), FTC (DIT) *

Ms. Betty J. Singano MSc. Comp Sc (Kerala University), B. Tech IT (St Joseph)

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Tutorial Assistants

Mr. Richard C. Rajabu BSc. (UDSM)*

Mr. Lusungu P. Wangilisasi BSc.Eng (UDSM)*

Ms. Rahel A Mtali B. Eng (MUST) *

Mr. Emmanuel Nimrod Malissa BSc. in Computer Engineering (MUST)

Ms. Namsemba Rabieli Mzava BSc. in Multimedia Technology (UDOM)

Mr. Robert Joseph Mtowe BSc. in Multimedia Technology (UDOM)

Mr. David Mwakifuna BSc. in Multimedia Technology (UDOM)

Senior Instructors

Mr. Noel Y. Chintelele MSc. TE (UDOM), B. Eng (DIT)*

Mr. Pascal J. Yamakil MSc. EEIT (UDSM), Advanced Diploma (IAA) *

Mr. Shadrack D. Njugunya MSc. Comp (UDOM), B. Eng (DIT), FTC (DIT)

Instructors

Mr. Liberatus M. Sago B.Sc. Eng (UDSM) *

Mr. Enlai N. Watson B. Eng (DIT), FTC (DIT)

Mr. Riziki Pangahela BSc IT (OUT)

Technician

Mr. George R. Kitula B.Eng (MUST)

Mr. Anthony L. Chaula Diploma. ICT (MUST)

*On study leave

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8.3.2.3 PROGRAMME COURSES

DIPLOMA IN COMPUTER SCIENCE

A. Diploma in Computer Science (1st year)

Semester I

Code Name Credit

Core Courses

HS 6117

CS 6132

CS 6133

CS 6134

CS 6135

CS 6136

Communication Skills

Elementary Mathematics

Computer Fundamentals

Computer Application

Programming Concept

Basic Electronics

6

10

10

10

12

10

TOTAL 58

Semester II

Core Courses

Code Name Credit

CS 6137

CS 6138

CS 6139

CS 6140

CS 6141

CS 6142

Basics of Computer Maintenance and Troubleshooting

Web application

Computer Networks Fundamentals.

Basics of Mobile Application

Multimedia Technologies

Industrial practical Training

12

10

12

08

08

12

TOTAL 62

B. Diploma in Computer Science (2nd year)

Semester I

Code Name Credit

Core Courses

CS 6215 Management of Technology and Innovation 06

CS 6252 Operating System 10

CS 6253 Computer Networks 12

CS 6254

CS 6255

CS 6256

Computer Maintenance and Troubleshooting

Object Oriented Programming

Web Technology

12

12

10

TOTAL 62

Semester II

Core Courses

Code Name Credit

CS 6257

CS 6258

CS 6259

CS 6260

CS 6261

CS 6262

Java Programming

Computer Architecture

Software Engineering

Introduction to Machine Learning

Database Management System

Industrial Practical Training

10

10

08

08

10

12

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TOTAL 58

C. Diploma in Computer Science (3rd Year)

Semester I

Code Name Credit

Core Courses

CS 6371
CS 6372
CS 6373
CS 6374
CS 6375
CS 6376
Analysis and Design Algorithms
Research Methodology
Information System Management
Entrepreneurship and Development
IT Security
Project I
12
10
10
10
10
12
TOTAL 64
Semester II
Code Name Credit
Core Courses
BM 6117
CS 6378
CS 6379
CS 6380
CS 6381
Basic of Management Principles
E-Commerce
Data Structure
Bioinformatics
Project II
08
12
12
12
12
TOTAL 56
DIPLOMA IN COMPUTER ENGINEERING
A. Diploma in Computer Engineering (1st Year)
Semester 1
Code Name Credit
MS 6132
CS 6116

NS 6141
HS 6117
EE 6116
ME 6170
CS 6117
CS 618
CS 6119
CS 6120
CS 6121
Trigonometry
Ethics in Computer Engineering
Engineering Mechanics
Communication Skills
Fundamental of Electrical Engineering
Workshop Technology
Computer Systems Maintenance and repair
Computer Application Software
Computer Networks
Basics Electronics
Computer Architecture
06
06
06
06
06
06
06
06
06
06
06
06
TOTAL 66
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112
Semester II
Code Name Credit
MS 6131
EE 6120
NS 6137
ME 6270
CS 6122
CS 6123
CS 6124
CS 6125

CS 6126
CS 6127
Calculus
Fundamental of Electrical Technology
Thermodynamics and Electromagnetism
Technical Drawing
Mobile Computing
Field Practical Training I
Computer Programming
Computer Network Design and Management
Computer Peripheral Maintenance and Repair
Introduction to Database

06

06

06

06

06

10

06

06

08

06

TOTAL 66

B. Diploma in Computer Engineering (2nd Year)

Semester I

Code Name Credit

MS 6226

CS 6201

CS 6209

CS 6202

CS 6203

CS 6204

CS 6205

CS 6206

CS 6207

CS 6208

Polynomials, Matrices and Algorithm

System Software

Measurements and Instrumentation

Object Oriented Programming

Data Communication

Advanced Electronics

Digital Electronics

System Analysis and Design

Database System Design and Management
Introduction to Software Engineering

06

09

06

09

06

06

06

06

06

06

TOTAL 66

Semester II

Code Name Credit

Core Courses

MS 6227

CS 6209

CS 6210

CS 6211

CS 6212

CS 6213

CS 6214

CS 6215

CS 6216

Discrete Mathematics and Complex Numbers

Field Practical Training II

Data Structure and File Handling

Basics of Telecommunication

Website Design and Hosting

Sequential Circuits

Microprocessor Technology

Information Management

Introduction to Embedded Systems

06

10

09

06

09

06

06

06

06

TOTAL 64

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113

C. Diploma in Computer Engineering (3rd Year)

Semester I

Code Name Credit

Core Courses

Code Name Credit

MS 6321

CS 6301

CS 6302

CS 6303

CS 6304

CS 6305

CS 6306

Coordinate Geometry and Vectors

Introduction to Fiber Optics Technology

Project I

Automation and Control Systems

Multimedia Production

Signal and Data Processing Circuits

Information and Cyber Security

06

09

12

09

09

09

09

TOTAL 63

Semester II

Core Courses

Code Name Credit

ST 6323 Probability and Statistics 06

BM 6122 Entrepreneurship 06

CS 6307

CS 6308

Introduction to Image, Video and Speech Processing

Project II

09

12

CS 6309

CS 6310

CS 6311

Digital Forensic

Introduction to Distributed Systems

Innovation and Creativity

09

09

09

TOTAL 60

BACHELOR OF COMPUTER ENGINEERING

A. Bachelor of Computer Engineering (1st Year)

Semester 1

Code Name Credits

CS 8135

EE 8104

ME 8170

ME 8171

CS 8136

CS 8137

CS 8138

CS 8139

CS 8140

Basic Electronics

Basic of Electrical Engineering

Workshop Technology

Engineering drawing

Computer Systems Maintenance and Repair

Computer Network I

Computer Programming and Algorithms

Microprocessor Technology I

Operating System

07

06

06

06

07

07

07

07

07

TOTAL 60

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114

Semester II

Code Name Credits

CS 8141

CS 8142

CS 8143
CS 8144
CS 8145
CS 8146
CS 8147
CS 8148
CS 8149
Data Communication
Sequential Circuit
Industrial Automation and control
Software Engineering I
Multimedia Application and Production
Networks Design and Implementation
System Analysis and Design I
Web design and Hosting
Industrial Practical Training I

5

5

8

6

6

8

8

6

10

TOTAL 66

A. Bachelor of Computer Engineering (2nd Year)

Semester I

Core Courses

Code Name Credits

CS 8235

CS 8236

CS 8237

CS 8238

CS 8290

CS 8272

MS 8270

HS 8101

Digital Systems

Communication Systems I

Electronic Devices

Data Structure and Computer Programming

Electrical Fundamentals

Calculus

Engineering Mechanics

Communication Skills

07

07

07

07

06

06

06

06

TOTAL 52

Semester II

Core Courses

Code Name Credits

CS 8239

CS 8240

CS 8241

CS 8242

CS 8243

CS 8244

EE 8302

ME 8271

ME 8272

MS 8128

Communication Systems II

Analogue Electronics

Computer Networks Management

Microprocessor Technology II

Computer System Engineering

Industrial Practical Training (IPT) II

Measurements and Instrumentation

Industrial Management

Mechanics of Machines

Advanced Calculus

07

07

07

07

07

10

07

06

06

06

TOTAL 70

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115

C. Bachelor of Computer Engineering (3rd Year)

Semester I

Core Courses

Code Name Credits

CS 8335

CS 8336

CS 8337

CS 8338

CS 8339

CS 8340

BM 8341

MS 8221

Electronic Circuits

Electronic Fabrication

Data base Systems

Control System Design I

Computer System Design

Operating Systems

Finance and Human Resource Management

Differential Equations

07

07

08

07

07

07

06

06

TOTAL 55

Semester II

Core Courses

Code Name Credits

CS 8341

CS 8342

CS 8343

CS 8344

CS 8345

CS 8346

CS 8347

CS 8348

MS 8222

Signal Processing
Object Oriented Programming
Control System Design II
Interactive Multimedia
Industrial Automation II
System Analysis and Design II
Industrial Practical Training (IPT) III
Engineering Operations Management
Statistics and Numerical Analysis

07

08

07

07

07

07

10

06

06

TOTAL 65

D. Bachelor of Computer Engineering (4th Year)

Semester I

Code Name Credits

CS 8416

CS 8417

CS 8418

CS 8419

CS 8420

CS 8421

CS 8422

CS 8423

Internet Technologies

Computer Graphics

Robotics Intelligent System

Real Time System Design

Expert Systems

Software Engineering II

Law of Engineers

Senior Project I

07

07

07

07

07

07

06

10

TOTAL 58

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116

Semester II

Code Name

CS 8424

CS 8425

CS 8426

CS 8427

BM 8108

CS 8428

User Interface Design

Computer Networks and Telegraphic Engineering

Design Embedded Processor Systems

Industrial Robotics

Entrepreneurship for Engineers

Senior Project II

12

12

12

12

6

10

TOTAL 66

BACHELOR OF COMPUTER SCIENCE

A. Bachelor of Computer Science (1st Year)

Semester I

Code Name Credits

Core Courses

MS 8121

CS 8101

HS 8101

CS 8102

CS 8103

CS 8104

CS 8105

CS 8106

Linear Algebra

Theory of Computation

Communication Skills

Introduction to Informatics and Microcomputers

Operating Systems

Programming Concepts
Basics in Digital Circuit
Computer Maintenance and Repair

06

08

06

09

08

09

09

09

TOTAL 64

Semester II

Code Name Credits

Fundamental Courses

CS 8107

CS 8108

CS 8109

MS 8125

CS 8110

CS 8111

CS 8112

CS 8113

CS 8114

Electrical Fundamentals

Logical Foundations

Analytical Methods of Computing

Calculus

Data Structure and Algorithms

Introduction to Computer Systems Architecture

Computer Networks

Computer Systems Design

Industrial Practical Training I

09

06

06

06

09

06

09

09

10

TOTAL 70

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117

B. Bachelor of Computer Science (2nd Year)

Semester I

Core Courses

Code Name Credits

BM 8108

BPP 845

MS 8125

CS 8201

CS 8202

CS 8203

CS 8204

CS 8205

CS 8206

CS 8207

Entrepreneurship

Research Methodology

Discrete Mathematics

Introduction to GIS

Software Engineering

Organisation and Project Management

Object Oriented Programming

Computer Graphics

Expert Systems

Website Development and Hosting

06

06

06

06

06

06

09

09

06

06

TOTAL 66

Semester II

Core Courses

Code Name Credits

DS 8101

CS 8208

CS 8209

CS 8210

CS 8211

CS 8212
CS 8213
CS 8214
CS 8215
Development Studies
Mathematical Logic and Formal Semantics
Introduction to Formal Methods
Advanced C Programming
Multimedia Systems
Software Development and Management
Database Design Concepts
Computer Algorithms and Modelling
Industrial Practical Training II
06
06
06
09
09
08
09
06
10
TOTAL 69
C. Bachelor of Computer Science (3rd Year)
Semester I
Core Courses
Code Name
CS 8301
ST 8122
CS 8302
CS 8303
CS 8304
CS 8305
CS 8306
CS 8307
Principles of Counting
Statistics and Numerical Analysis.
Professional Issues in Information Systems Practice
Distributed Systems
Network Design and Administration
Advanced OO Programming
Application Development for Mobile Devices.
Final Year Project 1
06

06

06

06

09

09

09

15

TOTAL 66

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118

Semester II

Core Courses

Code Name Credits

ST 8121

CS 8308

CS 8309

CS 8310

CS 8311

CS 8312

CS 8313

Queuing Theory and Inventory Models

E-Commerce

Trends in Changing Information Technology

Implementation of Databases

Visual Application Development

Management Information System

Final Year Project 2

06

06

06

09

09

10

15

TOTAL 96

BACHELOR OF ENGINEERING IN DATA SCIENCE

A. Bachelor of Engineering in Data Science (1st Year)

Semester I

Core Courses

Code Name Credits

HS 8101

CS 8116

MS 8225

MS 8126

DS 8101
CS 8117
ST 8124
Communication Skills
Principles of Programming
Discrete Mathematics for ICT
Linear Algebra
Development Studies
Introduction to Computer and Artificial Intelligence
Basic Statistics and Probability

09

09

08

09

08

06

09

TOTAL 58

Semester II

Core Courses

Code Name Credits

CS 8118

CS 8119

CS 8123

CS 8120

CS 8121

CS 8122

CS 8123

Industrial Practical Training I

Introduction to High Level Language

Mathematical Analysis I

Introduction to Database Systems

Introduction to Computer Networking

Security and Privacy

Introduction to Software Engineering

10

09

09

09

09

09

09

TOTAL 64

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119

B. Bachelor of Engineering in Data Science (2nd Year)

Semester I

Core Courses

Code Name Credits

CS 8216

MS 8225

ST 8225

CS 8217

CS 8218

CS 8219

CS 8220

Programming I-Object Oriented Programming

Calculus

Statistical Inferences

System Analysis and Design

Data Structures and Algorithms Analysis

Computer Organization and Architecture I

Introduction to Machine Learning

09

09

09

07

09

09

09

TOTAL 61

Semester II

Core Courses

Code Name Credits

CS 8221

CS 8222

CS 8223

ST 8224

CS 8245

CS 8225

CS 8226

Operating Systems

Internet Programming and Application

Cloud Computing

Regression Analysis and Forecasting

Database Management Systems

Industrial Practical Training II

Project Planning Monitoring and Evaluations

09

08

09

09

08

10

12

TOTAL 65

C. Bachelor of Engineering in Data Science (3rd Year)

Semester I

Core Courses

Code Name Credits

ST 8321

CS 8316

CS 8317

CS 8318

CS 8319

CS 8320

Multivariate Analysis and Stochastic Process

Big Data Programming

Categorical Data Analysis and Statistical Packages

System Integration Programming using Python

Data Science in Research, Business and Society

Network Analysis

Elective

11

08

08

09

09

08

08

TOTAL 62

Electives

CS 8326

CS 8327

ST 82251

Parallel Computing

Marketing Analytics and Big Data

Elements of Data Science

07

07

07

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120

Semester II

Core Courses

Code Name Credits

ST 8322

CS 8321

CS 8322

CS 8323

CS 8324

CS 8325

Regression Analysis

Data Security

Data Science Research Methods

Data Warehousing Design and Implementation

Web Data Compression and Search

Industrial Practical Training III

Elective

09

09

08

09

09

09

09

TOTAL 62

Electives

CS 8329

ST 82250

CS 8328

Knowledge Representation and Reasoning

R Programming

Big Data Management

09

09

09

C. Bachelor of Engineering in Data Science (4 th Year)

Semester I

Core Courses

Code Name Credits

CS 8400

CS 8401

CS 8402

CS 8403

CS 8404

CS 8405

Professional Ethics and Conduct

Data Science & Engineering Project I

Data Mining Design and Implementation

Business Process Intelligence and Analytic

Law and Data Science

Cognitive Science

Elective

07

12

09

09

09

08

09

TOTAL 63

Electives

CS 8411

CS 8412

Bioinformatics

Applied Deep Learning

09

09

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121

Semester II

Core Courses

Code Name Credits

CS 8406

CS 8407

CS 8408

BM 8108

CS 8409

DS 4226

Data Visualization and Data Driven Decision Making

Data Science and Engineering Project II

Applied Machine Learning

Entrepreneurship

Advanced Artificial Intelligence

Data Challenge

Elective

09

12

08

09

09

09

08

TOTAL 64

Electives

CS 8413

CS 8414

Actuarial Data and Analysis

Information Retrieval and Web Search

08

08

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8.3.3 DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

Programmes

The Department offers Two (2) Programmes:

a) Diploma in Electronics and Telecommunication Engineering

b) Bachelor of Engineering in Telecommunication Systems

8.3.3.1 LABORATORIES AND WORKSHOPS

i. Measurements Laboratory

ii. Electronics Laboratory

iii. Electrical Installation workshop

8.3.3.2 LIST OF STAFF

(Head of Department)

Dr. Sospeter S. Joseph PhD in Electrical Engineering (Telecommunication Option)

(PAUSTI- KENYA), MSc. Information Communication

Science and Engineering (Electronics and Telecommunications

Engineering) (NM-AIST), BSc. Telecommunication

Engineering (UDSM)*

Professors

Prof. Aloys Mvuma PhD. in Systems Engineering (Hiroshima University, Japan),

MSc. in Information Science (Shimane University, Japan),

BSc.in Electrical Engineering (UDSM)

Lecturers

Dr. Juma S. Ally PhD. in Information and Communication Engineering

(University of Science and Technology of China), MSc. in

Communication and Information Systems (Huazhong University

of Science and Technology) B.Eng. in Telecommunication

Engineering (Huazhong University of Science and Technology –

CHINA)

Assistant Lecturers

Mr. Charles O. Nyatega ME. Signal and Info. Processing (TUTE- CHINA). B.Eng in

Telecommunication Engineering (Huazhong University of

Science and Technology - CHINA).

Mr. Justine G. Mbilinyi* MSc. Electronics Eng. & IT (UDSM), BSc. Electrical Eng. (UDSM)

Mr. Bonaventura Matuntera Siko MSc Electronics Eng. (Varma High Institute of Mechanical and

Electrical Engineering - Bulgaria; FTC in Electronics & Telecommunication (DTC)

Mr. Emmanuel S. Mahenge* MSc. Telecom Eng. (UDOM), B.Eng. Electronics and Telecom (DIT)

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Mr. Daniel A. Sinkonde MSc. ICSE (NM-AIST, TZ). B.Eng. ECE (St. JCET); FTC in Mech. Eng. (MTC)

Mr. Geoffrey Katema* ME Signal & Info. Processing (TUTE– CHINA), B. Eng. ECE (St. JCET)

Mr. Zacharia B. Mzurikwao ME Signal & Info. Processing (TUTE– CHINA), B. Eng. EEE (St. JCET)

Ms. Lilian Kawala* ME Signal & Info. Processing (TUTE– CHINA), BSc in Electrical and Electronics (MUST), Dip in Electrical and Electronics (MIST)

Mr. Exaud Tarimo* MSc. Electronics & Comm. (Beijing Jiaotong Univ - CHINA) BSc. Telecommunication Engineering (UDSM)

Mr. Cuthbert John Karawa ME. Information and Communication Engineering (Huazhong

University of Science and Technology – CHINA), BSc.

Telecommunication Engineering (UDOM)

Mr. Emmanuel Anania Mwangosi ME. Information and Communication Engineering (Harbin

Engineering University-CHINA), BSc. Computer Science (Ruaha Catholic University).

Ms. Catherine Protas* MSc. Electronics Eng. & IT (UDSM) B.Eng. Electronics and Communication (SJCET)

Tutorial assistants

Ms. Candida Mwisomba BSc. Electronics and Communication Engineering (St. Joseph University in Tanzania)

Mr. Avitus Uranus Rwehumbiza BSc. Telecommunication Engineering (UDSM)

Instructors I

Mr. Monte S. Kayoka* MSc Comp & Communication (Waseda – Japan) B.Eng. Electrical Engineering (DIT), FTC Electrical (MTC)

Ms. Suzan M Misholi* MSc. Information and Communication Science and Engineering (NM-AIST), B.Eng. Electronics and Telecom (DIT)

Instructor II

Mr. Godwin B. Tunze* M.Electronic Engineering (KIT–Korea), BSc.

Telecommunication Engineering (UDSM)

Ms. Susan Mboje MSc. Oil & Natural Gas Eng. (China Univ. of Geosciences).

B.Eng. Electronics and Communication (SJCET)

*On study leave

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8.3.3.3 PROGRAMME COURSES

DIPLOMA IN ELECTRONICS AND TELECOMMUNICATION ENGINEERING

A. Diploma in Electronics and Telecommunication Engineering (1st Year)

Semester I

Fundamental Courses

Code Name Credits

EE 6116 Basics of Electrical Engineering 6

EE 6119 Fundamentals of Electrical Materials 7

EE 6120 Electrical Workshop Technology I 8

ET 6116 Basic Electronics 6

EE 6127 Electrical and Electronics Measurements 7

EE 6121 Technical Drawing I 6

MS 6121 Advanced Mathematics I 6

NS 6140 Physical Science I 6

HS 6116 Elements of Development Studies 6

IT 6116 Introduction to Computer 6

TOTAL 64

Semester II

Fundamental Courses

Code Name Credits

EE 6122 Basic Electrical Engineering II 6

ET 6117 Analog Electronics 6

ET 6118 Analog Electronics Lab 8

ET 6119 Basics of Telecommunication 6

EE 6125 Electrical Workshop Technology II 8

MS 6122 Advanced Mathematics II 6

NS 6145 Physical Science II 6

HS 6117 Communication Skills 6

BM 6122 Entrepreneurship 6

IT 6117 Computer Applications 6

TOTAL 64

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B. Diploma in Electronics and Telecommunication Engineering (2nd Year)

Semester I

Fundamental Courses

Code Name Credits

ET 6201 Digital Electronics I 6

ET 6202 Power Amplifiers and Oscillators 7
ET 6203 Analog Communication Systems 7
EE 6205 Introduction to Engineering Software 8
ET 6204 Data Communication 7
ET 6205 Television Engineering 7
MS 6221 Advanced Mathematics III 7
CS 6224 Computer Programming Basics 7
ET 6206 Industrial Practical Training I 10
TOTAL 66

Semester II

Fundamental Courses

Code Name Credits

ET 6207 Digital Electronics II 7
ET 6208 Digital Communication Systems 7
ET 6209 Cellular and Mobile Communications 7
ET 6210 Professional Practice 8
ET 6211 Instrumentation 7
EE 6214 Electric Machines 7
EE 6207 AutoCAD 7
ST 6221 Advanced Mathematics IV 6
CS 6202 Object Oriented programming 7
TOTAL 63

C. Diploma in Electronics and Telecommunication Engineering (3rd Year)

Semester I

Fundamental Courses

Code Name Credits

ET 6301 Optical Fiber Communication 8
ET 6302 Microprocessor and Microcontrollers 8
ET 6303 Electronic Equipment Maintenance 8
EE 6316 Fundamentals of Control Systems 7
ET 6304 Project I 8
ET 6305 Industrial electronics 7
IT 6324 Database Fundamentals 7
ET 6306 Industrial Practical Training II 10
TOTAL 63

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Semester II

Fundamental Courses

Code Name Credits

ET 6307 Wireless Communication Technologies 6
ET 6308 Telecommunication Switching Principles 7
EE 6313 Programmable Logic Controllers 7
ET 6309 Satellite and Microwave Communication 8

ET 6310 Antenna and Radar 8
ET 6311 Transmission Lines and Wave Guides 8
ET 6312 Computer Networking 8
ET 6313 Project II 10

TOTAL 62

BACHELOR OF ENGINEERING IN TELECOMMUNICATION SYSTEMS

A. Bachelor of Engineering in Telecommunication Systems (1st Year)

Semester I

Fundamental Courses

Code Name Credits

HS 8101 Communication Skills 9
DS 8101 Development Studies 9
ET 8101 Information Technology 9
ET 8102 Fundamentals of engineering drawing 9
ET 8103 Principles of programming 9
ET 8104 Fundamental of electrical engineering 9
ET 8105 Television Systems 9

TOTAL 63

Semester II

Fundamental Courses

Code Name Credits

MS 8121 Linear algebra and calculus 7
ET 8106 Introduction to computer networking 9
ET 8107 Fundamentals of electronics 7
ET 8108 Introduction to high level programming 9
ET 8109 Basics of control engineering 7
ET 8110 Fundamental of Telecommunication switching 9
ET 8111 Antenna and propagation 9
ET 8112 Field Practical Training 10

TOTAL 67

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B. Bachelor of Engineering in Telecommunication Systems (2nd Year)

Semester I

Fundamental Courses

Code Name Credits

MS 8227 Advanced calculus and probability 7
ET 8201 Database management systems and applications 7
ET 8202 Introduction to information systems Security 7
ET 8203 Circuit theory 7
ET 8204 Fundamental of analogue electronics 7
ET 8205 Instrumentation and measurements engineering 9
ET 8206 Computer networking protocols 7
ET 8207 Introduction to engineering application software 9

TOTAL 60

Semester II

Fundamental Courses

Code Name Credits

BM 8206 Research Methodology 7

MS 8221 Differential equations 7

ET 8208 Data structures and algorithms analysis 7

ET 8209 Object oriented programming 7

ET 8210 Introduction to operating systems 7

ET 8211 Signals and systems 7

ET 8212 Electromagnetic theory I 7

ET 8213 Fundamentals of electronics 7

ET 8214 Field Practical Training 10

TOTAL 66

C. Bachelor of Engineering in Telecommunication Systems (3rd Year)

Semester I

Fundamental Courses

Code Name Credits

ET 8301 Digital electronics 7

ET 8302 Data communication and networks 7

ET 8303 Electromagnetic theory II 7

ET 8304 Microprocessor and interfacing 9

ET 8305 Intelligent Embedded systems 9

ET 8306 Optical communication Systems 7

ET 8307 Principles of communications systems 9

Elective Courses

ET 8308 Cellular Communication System 7

ET 8309 Very Large-scale integrated circuits 7

TOTAL 62

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Semester II

Fundamental Courses

Code Name Credits

ET 8309 Fuzzy logic and Expert Systems 9

ET 8310 Tele-traffic engineering 7

ET 8311 Digital telecommunications 9

ET 8312 Microcontroller systems 7

ET 8313 Microwave engineering 7

ET 8314 Introduction to 3D modeling and image acquisition 7

ET 8318 Field Practical Training 10

Elective Courses

ET 8315 Networking Routers and Routing Protocols 7

ET 8316 Information systems security 7

ET 8317 LAN switches 7

TOTAL 63

D. Bachelor of Engineering in Telecommunication Systems (4th Year)

Semester I

Fundamental Courses

Code Name Credits

ET 8401 Engineering project management 7

ET 8402 Mobile communication 9

ET 8403 Information theory and coding 9

ET 8404 Professional ethics and conduct 7

ET 8405 Digital signal processing 9

ET 8409 Project I 12

Elective Courses

ET 8406 Network forensics 7

ET 8408 Wan technologies 7

TOTAL 60

Semester II

Fundamental Courses

Code Name Credits

ET 8410 Engineering entrepreneurship 6

ET 8411 Telecommunication systems and networks 7

ET 8412 Satellite Communication Systems 7

ET 8413 System administration and management 8

ET 8414 Digital image processing 8

ET 8417 Project II 16

Elective Courses

ET 8415 Legal aspects of Telecommunication Systems 8

ET 8416 Programmable logic controller 8

TOTAL 60

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8.3.4 DEPARTMENT OF INFORMATICS

Programmes

The Department is in the process of developing the curricula for Diploma and Bachelor degree programmes.

The Department offers one (1) programme:

a) Diploma in Business Computing

8.3.4.1 LIST OF STAFF

(Head of Department)

Dr. Sadiki Lameck Kusyama PhD in Information and Communication Science and Engineering (Nelson Mandela African Institution of Science and Engineering) MSc in Information and Communication Science and Engineering (Nelson Mandela African Institution of Science and Engineering), B.Eng. in Computer Engineering (Dar es

Salaam Institute of Technology)

Lecturers

Dr. Sospeter S. Joseph PhD in Electrical Engineering (Telecommunication Option)

(PAUSTI– KENYA), MSc. Information Communication

Science and Engineering (Electronics and Telecommunications

Engineering) (NM-AIST), BSc. Telecommunication

Engineering (UDSM)*

Assistant Lecturers

Mr. Ayubu H. Mbaga ME Signal & Infor. Processing (TUTE– CHINA), B. Eng. ECE

(St. JCET)

Ms. Neema Rajabu MSc. Software Engineering (Kampala International University-

Uganda), Bsc. In Computer Science (Kampala International

University-Tanzania)

Mr. Peter J. Madembwe MSc. In Information Technology (MUST) and B.Sc Computer

Science (St. Joseph)

Tutorial assistant

Mr. Aman Sanga B. Eng. (DIT)

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Senior Instructor I

Mr. Godphrey G. Kyambile* MSc. Comp (NM-AIST), BSc Computer Science (St. Joseph)

Mr. Ally S. Sikoro MSc. Comp (UDOM), B. Eng. (DIT), FTC (DIT)

Instructor II

Mr. Ipyana Issa Mwisekwa* BSc. Information Technology and Systems (Mzumbe University)

*Study leave

8.4.1.2 PROGRAMME COURSES

DIPLOMA IN BUSINESS COMPUTING

A. Diploma in Business Computing (1st Year)

Semester I

Fundamental Courses

Code Name Credits

HS 6117 Communication Skills 6

IF 6116 Business computing concepts and applications 6

BM 6117 Basics of Management Principles 6

IF 6117 Fundamentals of computer networks 6

BM 6108 Elements of Commerce 6

BM 6118 Basics of Financial Accounting 9

IF 6118 Computer Maintenance and Repair 6

MIS 6125 Business Mathematics 9

IF 6120 Computer Maintenance and Repair Lab works 6

TOTAL 60

Semester II

Fundamental Courses

Code Name Credits

BM 6122 Entrepreneurship 6

MIS 6126 Advanced Business Mathematics 9

BM 6133 Intermediate Accounting 6

IF 6121 Introduction to Operating System 6

BM 6126 Elementary of Economics 6

IF 6122 Computer Networks Design and Management 9

BM 6124 Basics of Business Law and Ethics 6

IF 6125 Computer Networks Design and Management Lab works 6

IF 6126 Introduction to Database 6

TOTAL 60

B. Diploma in Business Computing (2nd Year)

Semester I

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Code Name Credits

IF 6212 Industrial Practical Training 10

IF 6215 CyberSecurity 6

If 6213 Basics of Electronics 6

IF 6201 Business programming 6

IF 6202 Business Database Systems 9

IF 6203 System Analysis and Design 9

BM 6205 Basics of Research Methodology 6

IF 6214 Business Information Systems 6

IF 6204 Business Programming Lab works 6

IF 6205 Business Database Systems Lab works 6

TOTAL 70

Semester II

Fundamental Courses

Code Name Credits

IF 6211 Basics of Software Engineering 6

BM 6216 Basics of Taxation and Public Finance 6

BM 6217 Basics of Cost Accounting 6

IF 6206 Object-Oriented Business Design in C++ 9

IF 6207 Business Statistical Packages 6

IF 6216 IT Auditing theory and practice 6

BM 6232 Basics of International Marketing 9

IF 6208 Object-Oriented Business Design in C++ Lab works 6

IF 6209 Business Statistical Packages Lab works 6

IF 6210 E-Commerce 6

TOTAL 66

C. Diploma in Business Computing (3rd Year)

Semester I

Fundamental Courses

Code Name Credits

IF 6316 Object-Oriented Business Design in Java 6

IF 6301 Mobile Apps Development 9

IF 6302 Project Management 6

IF 6303 Web Application Development 9

IF 6304 Web Application Development Lab Works 6

IF 6305 Industrial Practical Training 10

IF 6315 Business start-up and Management 6

IF 6306 Project I 10

TOTAL 62

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Semester II

Fundamental Courses

Code Name Credits

IF 6307 Business Computing Ethics 6

IF 6308 Multimedia Application and Production 9

IF 6309 Multimedia Application and Production Lab works 6

IF 6310 Artificial Intelligence 6

IF 6311 Enterprise Information Management 6

IF 6312 Computerized Accounting 9

IF 6313 Computerized Accounting Lab works 6

IF 6314 Project II 6

TOTAL 61

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8.4 COLLEGE OF SCIENCE AND TECHNICAL EDUCATION (CoSTE)

8.4.1 THE DEPARTMENT OF APPLIED SCIENCES

Programmes

The Department offers two (2) Programmes:

a) Diploma in Laboratory Science and Technology

b) Bachelor of Laboratory Science and Technology

8.4.1.1 LABORATORIES

i. Microbiology Laboratory

ii. Biochemistry Laboratory

iii. Molecular Biology Laboratory

8.4.1.2 LIST OF STAFF

(Head of Department)

Dr. Hezron Mwakabona PhD. Chemical Engineering (KU Leuven, Belgium); MSc.

Environmental Science and Engineering (NM-AIST); BSc.

Edu. Chemistry/Biology (UDSM)

Professors

Prof. Godliving Mtui

PhD (Kanazawa), MSc (Kanazawa), BSc. Hons (UDSM)

Lecturers

Dr. Gaspary Mwanyika* PhD Molecular Biol. (SUA), MSc. Life Sci (Health & Biomedical Sciences (NM-AIST), BSc. Biotech & Lab Sci. (SUA)

Dr. Bernadether Rugumisa PhD Molecular Sciences (UDSM), MSc. Life Sci (Health & Biomedical Sciences (NM-AIST), BSc. Biotech & Lab Sci. (SUA)

Dr. Tumikia Sanga PhD Biology (Copperbelt University, Zambia), MSc biochemistry (SUA), BSc with Education (SUA)

Assistant Lecturers

Ms. Paskalina Badi* MSc. Biochemistry (SUA), BSc. Biotech & Lab Sci (SUA)*

Mr. Baraka Ngingo MSc One Health Molecular Biology (SUA), BSc Biotechnology & Lab Sciences (SUA)

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Ms. Felista Magesa MSc Life Sci (Health & Biomedical Sciences (NM-AIST), BSc Biotechnology & Lab Sciences (SUA)

Mr. Victor Sanga MSc Environment & Ecotoxicology (UDSM), BSc Sci with Education (SUA)

Tutorial Assistants

Mr. Frank Mahiki BSc. Molecular Biology & Biotechnology (UDSM), Diploma in Laboratory Science & Technology (ATC),

Mr. Musa Mbotoni* BSc. Technology in Laboratory Science (DIT), Diploma in Lab Sci & Technology (MUST)*

Mr. Ramadhani Shebughe BSc. Medical Laboratory (MUHAS)

Instructors

Mr. Kalugula Junja MSc. Agricultural Biotechnology (Szent Istav University, Hungary), BSc. Biotechnology. (SUA)

Mr. Nicolaus Mbugi* MSc. Life Sciences (Health and Biomedical Science) (NM-AIST), BSc. Biotech (SUA)*

Ms. Grace Rugalema* MSc. One Health Molecular Biology (SUA), BSc. Biotechnology & Laboratory Sci. (SUA)*.

Laboratory Technicians

Mr. Peter Barageti BSc. Biotechnology (SUA), Diploma in Science and Lab. (DIT)

Mr. Joseph Kayange BSc. Lab Tech. (SUA), Diploma in Science and Lab. (DIT)

Mr. Charles Chekecha BSc. Lab Tech. (SUA), FTC Science and Lab. (DIT)

Ms Imelda Ndetewale Diploma in Lab Science and Tech. (MUST)

Ms. Kokusima Kalugendo Diploma in Lab Science and Tech. (MUST)

*Study leaves

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8.4.1.3 PROGRAMME COURSES

DIPLOMA IN LABORATORY SCIENCE AND TECHNOLOGY

A. Diploma in Laboratory Science and Technology (1st Year)

Semester I

Code Name Credits

MS 6130 Algebra for Laboratory Science 8
NS 6116 Basics of Cell Biology 8
NS 6117 Atomic Theory and Radioactivity 8
BM 6122 Entrepreneurship 10
NS 6118 Mechanics 8
HS 6117 Communication Skills 10
CS 6118 Fundamentals of Computer Application 8
NS 6119 Physical Chemistry I 8
TOTAL 68

Semester II

Code Name Credits

NS 6131 Basics of Calculus 8
NS 6120 Classification of Living Organisms 7
NS 6121 Laboratory Solutions and Bench Reagents 7
NS 6122 Mechanics of materials 6
HS 6116 Elements of Developmental Studies 10
NS 6123 Experimental Chemistry I 8
NS 6124 Experimental Physics I 7
NS 6125 Experimental Biology 7
NS 6126 Industrial Practical Training 10
TOTAL 70

B. Diploma in Laboratory Science and Technology (2nd Year)

Semester I

Code Name Credits

NS 6201 Laboratory Instrumentation and maintenance 8
NS 6202 Laboratory Samples and Specimens 8
NS 6203 Physical Chemistry II 8
NS 6204 Essentials of Physiology 8
NS 6205 Heat 8
ST 6222 Applied Statistics 8
NS 6206 Laboratory Safety and Design 8
NS 6207 Preparation of Biological Reagents and Stains 8
TOTAL 64

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Semester II

Code Name Credits

NS 6208 Laboratory Separation Techniques 8
NS 6209 Inorganic Chemistry 8
NS 6210 Fundamentals of Biochemistry 8
NS 6211 Research Techniques 6
NS 6212 Experimental Biology II 8

NS 6213 Experimental Chemistry II 8
NS 6214 Experimental Physics II 8
NS 6215 Industrial Practical Training 10
NS 6216 Electricity and Electromagnetism 8
TOTAL 72

C. Diploma in Laboratory Science and Technology (3rd Year)

Semester 1

Code Name Credits

NS 6301 Basics of Biotechnology 10
NS 6302 Waves and Light 10
NS 6303 Environmental Management and Industrial Hygiene 8
NS 6304 Industrial Chemistry 8
NS 6305 Analytical Chemistry 8
NS 6306 Experimental Chemistry III 8
NS 6307 Classification of living organism II 8
TOTAL 60

Semester II

Code Name Credits

NS 6308 Electronics and Nuclear Physics 10
NS 6309 Organic chemistry 10
NS 6310 Fundamentals of Microbiology 8
NS 6311 Laboratory Quality Assurance 8
NS 6312 Experimental Biology III 8
NS 6313 Experimental Physics III 8
NS 6314 Research Project 10
TOTAL 62

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DIPLOMA IN BIOTECHNOLOGY

A. Diploma in Biotechnology (1st Year)

Semester I

Code Name Credits

CS 6118 Fundamental of Computer Application 8
HS 6117 Communication Skills 10
AS 6128 Fundamentals of Biotechnology 9
AS 6129 Cell Biology and Molecular Biology 9
AS 6130 Basics of Lab Equipment Maintenance and Servicing 9
AS 6131 Introduction to Human Anatomy and Physiology 12
AS 6132 Introduction to Biochemistry 9
TOTAL 66

Semester II

Code Name Credits

AS 6111 Laboratory Animal Science 9
AS 6112 Microbial Genetics 12

AS 6113 Practical Training 10
AS 6114 Introduction to Pharmacology 12
AS 6115 Analytical Chemistry 12
AS 6116 Mushroom farming technology 6
TOTAL 61

B. Diploma in Biotechnology (2nd Year)

Semester I

Code Name Credits

AS 6233 Cell and Tissue Techniques 9
AS 6234 Fundamentals of Microbiology 12
AS 6235 Introduction to Parasitology and Entomology 12
AS 6236 Introduction to Plant Physiology 9
AS 6237 Introduction to Statistics 9
AS 6238 Human Pathology 10
TOTAL 61

Semester II

Code Name Credits

AS 6216 Introduction Immunology and Vaccine 12
AS 6217 Practical Training 10
AS 6218 Research Methods and Applications 9
AS 6219 Diagnostic Parasitology 12
AS 6220 Fundamentals of Nutrition 9
AS 6221 Biosafety and Ethics 9
TOTAL 60

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C. Diploma in Biotechnology (3rd Year)

Semester 1

Code Name Credits

AS 6314 Medical Ethics 9
AS 6315 Cellology and Histology 12
AS 6316 Research Project I 12
AS 6317 Food Microbiology 9
AS 6318 Plant Pathology 9
AS 6319 Haematology 9
TOTAL 60

Semester II

Code Name Credits

AS 6320 Research Project II 11
AS 6321 Bio-entrepreneurship 9
AS 6322 Plant Breeding 12
AS 6323 Fermentation technology 9
AS 6324 Animal Breeding 12
AS 6325 Quality Control and Assurance 9

TOTAL 63

BACHELOR OF SCIENCE IN BIOTECHNOLOGY

A. Bachelor of Science in Biotechnology (1st Year)

Semester I

Code Name Credits

CS 7116 Computer Skills 8

HS 7117 Communication Skills I 9

AS 8111 Fundamentals of Biotechnology 8

AS 8112 Cell Biology and Genetics 8

AS 8113 Laboratory Equipment and Management 6

AS 8114 Principles of Analytical Chemistry 8

AS 8115 Introduction to Biochemistry 8

AS 8116 Plant Physiology 8

AS 8125 Animal Physiology 8

TOTAL 63

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Semester II

Code Name Credits

AS 8117 Cell and Tissue Techniques 9

AS 8118 Fundamentals of Microbiology 10

AS 8119 Parasitology and Entomology 10

AS 8120 Introduction to Virology 8

AS 8121 Microbial Genetics 6

AS 8122 Practical Training 12

AS 8123 Plant Pathology 8

AS 8124 Human Pathology 8

TOTAL 63

B. Bachelor of Science in Biotechnology (2nd Year)

Semester I

Code Name Credits

AS 8217 Laboratory Animal Science 9

AS 8218 Diagnostic Microbiology 9

AS 8219 Applied Biochemistry 9

AS 8220 Diagnostic Parasitology 9

AS 8221 Environmental Biotechnology 9

AS 8222 Introduction to Statistics 9

AS 8223 Food Microbiology 8

AS 8224 Medical Microbiology 8

TOTAL 61

Semester II

Code Name Credits

AS 8225 Vaccine and Drug Development 10

AS 8226 Immunology and Immunodiagnostics 10

AS 8227 Research Methods and Application 9

AS 8228 Quality Control and Assurance 9

AS 8229 Biostatistics 9

AS 8230 Biosafety and Ethics 9

AS 8231 Practical Training 12

TOTAL 68

C. Bachelor of Science in Biotechnology (3rd Year)

Semester 1

Code Name Credits

AS 8317 Fundamentals of Bioinformatics 9

AS 8318 Post-Harvesting Technology 9

AS 8319 Gene Technology 12

TOTAL 30

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Specialization Course in Semester I

Medical specialization

AS 8320 Public Health and Risk assessment 9

AS 8321 Biomedical Technology 12

AS 8322 Cellogy and histology 9

TOTAL 30

Industrial/Agricultural specialization

AS 8323 Biocontrol of Crop Diseases 9

AS 8324 Plant Breeding 9

AS 8325 Bio Fertilizer Technology 12

TOTAL 30

Semester II

Code Name Credits

AS 8326 Research Project 12

AS 8327 Bio Entrepreneurship 6

AS 8328 Bioprocess Engineering and Design 12

AS 8329 Pharmacology and Pharmacokinetics 9

TOTAL 39

Specialization Course in Semester II

Medical specialization

AS 8330 Epidemiology 12

AS 8331 Haematology and Blood Transfusion 12

TOTAL 24

Industrial/Agricultural specialization

AS 8332 Food Biotechnology 12

AS 8333 Animal Biotechnology 12

TOTAL 24

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BACHELOR OF LABORATORY SCIENCE AND TECHNOLOGY

A. Bachelor of Laboratory Science and Technology (1st Year)

Semester I

Core Courses

Code Name Credits

NSLT 07101 Advanced Organic Chemistry 8

NSLT 07102 Cell Biology 8

NSLT 07103 Organic Spectroscopy 8

NSLT 07104 Applied Thermodynamics 8

NSLT 07105 Chromatographic Techniques 8

MLT 07101

NSLT 07106

Calculus

Technical Communication Skills

8

8

TOTAL 56

Semester II

Core Courses

Code Name Credits

NSLT 07201 General Microbiology 8

NSLT 07202 Laboratory Management and Maintenance 8

NSLT 07203 Industrial Practical Training (IPT) 12

NSLT 07204 Fundamentals of Physics 8

NSLT07208 Experimental Methods of Physics 8

TOTAL 44

Elective Courses

Code Name Credits

NSLT 07206 Digital Electronics 8

NSLT 07205 Advanced Calculus 8

NSLT 07212 Industrial Management 8

NSLT 07111 Fluid Mechanics 8

TOTAL 32

Elective Courses

Code Name Credits

ELT 07101 Analogue Electronics 8

TOTAL 8

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B. Bachelor of Laboratory Science and Technology (2nd Year)

Semester I

Core Courses

Code Name Credits

NSLT 07301 General Physical Chemistry 8

NSLT 07309 Chemistry Practical I 8
NSLT 07302 Molecular Biology 8
NSLT 07303 Applied Organic Chemistry 8
NSLT 07304 Advanced Laboratory Stores Management 8
NSLT 07305 Computational Physics and Electronics 8
NSLT 07306 Environmental Impact and Risk Assessments 8
NSLT 07308 Water Treatment and Wastewater Management 8
NSLT 07303 Differential Equations and Complex Variable 8
TOTAL 72

Elective Courses

Code Name Credits

COLT 07302 Microprocessor 8
ELT 07306 Digital Control System Engineering 8
NSLT07322 Finance and Human Resource Management 8
TOTAL 24

Semester II

Core Courses

Code Name Credits

NSLT 07401 Principles of Physics 8
NSLT 07402 Industrial Chemistry 8
NSLT 07403 Nuclear Chemistry 8
NSLT 07404 Biochemistry 8
NSLT 07406 Chemistry Practical II 8
NSLT 07405 Industrial Practical Training 12
NSLT 07307 Metal Technology 8
TOTAL 60

Elective Courses

Code Name Credits

NSLT 07404 Probability and Statistics 8
NSLT 07407 Research Methods 8
NSLT 07111 Fluid Mechanics 8
TOTAL 24

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C. Bachelor of Laboratory Science and Technology (3rd Year)

Semester I

Core Courses

Code Name Credits

NSLT0 8101 Thermal and Condensed Matter Physics 8
NSLT 08102 Ecology 8
NSLT 08103 Instrumental Analytical Chemistry, Quality Control and Assurance 8
NSLT 08104 Project Data Collection 12
NSLT 08105 Electronic Polymers and Polymer-Based Magnets 8
NSLT 08106 Applied Electromagnetism 8

NSLT 08107 Soil and Water Quality Testing 8

NSLT 08108 Automation in the Laboratory 8

TOTAL 68

Elective Course

Code Name Credits

ELT 08106 Laws for Engineers 8

TOTAL 8

Semester II

Core Courses

Code Name Credits

NSLT 08201 Applied Biochemistry 8

NSLT 08202 Industrial Microbiology 8

NSLT 08203 Synthetic Organic Chemistry 8

NSLT 08204 Project 12

NSLT 08205 Explosives and Propellants 8

NSLT 08206 Lubricants Chemistry 8

NSLT 08207 Wave Mechanics 8

NSLT 08208 Environmental Pollution and Mitigations 8

BMLT08201 Basic Entrepreneurship 8

TOTAL 76

Elective Course

Code Name Credits

NSLT 08209 Renewable Energy Technologies 8

TOTAL 8

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8.4.2 THE DEPARTMENT OF NATURAL SCIENCES

Programmes

The Department offers two (2) Programmes:

i. Bachelor of Science with Education in the following combinations

o Chemistry and Biology

o Chemistry and Mathematics

o Chemistry and Physics

o Physics and Mathematics

ii. Bachelor of Science in Chemistry

8.4.2.1 LABORATORIES AND UNITS

i. Chemistry Laboratory

ii. Biology Laboratory

iii. Physics Laboratory

iv. Animal unit

8.4.2.2 LIST OF STAFF

(Head of Department)

Dr. Tumikia Sanga PhD Biology (Copperbelt University, Zambia), MSc biochemistry (SUA), BSc with

Education (SUA)

Lecturers

Dr. Eliezer B. Mwakalapa PhD. Veterinary Sciences (Norwegian University of Life Sciences, Norway); MSc.

Marine Sciences (UDSM); BSc. Aquaculture (SUA)

Dr. Regan N. Kavishe PhD. Aquaculture Science (Ningbo University, China); MSc. Aquaculture Science

(Ningbo University, China); BSc. Aquaculture (SUA)

Dr. Khamis N. Ally

Dr. Colletha Y. Mengo

PhD. Chemistry (Zonguldak Bulent Ecevit University, Turkey); MSc. Chemistry

(Sakarya University, Turkey); Bachelor of Chemistry (Sakarya University, Turkey)

PhD. Applied Zoology (UDSM); MSc. Zoology (UDSM); BSc. Ed. (UDSM); Dipl.

Edu. Chemistry/Biology (Kleruu Teachers College) *

Assistant Lecturers

Mr. Salum S.M. Hassan MSc. Natural Product and Value Addition (SUA); BSc. Ed. Chemistry and Biology

(SUA); Dip. ED. Chemistry and Biology (Monduli Teachers College)*

Mr. Omega A. Vicent MSc. Marine Sciences (UDSM); BSc. Aquatic Environmental Science and

Conservation (UDSM)*

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Mr. Kombo A. Kombo MSc. Physics (Gadjah Mada University, Indonesia); BSc. Ed. Physics & Maths

(Muslim University) *

Mr. Bugumba J. Majondo MSc. Nuclear Physics (UDSM); BSc. Ed. Physics & Maths (UDSM)*

Mr. Amosi Makoye S MSc. Material Science and Engineering (NM AIST); BSc. Chemistry (UDOM)*

Mr. Charles Johnstone MSc. Physics (UDOM); BSc. Ed (UDSM) *

Mr. Phares M.D. Petro MSc. Chemistry –(UDSM), BSc. Education (SUA)

Mr. Almachius R. Rweyemamu MPhil. Chemistry (Kwame Nkrumah University, Ghana), BSc. Education. (UDSM)*

Mr. John P. Kachira MSc. Physics (UDSM); BSc. Ed. (UDSM)*

Mr. Bahati Kyando MSc. Chemistry (UDSM); BSc. Edu Chemistry/Biology (SUA)

Mr. Paul Mariba MSc. Chemistry (UDSM); BSc. Education (UDSM)

Ms. Joyce Ndinadyo Ndalijane MSc. Edu. Biology (UDSM); BSc. Edu Chemistry/Biology (UDSM); Dipl. Edu.

Chemistry/Biology (Kleruu Teachers College)*

Mr. Abel Mwakuna

Mr. Privatus Pius

MSc. Physics (UDOM); BSc. Physics (UDOM)

MSc. Physics (UDOM); BSc. Education Physics/Mathematics (UDOM)

Mr. Mussa B Mbegeze

Tutorial Assistant

MSc. Biochemistry (UDSM); BSc. Ed Chemistry and Biology (UDSM)

Mr. Ayub Mwera BSc. Ed. Physics & Maths (UDSM)

Mr. Festo Kapinga BSc. Ed. Physics & Maths (UDSM-MUCE)

Mr. Charles Kadala BSc. Ed. Physics (UDSM-DUCE)

Ms. Rehema Thoiba BSc. Edu. Chemistry (UDSM)

Mr. Sylvester R. Mnyawi BSc. Ed. Chemistry and Biology (UDOM)

Mr. Aleni Rudovick Felix BSc. Physics (UDOM)

Dr. Adili Assa Mbembela Bachelor of Veterinary Medicine (SUA)*

Laboratory Technicians

Ms. Eva Mwachese Dip. Laboratory Sciences and Technology (MUST)

Ms. Syambutwa Magambo Dip. Laboratory Sciences and Technology (MUST)

Mr. John Chagu Bachelor of Technology in Laboratory Sciences (DIT); Dip. Laboratory Sciences and

Technology (MUST)

Ms. Kokusima Kalugendo Dip. Laboratory Sciences and Technology (MUST)

Mr. Emmanuel F. Mauris Dip. Laboratory Sciences and Technology (MUST)

Ms. Paulina J. Mwita BSc. Biotechnology and Laboratory Sciences (SUA); Dip. Laboratory Sciences and

Technology (MUST)

*On study leave

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8.4.2.3 PROGRAMME COURSES

BACHELOR OF SCIENCE WITH EDUCATION

A. UQF Level 8 Bachelor (Physics Courses)

Semester I

Code Name Credits

NSPH1101 Classical Mechanics 8

NSPH1102 Vibrations, Waves and Optics 8

TOTAL 16

Semester II Year I

Code Name Credits

NSPH1203 Experimental Methods of Physics I 8

NSPH1204 Electromagnetism 8

TOTAL 16

Semester III Year 2

Code Name Credits

NSPH2105 Earth Atmosphere System 12

NSPH2106 Experimental Methods of Physics II 8

NSPH2107 Mathematical Methods of Physics 12

NSPH2108* Advanced Mechanics* 8

TOTAL 40

Semester IV Year 2

Code Name Credits

NSPH2209 Quantum Physics 12

NSPH2210* Fundamentals of Material Science* 8

NSPH2211 Fundamentals of Electrodynamics 8

TOTAL 28

Semester V Year 3

Code Name Credits

NSPH3112 Electronics 8

NSPH3113 Fundamentals of Atmospheric Physics 8

NSPH3114* Elementary Particles* 8

NSPH3115* Energy in the Environment* 8

TOTAL 32

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Semester VI Year 3

Code Name Credits

NSPH3216 Physics of the Atom 8

NSPH3317 Solid State Physics 8

NSPH3218* Physics Project* 12

NSPH3219* Astrophysics* 8

NSPH3220* The Basics of NMR Spectroscopy* 8

TOTAL 44

* Elective Course

B. UQF Level 8 Bachelor (Chemistry Courses)

Semester I Year 1

Code Name Credits

NSCH1101 Basic Analytical and Physical Chemistry 8

NSCH1102* Introduction to Electronic Structure* 8

NSCH1103 Chemistry Practical 1 8

24

Semester II Year 1

Code Name Credits

NSCH1204 Organic Chemistry I 8

NSCH1205 Chemistry Practical II 8

NSCH1206 Basic Inorganic Chemistry 8

TOTAL 24

Semester III Year 2

Code Name Credits

NSCH2107 Chemical Thermodynamics 8

NSCH2108 Chemistry Practical III 8

NSCH2109 Instrumental Methods in Analytical Chemistry 8

NSCH2110* Organic Structures, Reactions and Mechanisms* 12

TOTAL 36

Semester IV Year 2

Code Name Credits

NSCH2211 Organic Chemistry II 12

NSCH2212 Transition Element and Coordination Chemistry 12

NSCH2213 Chemical Kinetics and Catalysis 10

NSCH2214 Chemistry Practical IV 8

NSCH2215* Environmental Analytical Chemistry* 8

TOTAL 50

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Semester V Year 3

Code Name Credits

NSCH3116* Chemistry Project* 12

NSCH3117 Chemistry Practical V 8

NSCH3118 Electrochemistry and Corrosion Protection 8

NSCH3119* Polymer Chemistry* 8

TOTAL 36

Semester VI Year 3

Code Name Credits

NSCH3220 Organic Spectroscopy 8

NSCH3221* Spectroscopy in Coordination Chemistry* 8

NSCH3222* Chemistry of Natural Products* 8

TOTAL 24

* Elective Course

C. UQF Level 8 Bachelor (Biology Courses)

Semester I Year

Code Name Credits

NSBL 1101 Introduction to Cell Biology and Genetics 8

NSBL 1102 Invertebrate Zoology 8

NSBL 1103 Ecology 8

NSBL 1104* Fundamentals of Microbiology I* 8

TOTAL 32

Semester II Year 1

Code Name Credits

NSBL 1205* Plant Physiology* 12

NSBL 1206 Chordate Zoology 8

NSBL 1207 Developmental Biology 8

NSBL 1208* Mammalian Biology* 10

TOTAL 38

Semester III Year 2

Code Name Credits

NSBL 2109 Vertebrate Anatomy and Physiology I 8

NSBL 2110 Introduction to Parasitology and Entomology 8

NSBL 2111* Fundamentals of Soil Science* 8

TOTAL 24

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Semester IV Year 2

Code Name Credits

NSBL 2212*

NSBL 2213

NSBL 2214

Biochemistry*

Vertebrate Anatomy and Physiology II

Fundamentals of Microbiology II

10

10

8

TOTAL 28

Semester V Year 3

Code Name Credits

NSBL 3115*

NSBL 3116

NSBL 3117

NSBL 3118*

Molecular Genetics*

Evolution

Taxonomy of Higher Plants

Plant Pathology*

8

8

8

8

TOTAL 32

Semester VI Year 3

Code Name Credits

NSBL 3219

NSBL 3220

NSBL 3221*

Introduction to Biodiversity

Anatomy of Angiosperm

Physiology of Nutrition*

10

10

8

TOTAL 28

* Elective Course

D. UQF Level 8 Bachelor (Mathematics Courses)

Semester I Year 1

Code Name Credits

NSMT1101* Mathematical Analysis I* 8

NSMT1102 Linear Algebra and Applications 8

NSMT1103 Coordinate Geometry 8

NSMT1105* Linear Programming C+* 8

TOTAL 32

Semester II Year 1

Code Name Credits

NSMT1206 Basics of Statistics 8

NSMT1207 Ordinary Differential Equations 8

NSMT1208* Discrete Mathematics* 8

NSMT1209* Computer Programming in C++* 8

TOTAL 32

Semester III Year 2

Code Name Credits

NSMT2110 Mathematical Analysis II 8

NSMT2111 Numerical Analysis I 8

NSMT2112* Data Structures and Algorithm* 8

TOTAL 24

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Semester IV Year 2

Code Name Credits

NSMT2213 Basics of Functional Analysis 8

NSMT2214 Probability Theory 8

NSMT2215 Introduction to Number Theory 8

NSMT2216* Partial Differential Equations* 8

TOTAL 32

Semester V Year 3

Code Name Credits

NSMT3117 Abstract Algebra 8

NSMT3118 Introduction to Real Analysis 8

NSMT3119* Database Design* 8

TOTAL 24

Semester VI Year 3

Code Name Credits

NSMT3220 Complex Variable Analysis 8

NSMT3221* Mathematics Project* 12

NSMT3222 Statistical Inference 8

TOTAL 28

* Elective Course

E. UQF Level 8 Bachelor (Education Courses)

Semester I Year 1

Code Name Credits

NSED 1101 Education Foundation and Philosophy 8

NSED 1102 Education Media and Technology 8

TOTAL 16

Semester II Year 1

Code Name Credits

NSED 1203 Introduction to Educational Psychology 8

NSED 1204 Teaching Methods 10

NSED 1205 Teaching Practice for First Year 12

TOTAL 30

Semester III Year 2

Code Name Credits

NSED 2106 Guidance and Counselling in Education 8

NSED 2107 Education Measurement and Evaluation 8

TOTAL 16

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Semester IV Year 2

Code Name Credits

NSED 2108 Principles of Curriculum Development 10

NSED 2209 Teaching Practice for Second Year 12

TOTAL 22

Semester V Year 3

Code Name Credits

NSED 3110 Education Management and School Administration 8

TOTAL 8

Semester VI Year 3

Code Name Credits

NSED 3211 Professionalism and Ethics in Education 8

TOTAL 8

F. Cross Cutting Courses

Semester I Year 1

Code Name Credits

NSCS 1101 Communication Skills 8

NSDS 1102 Development Studies 8

NSTS 1103* Basics of Technical Skills I 8

NSTS 1104* Basics of Technical Skills II 8

TOTAL 32

Semester II Year 1

Code Name Credits

NSTS 1205 Introductory Statistics 8

NSCT1206 Introduction to Computer 8

TOTAL 16

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BACHELOR OF SCIENCE IN CHEMISTRY

A. Bachelor of Science in Chemistry (1st Year)

Semester I

Code Name Credits

CH 8185 Basic Analytical and Physical Chemistry 10

CH 8186 Water Chemistry 8

CH 8187 Introduction to Theoretical Chemistry 8

HS 8101 Communication Skills 8

CH 8188 Nuclear Chemistry 10

IT 8116 Information and Communication Technology 8

BM 8108 Entrepreneurship 8

DS 8101 Development Studies 8

TOTAL 68

Semester II

Code Name Credits

CH 8189 Chemistry Practical I 8

CH 8190 Introduction to Computational Chemistry 8

CH 8191 Organic Chemistry 12

CH 8192 Inorganic Chemistry 8

CH 8193 Soil Chemistry 8

CH 8194 Methods for Chemical Separation 10

CH 8195 Instrumental Methods in Analytical Chemistry 10

DS 8108 Development Perspectives 6

MS 8127 Limits of Functions and Calculus (Elective) 8

TOTAL 78

B. Bachelor of Science in Chemistry (2nd Year)

Semester I

Code Name Credits

CH 8288 Chemical Thermodynamics 8

CH 8289 Electrochemistry 8

CH 8290 Chemistry of Natural Products 12

CH 8291 Industrial Chemistry 12

CH 8292 Chemistry Practical II 8

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CH 8293 Industrial Practical Training I 12

CH 8294 Solid State Chemistry 8

AS 8306 Food Chemistry and Analysis (Elective) 8

MS 8129 Application of Calculus (Elective) 8

CH 8295 Metal Technology (Elective) 8

TOTAL 92

Semester II

Code Name Credits

CH 8296 Chemistry of Transition Elements 8
CH 8297 Stereochemistry and Aromaticity 12
CH 8298 Organic Reactions and Mechanisms 8
CH 8299 Research Methods 12
CH 82100 Environmental Analytical Chemistry 8
CH 82101 Chemistry practical III 8
CH 82102 Renewable energy technology 8
CH 82103 Organometallic and Catalysis Chemistry (Elective) 8
TOTAL 72

C. Bachelor of Science in Chemistry (3rd Year)

Semester I

Code Name Credits

CH 8388 Chemistry Practical IV 8
CH 8389 Forensic Chemistry 9
CH 8390 Polymer Chemistry 8
CH 8391 Bio inorganics 8
CH 8392 Chemical Kinetics and Catalysis 8
CH 8393 Chemistry Project 12
CH 8394 Industrial Practical Training II 12
CH 8395 Surface and Colloid Chemistry 8
TOTAL 73

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Semester II

Code Name Credits

CH 8396 Chemistry Practical V 8
CH 8397 Spectroscopic Methods in Organic Chemistry 10
CH 8398 Basics of Biotechnology 8
CH 8399 Chemical Speciation Analysis 8
CH 3100 Quality Control and Assurance 8
CH 3101 Quantum Chemistry 8
CH 3102 Organic Synthesis 10
MS 8225 Statistical Inference (Elective) 8
CH 83103 Nanotechnology and Sensors (Elective) 8
TOTAL 76

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8.4.3 THE DEPARTMENT OF MEDICAL SCIENCES AND TECHNOLOGY

Programmes

The Department offers one (1) Programme:

i. Diploma in Biomedical Equipment Engineering

8.4.3.1 LABORATORIES

- i. Biomedical Laboratory
- ii. Biomedical workshop

8.4.3.2 LIST OF STAFF

Head of Department

Dr. Bernadether T. Rugumisa PhD Molecular Sciences (UDSM), MSc. Life Sci & Bioengineering
(Health & Biomedical Sciences (NM-AIST), BSc. Biotech & Lab Sci.
(SUA)

Assistant Lecturers

Mr. Shukurani B. Philip MSc. Clinical Microbiology and Molecular Biology (CUHAS),
BSc.

Medical Laboratory Sciences (CUHAS), Advanced Diploma in Medical
Laboratory Sciences (MUHAS)

Mr. Revocatus J. Mang'ara MSc. Tropical Diseases control (MUHAS), BSc. in
Environmental Health

with Information Technology (Ruaha Catholic University)

Mr. Optatus Mwalongo* MSc. Life Sciences & Bioengineering (Health and Biomedical
Sciences)

Nelson Mandela, BSc. with Education (UDSM)

Mr. Hamisi A. Maonezi* MSc. Biotechnology (Medical specialization), BSc. Molecular
Biology and

Biotechnology (UDSM), Msc. in Biotechnology Wageningen University
– Netherlands.

Mr. Jotham Kimondo* Master of Biomedical Engineering (Uazhong University of
Science and

Technology - China and Biotechnology (SUA), BSc. Electronics and
Telecommunication (St. Joseph Tazania)

Mr. Omar R. Kombo MSc Biomedical Engineering Wuhan University of Technology-
China,

BSc Biomedical Engineering Oran University of Sciences and
Technology, Mohamed Boudiaf -Algeria

Mr. Heribert Kaijage Master of Science in Natural Resources Assessment and
Management

(UDSM), Bachelor of Science in Environmental Health Science (UDSM)

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Tutorial Assistants

Ms. Christina L. Mwabeza* MSc.in Electronics Engineering and Information
Technology (UDSM),

BSc. Computer Engineering (DIT)

Mr. Jackson G. Rusanyu* BSc. Electrical and Electronics Engineering (MUST)

Dr. Jacob Jacob Mlelwa Doctor of Medicine (UDOM)

Dr. Mary Nicholaus Suke* Doctor of Medicine (KCMC)

Dr. Malonja Yona Magaluda* Doctor of Medicine (MUHAS),

Mr. Mussa Samson Tyahso Bachelor in Electrical and Biomedical Engineering (ATC)

Mr. Rebson Johakim Sanga Bachelor in Electrical and Biomedical Engineering (ATC)

Mr. Oscar Punguti* Bachelor of Science in Environmental Health Science (MUHAS)
Instructor II

Mr. Kadoke M. Kadoke* MSc. Telecommunication Engineering (UDOM), BSc.
Electronics and Telecommunication (St. Joseph-Tanzania)

Technicians

Mr. John Mwilenga* Diploma in Biomedical Equipment Engineering (MUST)

Mr. Erick Kanyiki Diploma in Biomedical Equipment Engineering (MUST)

*On Study leave

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8.4.3.3 PROGRAMME COURSES

DIPLOMA IN BIOMEDICAL EQUIPMENT ENGINEERING

A. Diploma in Biomedical Equipment Engineering (1st Year)

Semester 1

Code Name Credits

MS 6134 Basic calculus, Logarithms and Number systems 7

HS 6117 Communication Skills 10

HS 6116 Elements of Development Studies 10

MT 6116 Computer Basics and Word Processing 2

MT 6117 Statics and Dynamics 4

MT 6118 Workshop Technology I 5

MT 6119 Principles of DC Networks 9

MT 6120 Basic Electronics 6

MT 6121 Human anatomy and Physiology 9

MT 6122 Introduction to Biomedical Field, Hospital Safety and Standards 6

TOTAL 68

Semester II

Code

Name Credits

MS 6135 Binomial Theorem, Matrices and Polynomials 7

MT 6123 Workshop Technology II 6

MT 6124 Presentation and Internet 2

MT 6125 Gravitation and Simple Harmonic Motion 3

MT 6126 Basic Technical Drawing 6

MT 6127 Principles of AC Networks 10

MT 6128 Electronic Circuits 8

MT 6129 Basic Laboratory Equipment 6

MT 6130 Basic Theatre Equipment 6

MT 6131 Dental Equipment 6

MT 6132 Industrial Practical Training 10

TOTAL 70

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B. Diploma in Biomedical Equipment Engineering (2nd Year)

Semester I

Semester II

Code Name Credits

MS 6230 Series, Complex numbers and Linear Programming 7

MT 6210 Fluid Mechanics 3

MT 6211 Optician and Dentistry Equipment 9

MT 6212 Laboratory Analyzer equipment 9

MT 6213 Fundamentals of XRAY and CTSCAN 9

MT 6214 Dialysis and Ultrasound technology 9

MT 6215 Digital Electronic II 6

MT 6216 AC Machines 6

MT 6217 Industrial Training 10

TOTAL 68

C. Diploma in Biomedical Equipment Engineering (3rd Year)

Semester I

Code Name Credits

MS 6229 Trigonometry, Coordinate Geometry and Vectors 7

MT 6201 Strength of Materials and Rotational Dynamics 3

MT 6202 Spreadsheet and Database 2

MT 6203 Doctors' Equipment 6

MT 6204 Basic Intensive Care Unit Equipment 6

MT 6205 Patient Monitoring Equipment 9

MT 6206 Theatre Equipment 9

MT 6207 DC Machines 6

MT 6208 Digital electronics I 10

MT 6209 Biomedical Instrumentation 12

TOTAL 70

Code Name Credits

MS 6322 Boolean Algebra and Statistics 7

MT 6301 Electromagnetism 7

MT 6302 Basic Computer Programming 4

MT 6303 Computer Aided design 4

MT 6304 Biomedical Computer Networks and Data Communications 8

MT 6305 Principles of Signal Modulation and Demodulation 9

MT 6306 Principles of Magnetic Resonance Imaging 9

MT 6307 Research methods 10

MT 6308 Microprocessor Technology 12

TOTAL 70

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Semester II

Code Name Credits

MS 6325 Differential Equations and Numerical methods 7

MT 6309 Heat and Thermodynamics 7

MT 6310 Data Structure and file handling 5
MT 6211 Radiotherapy and Lithotripter 10
MT 6312 Medical Device Standards 6
MT 6313 Work Ethics 5
MT 6314 Biomedical Equipment Project 10

TOTAL 50

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8.4.4 DEPARTMENT OF TECHNICAL EDUCATION

Programmes

The Department offers eight (8) programmes as indicated:

- i. Diploma of Technical Education in Mechanical Engineering;
- ii. Diploma of Technical Education in Civil Engineering;
- iii. Diploma of Technical Education in Electrical and Electronics Engineering;
- iv. Diploma of Technical Education in Architectural Technology;
- v. Bachelor of Technical Education in Mechanical Engineering;
- vi. Bachelor of Technical Education in Civil Engineering;
- vii. Bachelor of Technical Education in Electrical and Electronics Engineering;
- viii. Bachelor of Technical Education in Architectural Technology; and

8.4.4.1 LABORATORIES/WORKSHOP

- i. Mechanical Workshop
- ii. Civil workshop
- iii. Architectural Laboratory
- iv. Electrical workshop

8.4.4.2 LIST OF STAFF

Head of Department

Dr. Eenerico Sumbizi PhD of Education in Policy Issue, Master of Education, Administration,

Planning and Policy studies (OUT) and Bachelor of Arts with Education (Economics and Geography),

Lecturer

Dr. Adam Chidyau PhD in Education (Assessment and Evaluation) Mwenge Catholic University (MWECAU), Masters of Education in Educational Assessment and Evaluation – Mwenge Catholic University (MWECAU), Bachelor of Science with Education – Catholic University of East Africa (CUEA) Nairobi.

Assistant Lecturers

Ms. Christer Burchard* MSc. Ed (Education) Aga Khan University, BSc Education UDSM

Ms. Atida Mbingamno* MED (Sc) Education UDSM, BSc. Education UDSM*

Ms. Frola Kayuki* MEMP. (Education) St. Augustine University – Mwanza

Mr. Daliko Mhule* Master of Arts in Education (Mzumbe), Bachelor of Education (Counselling Psychology) (TEKU)*

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Mr. Chacha. O. Matete Master of Education Management and Planning (SAUT),
Bachelor in

Education (History and Geography) (RUCO)

Mr. Majaliwa Jeremiah Master of Arts in Education (UDOM) Bachelor in Policy
Planning and

Management (UDOM)

Mr. Saigilu Lootha Mindey Master of Education in Assessment and Evaluation, MEAE
(SAUT -

JUCO), Bachelor of Education in Psychology (UDOM)

Lola Selele Kamaghe Master of Education in Education Mathematics (The Aga Khan
University

Dar es Salaam, Bed MATHS in Education University of Iringa.

Ms. Agnes Kapinga Master of Arts in Gender studies (UDSM), Bachelor of Arts with
Education

(Kampala University) *

Mr. Matata John. Mbegalo Masters in Education Management and Administration
(UDSM-DUCE),

Bachelor of Arts with Education (UDSM)

Ms. Letisia Richard Byanjweli Masters of Art in Applied Social Psychology (UDSM), BED
Psychology

(TEKU)*

Mr. Castory Wolfram Kayombo Master of Education in Curriculum and Instruction
(MEDCI) -Jordan

University, BA Education (Jordan University)

Mr. Moabu Chandafa* Master of Science Education Science (Mkwawa), BSc Education
(UDSM)

Ms. Miriam G. Kaliwa MSc of Education in Biology (University of Rwanda), BED Science
(Biology) UDSM

Tutorial Assistant

Emmanuel Remitius Msangi Master of Education in Curriculum and Instruction
(MECI) Ruaha Catholic

University – RUCU, Bachelor of Arts with Education (Mkwawa University
College of Education (MUCE)

Ms. Helen Benedicto Kapinga Masters of Arts with Education (MAED) UDSM, Bachelor
of Arts with

Education (BAED) UDSM.

Mr. Ally Salehe Kabelwa Masters of Education in Physical Education and Sport
Sciences (UDSM),

Bachelor of Education in Physical Education and Sports Sciences (UDSM),

DEE Korogwe TTC

Instructors

Ms. Stella Toto Fulgence* MA Ed (Ed)-UDOM; Bed. (Policy Planning Management)
UDOM*

Dr. Leoncia Kibani PhD (education) (UDSM), Master of Education (Science) (UDSM),
Bachelor of Science with Education (UDSM)

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Dr. Mussa Ngonyani PhD. in Education (University of Oslo-Norway), Master of Science
in

Education (University of Groningen, Nethertherlands), Bachelor of
Education in Arts (UDSM)

Mr. Marcus Mwandangi MA Education (Teofilo Kisanji University), Bed MATHS (Teofilo
Kisanji

University), DTEE Klerruu TTC, FTC in Mechanical Engineering DIT,

*Study Leave

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8.4.4.3 PROGRAMME COURSES

DIPLOMA OF TECHNICAL EDUCATION IN MECHANICAL ENGINEERING

A. Diploma of Technical Education in Mechanical Engineering (1st Year)

Semester I

Code Name Credits

TE 6116 Vocational and Technical Education in Tanzania 6

TE 6117 Educational Psychology 6

ME 6116 Engineering Drawing, I 7

ME 6117 Engineering Materials I 5

ME 6118 Automotive Technology I 8

ME 6119 Manufacturing Engineering I 7

MS 6123 Applied Mathematics 6

HS 6117 Communication Skills 6

HS 6116 Elements of Development Studies 6

IT 6117 Fundamental Computer Application 6

TOTAL 63

Semester II

Code Name Credits

TE 6118 Teaching and Learning Methods 8

TE 6119 Professionalism and Ethics in Education 6

ME 6120 Engineering Drawing II 6

ME 6121 Engineering Materials II 5

ME 6122 Automotive Technology II 8

ME 6123 Manufacturing Engineering II 7

ME 6124 Mechanical Engineering Science I 5

BM 6122 Entrepreneurship 5

MS 6124 Applied Mathematics II 5

ME 6208 Industrial Practical Training 10

TOTAL 65

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B. Diploma of Technical Education in Mechanical Engineering (2nd Year)

Semester 1

Code Name Credits

TE 6201 Curriculum Development 6

ME 6201 Computer Aided Drafting I 8

ME 6202 Strength of Materials 5

ME 6203 Automotive Technology III 8

ME 6204 Manufacturing Engineering III 9

ME 6205 Thermodynamics 5

ME 6206 Mechanical Engineering Science II 5

ME 6207 Engineering Measurement and Control 5

EE 6270 Electrical Engineering Science 5

MS 6222 Applied Mathematics III 6

TOTAL 62

Semester II

Code Name Credits

TE 6202 Education Media and Technology 8

TE 6203 Guidance and Counselling 6

ME 6209 Computer Aided Drafting II 8

ME 6210 Auto Electrical System 8

ME 6211 Manufacturing Engineering IV 8

ME 6212 Machine Elements and Design, I 5

ME 6213 Fluids Mechanics 5

MS 6223 Applied Mathematics IV 5

TE 6204 Teaching Practice 10

TOTAL 63

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C. Diploma of Technical Education in Mechanical Engineering (3rd Year)

Semester 1

Code Name Credits

TE 6301 Research Methodology 6

TE 6302 Educational Measurement and Evaluation 8

ME 6301 Machine Elements and Design II 5

ME 6302 Power plant I 5

ME 6303 Refrigeration 9

ME 6304 Environment Management 5

ME 6305 Mechatronics Technology 6

ME 6214 Fundamental of Programmable Logic Controllers 6

EE 6207 Basic Electronics 5

MS 6322 Boolean Algebra and Statistics 5

TOTAL 60

Semester II

Code Name Credits

ME 6309 Machine Elements and Design III 6

ME 6310 Power plant II 5

ME 6311 Air Conditioning 9

ME 6312 Computer Based Manufacturing 7

ME 6313 Workshop Management 6

ME 6314 Industrial Safety and Maintenance 5

ME 6315 Hydraulic and Pneumatic systems 7

ME 6316 Quality Control and Costing Management 5

TE 6303 Project in Education 10

TOTAL 60

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DIPLOMA OF TECHNICAL EDUCATION IN CIVIL ENGINEERING

A. Diploma of Technical Education in Civil Engineering (1st Year)

Semester I

Code Name Credits

TE 6116 Vocational and Technical Education in Tanzania 6

TE 6117 Educational Psychology 6

MS 6128 Advanced Mathematics I 4

NS 6141 Advanced Physics I 4

HS 6117 Communication skills 4

IT 6116 Basic Computer Applications 4

HS 6116 Elements of Development Studies 4

CE 6101 Building construction, I 4

CE 6102 Building Workshop Practice, I 10

CE 6103 Civil Engineering Materials I 9

CE 6104 Introduction to Engineering Drawing 7

CE 6105 Road Construction I 6

TOTAL 68

Semester II

Code Name Credits

TE 6118 Teaching and Learning Methods 7

TE 6119 Professionalism and Ethics 6

MS 6129 Advanced Mathematics II 4

NS 6142 Advanced Physics II 4

IT 6117 Computer Applications 4

BM 6122 Entrepreneurship 4

CE 6106 Building Maintenance, I 6

CE 6107 Building Workshop Practice II 12

CE 6108 Land Surveying, I 6

CE 6109 Road Maintenance I 6

CE 6110 Soil Mechanics I 6

CE 6111 Structural Mechanics I 6

TOTAL 71

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A. Diploma of Technical Education in Civil Engineering (2nd Year)

Semester I

Code Name Credits

TE 6201 Curriculum Development 6

MS 6221 Advanced Mathematics III 4

NS 6221 Advanced Physics III 4

CE 6201 Building construction II 6

CE 6202 Building Design and Drawing 7

CE 6203 Building Workshop Practice III 8

CE 6204 Civil Engineering Materials II 6

CE 6205 Pavement Design and Construction 6

CE 6206 Soil Mechanics II 6

CE 6207 Structural Mechanics II 6

CE 6208 Industrial practical training 10

TOTAL 69

Semester II

Code Name Credits

TE 6202 Educational Media and Technology 8

TE 6203 Guidance and Counselling in Education 6

MS 6225 Advanced Mathematics IV 4

NS 6223 Advanced Physics IV 4

CE 6209 Basics of Technical Report Writing 4

CE 6210 Building Maintenance II 4

CE 6211 Construction Management I 4

CE 6212 Land Surveying II 8

CE 6213 Quantity Surveying, I 4

CE 6214 Reinforced Cement Concrete Design III 6

CE 6215 Road Maintenance II 4

CE 6216 Soil Mechanics III 4

CE 6217 Water Supply 7

TOTAL 60

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B. Diploma of Technical Education in Civil Engineering (3rd Year)

Semester I

Code Name Credits

TE 6302 Educational Measurement and Evaluation 7

TE 6301 Research Methodology 6

CE 6301 Building Construction III 6

CE 6302 Construction management II 6

CE 6303 Fluid Mechanics and Hydraulics 7

CE 6304 Quantity Surveying II 6
CE 6305 Reinforced Cement Concrete Design II 6
CE 6306 Structural Timber Design 7
CE 6307 Project I 8
TE 6204 Teaching Practice 10
TOTAL 69

Semester II

Code Name Credits
CE 6313 Building Construction IV 6
CE 6312 Civil Engineering Materials III 6
CE 6311 Construction Management III 6
CE 6309 Foundation Engineering 7
CE 6310 Reinforced Cement Concrete Design II 6
CE 6315 Structural Steel Design 7
CE 6314 Wastes Management 7
CE 6316 Project II 10
Total 55

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DIPLOMA OF TECHNICAL EDUCATION IN ELECTRICAL AND ELECTRONICS
ENGINEERING

A. Diploma of Technical Education in Electrical and Electronics Engineering (1st Year)
Semester I

Code Name Credits
TE 6116 Vocational and Technical Education in Tanzania 6
TE 6117 Educational Psychology 6
EE 6116 Basics of Electrical Engineering I 5
EE 6117 Basic of Electrical Installation and Maintenance 6
EE 6118 Fundamental of Electrical Materials 6
EE 6119 Electrical Workshop Technology I 8
EE 6120 Technical Drawing, I 6
ET 6116 Basic of Electronics 6
MS 6121 Advanced Mathematics I 6
NS 6139 Physical Science I 6
HS 6117 Communication Skills 6
HS 6116 Elements of Development Studies 6
IT 6116 Introduction to computer 6
TOTAL 79

Semester II

Code Name Credits
TE 6118 Teaching and Learning Methods 8
TE 6119 Professionalism and Ethics in Education 6
ET 6117 Analog Electronics 5
ET 6118 Analog Electronics Lab 7

EE 6121 Basics of Electrical Engineering II 6
EE 6122 Electrical Measurements 6
EE 6123 Technical Drawing II 5
EE 6124 Electrical Workshop Technology II 7
MS 6122 Advanced Mathematics II 6
NS 6145 Physical Science II 6
BM 6122 Entrepreneurship 6
IT 6117 Computer Applications 6
TOTAL 75

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B. Diploma of Technical Education in Electrical and Electronics Engineering (2nd Year) Semester I

Code Name Credits

TE 6201 Curriculum Development 6
EE 6201 Industrial Practical Training I 10
ET 6201 Digital Electronics I 5
EE 6202 DC Machines 6
EE 6203 Domestic Installation Testing and Commission 6
EE 6204 Electrical Equipment 6
EE 6205 Fundamental of Automations I 5
EE 6206 Electrical Measurement Lab 6
EE 6207 Power Plants 5
MS 6221 Advanced Mathematics III 6
CS 6224 Computer Programming Basics 7
TOTAL 68

Semester II

Code Name Credits

TE 6202 Education Media and Technology 8
TE 6203 Guidance and Counselling 6
EE 6208 AUTOCAD 7
EE 6209 Electrical Power Transmission and Distribution 7
ET 6206 Digital Electronics II 7
EE 6210 Fundamental of Automation II 6
EE 6211 Introduction to Engineering Software 7
EE 6212 Static AC Machines 6
EE 6213 Static and Dynamic Machines Control 8
CS 6202 Object Oriented Programming 6
ST 6221 Advanced Mathematics IV 6
TE 6204 Teaching Practice 10
TOTAL 84

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C. Diploma of Technical Education in Electrical and Electronics Engineering (3rd Year)

Semester I

Code Name Credits

TE 6301 Research Methodologies 6
TE 6302 Educational Measurement and Evaluation 8
EE 6301 Industrial Practical Training II 10
EE 6302 Basic of Control System Engineering 6
EE 6303 Basic of Power Protection 6
EE 6304 Electric Drives I 5
ET 6302 Microprocessor and Microcontrollers 7
EE 6305 Motor and Transformer Rewinding 7
EE 6306 Power System Operations and Control 6
EE 6307 Power Electronics 5
EE 6308 Project I 8
TOTAL 74

Semester II

Code Name Credits

TE 6303 Project in Education 10
ET 6317 Basic of Telecommunication Engineering 6
EE 6309 Control Engineering 6
EE 6310 Electric Drives II 6
EE 6311 Electric Installations 6
EE 6312 Induction Motors 6
EE 6313 Power Protection 5
EE 6314 Programmable Logic Controller 7
EE 6315 Synchronous Machines 6
EE 6316 Renewable Energy 6
EE 6317 Project II 10
TOTAL 74

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A. Diploma of Technical Education in Architectural Technology (1st Year)

Semester I

Code Name Credits

TE 6101 Vocational and Technical Education in Tanzania 5.5
TE 6102 Educational Psychology 5.5
AA 6101 Architectural Draughting, I 9.5
AA 6102 Structural Mechanics 5.5
AA 6103 Building Construction & Technology I 5
AA 6105 Building services, I 5.5
AA 6106 Building Materials, I 6
HS 6116 Elements of Development studies 5.5
MS 6126 Advanced Mathematics I 5.5
CS 6102 Basic Computer Application I 5
HS 6117 Communication Skills 5

NS 6138 Advanced Physics I 5.5

TOTAL 69

Semester II

Code Name Credits

TE 6103 Teaching and Learning Methods 7.5

TE 6104 Professionalism and Ethics 5.5

AA 6107 Architectural Draughting II 10

AA 6108 Basics of Structural Design I 5.5

AA 6109 Building Construction and Technology II 5

AA 6110 History & Theory of Architecture I 5

AA 6104 AutoCAD 5.5

MS 6221 Advanced Mathematics II 5.5

CS 6202 Basic Computer Application II 4.5

NS 6143 Advanced Physics II 4

AA 6111 IPT I 10

TOTAL 68

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B. Diploma of Technical Education in Architectural Technology (2nd Year)

Semester I

Code Name Credits

TE 6201 Curriculum development 5.5

AA 6201 Architectural Design I 9.5

AA 6202 Basics of Structural Design II 6.5

AA 6203 Building construction & Technology III 6.5

AA 6204 Building Services II 6

AA 6205 Geometrics I 5.5

AA 6206 Building Materials II 5.5

AA 6207 ArchiCAD 5

ST 6223 Advanced Mathematics III 5

NS 6222 Advanced Physics III 5

TOTAL 60

Semester II

Code Name Credits

TE 6202 Educational media and Technology 7.5

TE 6203 Guidance and Counselling 5.5

TE 6204 Teaching Practice 10

AA 6208 Architectural Design II 11.5

AA 6209 Basics of Structural Design III 6

AA 6210 History & Theory of Architecture II 6

AA 6211 Geometrics II 7

NS 6224 Advanced Physics IV 5

MS 6228 Advanced Mathematics IV 5

AA 6212 IPT II 10

TOTAL 73.5

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C. Diploma of Technical Education in Architectural Technology (3rd Year)

Semester I

Code Name Credits

TE 6301 Research Methodology 7.5

TE 6302 Educational Measurement & Evaluation 7.5

AA 6301 Basics of Structural Design III 6

AA 6302 Building Construction & Technology IV 6

AA 6303 Cost Estimates & Tendering 6

AA 6304 Project I 9.5

AA 6305 Professional Practice I 5

AA 6306 Climatic Design 6

AA 6307 Building services III 6.5

BM 6122 Entrepreneurship 5.5

TOTAL 65.5

Semester II

Code Name Credits

TE 6303 Project in Education 10

AA 6308 Project II 12

AA 6309 Thermal Design & Sonic Environment 8

AA 6310 Professional Practice II 7

AA 6311 Architectural Conservation 8

AA 6312 Building Information Modelling 8

AA 6313 Urban & Housing Development 7

TOTAL 60

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BACHELOR OF TECHNICAL EDUCATION IN MECHANICAL ENGINEERING

A. Bachelor of Technical Education in Mechanical Engineering (1st Year)

Semester I

Code Name Credits

TE 8101

TE 8102

ME 8101

Foundation of Technical Education and Philosophy

Educational Psychology

Engineering Drawing, I

6

8

6

ME 8102

ME 8103

ME 8104

ME 8105

IT 8116

ME 8106

MS 8117

HS 8101

DS 8101

Engineering Materials

Strength of Materials I

Manufacturing Engineering, I

Automotive Engineering, I

Computer Applications

Environmental Engineering

Engineering Mathematics I

Communication Skills

Development Studies

5

5

8

8

5

5

5

5

5

TOTAL

72

Semester II

B. Bachelor of Technical Education in Mechanical Engineering (2nd Year)

Semester I

Code Name Credits

TE 8201 Educational Media and Technology 8

Code Name Credits

TE8103

TE8104

ME 8107

Curriculum development

Teaching and Learning Methods

Engineering Drawing II

6

6

8

ME 8108 Machine Elements and Design, I 5

ME 8109 Manufacturing Engineering II 8

ME 8110 Strength of Materials II 5
ME 8111 Automotive Engineering II 8
ME 8112 Power Production 5
MS 8102 Engineering Mathematics II 5
ME 8106 Industrial Practical Training (IPT) 10
TOTAL 66

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TE 8204 Educational Measurement and Evaluation 8
ME 8201 Computer Aided Drafting I 9
ME 8202 Mechanics of Machines 5
ME 8203 Engineering Thermodynamics 6
ME 8204 Machine Elements and Design II 6
ME 8209 Strength of Materials III 5
ME 8205 Manufacturing Engineering III 8
EE 8270 Fundamental of Electrical Engineering 5
MS 8203 Engineering Mathematics III 5
TOTAL 65

Semester II

Code Name Credits

TE 8203 Guidance and Counselling 6
TE 8202 Teaching Practice I 10
ME 8207 Computer Aided Drafting II 9
ME 8208 Machine Elements and Design III 6
ME 8210 Materials Technology 7
ME 8211 Fluid Mechanics 6
ME 8212 Mechatronics 6
EE 8241 Electrical Machines I 7
MS 8217 Statistics and Numerical analysis 6
TOTAL 63

C. Bachelor of Technical Education in Mechanical Engineering (3rd Year)

Semester I

Code Name Credits

TE 8301 Education Management and Administration 8
TE 8302 Research Methodology 6
ME 8301 Systems Reliability and Plant Maintenance 6
ME 8302 Dynamics of Mechanical Structures 6
ME 8303 Engineering Design 6
ME 8304 Industrial energy Management 6
ME 8305 Metal cutting and Machines Processes 8
EE 8370 Electrical Machines II 7
ME 8311 Engineering Economics 8
ME 8213 Industrial Management 6

CS 8200 Computer Programming 7

TOTAL 74

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Semester II

Code Name Credits

TE 8303 Sociology of Education 6

TE 8304 Teaching Practice II 10

ME 8309 Renewable Energy Technologies 6

ME 8310 Industrial Automation 7

ME 8312 Control Systems Engineering 6

ME 8313 Computer Aided Engineering (CAE) 8

ME 8314 Engineering Operations Management 6

ME 8315 Heat Transfer 6

CS 8315 Data Structure and Algorithms 6

TOTAL 61

D. Bachelor of Technical Education in Mechanical Engineering (4th Year)

Semester I

Code Name Credits

TE 8401 Professionalism and Ethics in Teaching. 6

ME 8401 Fluid Power and Control 6

ME 8402 Power Plants 6

ME 8403 Material Handling Design 6

ME 8404 Turbo Machinery 6

ME 8405 Production Engineering 7

ME 8406 Refrigeration System 8

IT 8217 Computer Networking 6

CS 8406 Object Oriented Programming 7

BM 8108 Entrepreneurship 6

TOTAL 64

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Semester II

Code Name Credits

TE 8402 Project in Education 10

ME 8409 Quality Assurance and Control 6

ME 8410 Engineering Ethics and Professional Conduct 5

ME 8411 Automation and Robotics 7

ME 8412 Engine Design Technology 6

ME 8413 Foundry Technology 9

ME 8414 Air Conditioning System 8

ME 8415 Computer Aided Manufacturing (CAM) 7

ME 8416 Industrial Supervisor Skill and leadership 5

TOTAL 63

BACHELOR OF TECHNICAL EDUCATION IN CIVIL ENGINEERING

A. Bachelor of Technical Education in Civil Engineering (1st Year)

Semester I

Code Course Name Credits

TE 8101 Philosophy of Technical Education 6

TE 8102 Educational Psychology 7

MS 8101 Linear Algebra and Calculus 6

HS 8101 Communication Skills 6

CS 8104 Programming Concepts 9

DS 8101 Development Studies 6

BM 8108 Entrepreneurship Education 6

CE 8101 Engineering Drawing, I 9

CE 8102 Construction Technology I 9

CE 8103 Workshop practice 7

CE 8104 Structural Mechanics I 7

Total 78

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First Year - Semester II

Code Course Name Credits

TE 8103 Curriculum Development and Principles 6

TE 8104 Teaching Methods 6

MS 8102 Advanced Calculus 6

DS 8108 Development Perspectives 5

CS 8110 Advanced C Programming 9

CE 8105 Engineering Drawing II 8

CE 8106 Construction Technology II 7

CE 8107 Building Construction 8

CE 8108 Mechanics of Structures 6

CE 8109 Land Survey 9

Total 70

B. Bachelor of Technical Education in Civil Engineering (2nd Year)

Semester I

Code Course Name Credits

TE 8201 Educational Media and Technology 7

TE 8202 Educational Measurement and Evaluation 7

MS 8201 Differential Equations 6

CE 8201 Soil Mechanics I 6

CE 8102 Civil Engineering Materials. -I 6

CE 8203 Fluid Mechanics 6

CE 8204 Engineering Survey I 7

CE 8205 Road Construction and Maintenance 9

CE 8206 Concrete Technology 6

CE 8207 Structural Analysis I 6

CE 8116 Industrial Practical Training 10

Total 76

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Semester II

Code Course Name Credits

TE 8203 Guidance and Counselling Psychology 6

MS 8303 Statistics and Numeric Analysis 6

CE 8208 Engineering Survey II 8

CE 8209 Fluid Mechanics and Hydraulics 8

CE 8210 Engineering Geology 6

CE 8211 Civil Engineering Materials. -II 8

CE 8212 Soil Mechanics II 6

CE 8213 Structural Analysis II 7

CE 8214 Building Planning and Drawing 6

Total 61

C. Bachelor of Technical Education in Civil Engineering (3rd Year)

Semester I

Code Course Name Credits

TE 8301 Educational Management and Administration 7

CE 8301 Quantity Survey I 7

CE 8302 Geometric Design and Traffic Engineering 9

CE 8303 Reinforced Concrete Design and Detailing I 8

CE 8304 Foundation Engineering 8

CE 8305 Highway Engineering Materials 6

CE 8306 Construction Management 7

CE 8307 Engineering Hydrology 6

TE 8204 Teaching Practice I 8

Total 66

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Semester II

Code Course Name Credits

TE 8303 Sociology of Education 5

CE 8308 Building Services 6

CE 8309 Quantity Surveying II 7

CE 8310 Reinforced Concrete Design and Detailing II 8

CE 8311 Water Supply Engineering 6

CE 8312 Contract Planning and Administration 9

CE 8313 Pavement Design and Construction 6

CE 8314 Research Methodology 7

CE 8315 Construction of Multi-Storey Structures 7

Total 61

D. Bachelor of Technical Education in Civil Engineering (4th Year)

Semester I

Code Course Name Credits

TE 8401 Professionalism and Ethics in teaching 6

CE 8401 Engineering Economics 6

CE 8402 Structural Steel Design 6

CE 8403 Waste Water Management 6

CE 8404 Pavement Maintenance 6

CE 8405 Bridge Design and Construction 6

CE 8406 Pre-Stressed Concrete Design 6

CE 8407 Irrigation Engineering 6

CE 8408 Project I 18

TE 8304 Teaching practice II 8

Total 62

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Semester II

Code Course Name Credits

CE 8409 Design of Masonry and Retaining Structures 6

CE 8410 Structural Timber Design 6

CE 8411 Solid Waste Management 6

CE 8412 Industrial Building Construction 6

CE 8413 Hydraulic Structures 6

CE 8414 Transportation Engineering 6

CE 8415 Water Resources Management 6

CE 8416 Project II 18

CE 8216 Industrial Practical Training II 10

Total 60

BACHELOR OF TECHNICAL EDUCATION IN ARCHITECTURAL

Semester 1 year 1

Course Code Course Name Credits

HS 8101 Communication Skills 6

DS 8101 Development Studies 5

MS 8125 Calculus, Statistics and Coordinate geometry 5

BM 8108 Entrepreneurship 5

AA 8101 Architectural Draughting, I 10

AA 8102 Building Construction, I 6

AA 8103 Basics of Architectural Design 5

AA 8104 History of Architecture I 5

AA 8105 Building Materials I 5

AA 8106 Mini- Industrial Practical Training I 3

TE 8101 Foundation of Technical Education and Philosophy 6

TE 8102 Education Psychology 7

Total 68

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Semester 2 year 1

Course Code Course Name Credits

AA 8104 Structural Mechanics 5

AA 8108 Architectural Draughting II 10

AA 8109 Building Construction II 6

AA 8110 Principles of Architectural Design 5

AA 8111 History of Architecture II 5

AA 8112 Building material II 6

AA 8113 Construction Surveying 7

AA 8114 Industrial Practical Training (IPT) 7

TE 8103 Curriculum Development 6

TE 8104 Teaching Methods 6

Total 63

Semester 1 year 2

Course Code Course Name Credits

AA 8201 Design Studio I 12

AA 8202 Building construction & technology I 6

AA 8203 Material Science 6

AA 8204 Design Theories I 6

AA 8205 History of Architecture III 5

AA 8206 Services & Installations I 5

AA 8207 Building Structures, I 5

AA 8208 Urban Design 5

AA 8209 Mini- Industrial Practical Training II 3

TE 8201 Education Media and Technology 7

TE 8202 Education Measurement and Evaluation 7

Total 67

Semester 2 year 2

Course Code Course Name Credits

AA 8210 Design Studio II 10

AA 8211 Building Construction & Technology II 6

AA 8212 Product Manufacture Technology I 5

AA 8213 Design Theories II 6

AA 8214 Building Renovation and Maintenance I 5

AA 8215 Services and Installation II 5

AA 8216 Building Structures II 5

AA 8217 Advanced CAD 5

AA 8218 Industrial Practical Training (IPT) 7

TE 8203 Guidance and counselling 6

TE 8204 Teaching Practice I 8

Total 68

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Semester 1 year 3

Course Code Course Name Credits

AA 8301 Project I 10

AA 8302 Professional Practice & Management I 6

AA 8303 Building Construction and Technology III 7

AA 8304 Simulation Technology I 7

AA 8305 Product Manufacture Technology II 5

AA 8306 Alternative Energy Design 5

AA 8307 Environmental control & sustainability I 5

AA 8308 Building Renovation and Maintenance II 5

AA 8309 Mini- Industrial Practical Training 3

TE 8301 Education Management and Administration 7

TE 8302 Research Methodology 6

Total 66

Semester 2 year 3

Course Code Course Name Credits

AA 8310 Project II 8

AA 8311 Construction Economics I 5

AA 8312 Professional Practice & Management II 5

AA 8313 Structural Analysis and Design I 5

AA 8314 Product Manufacture Technology III 5

AA 8315 Simulation technology II 6

AA 8316 Environmental control & sustainability II 5

AA 8317 Landscape technology 5

AA 8318 Conservation technology 5

AA 8319 Interior design 5

AA 8320 Industrial Practical Training (IPT) 7

TE 8303 Sociology of Education 5

TE 8304 Teaching practice II 8

Total 74

Semester 1 year 4

Course Code Course Name Credits

AA 8401 Project part I 24

AA 8402 Structural Analysis and Design II 6

AA 8403 Disaster Management 6

AA 8404 Services & Installations III 6

AA 8405 Professional Practice & Management III 6

TE 8401 Professionalism and Ethics 6

Total 54

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Semester 2 year 4

Course Code Course Name Credits

AA 8407 Comprehensive Design Project 50

Total 50

BACHELOR OF TECHNICAL EDUCATION IN ELECTRICAL AND ELECTRONICS
ENGINEERING

Semester I First Year

Course Code Course Name Credits

TE 8101 Foundation of Technical Education and Philosophy 6

TE 8102 Educational Psychology 6

EE 8101 Fundamentals of Electrical Measurements 4

EE 8102 Fundamentals of Electronics 4

IT 8116 Computer Application 6

EE 8103 Basics of Workshop Technology and Practice 6

ME 8176 Fundamentals of Technical Drawing 4

EE 8104 Basics of Electrical Engineering 4

EE 8105 Electrical Installation and Safety 4

MS 8121 Algebra 4

HS 8101 Communication Skills 6

DS 8101 Development Studies 6

BM 8108 Entrepreneurship 6

Total 66

Semester 2 First Year

Course Code Course Name Credits

TE 8103 Curriculum Development 6

TE 8104 Teaching and Learning Methods 6

EE 8106 Fundamentals of Electronics Devices 6

EE 8107 Fundamental of Electrical Power Systems 5

EE 8108 Fundamental of Electrical Machines 7

IT 8117 Computer Networking 5

EE 8109 Workshop Technology and Practice 6

ME 8177 Technical Drawing 5

EE 8110 Electrical Maintenance 5

EE 8111 Basics of Control Engineering 6

MS 8122 Advanced Calculus 4

DS 8108 Development Perspectives 6

Total Credits 67

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Semester 1 Second Year

Course Code Course Name Credits

TE 8201 Educational Media and Technology 5

TE 8202 Educational Measurement and Evaluation 5

EE 8201 Industrial Practical Training 1 8

MS 8221 Differential Equations 5

EE 8202 Electrical Network Analysis 6

ME 8276 Engineering Drawing 4

EE 8203 Electrical Measurements and Instrumentation 6
EE 8204 Fundamentals of Analogue Electronics 6
EE 8205 Basics of Engineering Electromagnetic 6
ME 8277 Fundamentals of Engineering Mechanics 5
EE 8206 Power Plants 4
EE 8207 Engineering Software 4

Total Credits 64

Semester 2 Second Year

Course Code Course Name Credits

TE 8203 Guidance and Counselling
TE 8204 Teaching Practice I 7
MS 8222 Numerical Analysis and Statistics 6
EE 8208 Electrical Circuits Analysis 6
ME 8278 Computer Aided Drafting 4
EE 8210 Basics of Power Systems 4
EE 8212 Analogue Electronics 6
EE 8213 Engineering Electromagnetic 6
ME 8278 Engineering Thermodynamics 6
EE 8215 Electrical Engineering Materials 6
EE 8216 Basics of Computer System Engineering 6
CS 8204 Computer Programming 4

Total Credits 66

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Semester 1 Third Year

Course Code Course Name Credits

TE 8301 Education Management and Administration 5
TE 8302 Research Methodology 5
EE 8301 Industrial Practical Training 2 7
EE 8302 DC Electrical Machines 6
EE 8303 Modelling in Control Systems Engineering 8
EE 8211 Electrical Power Transmission and Distribution 8
EE 8305 Basics of Power Electronics 6
EE 8306 Fundamental of Digital Electronics 7
IT 8317 Object Oriented Programming 6
EE 8308 Basics of Analogue Telecommunication 5

Total Credits 63

Semester 2 Third Year

Course Code Course Name Credits

TE 8303 Sociology of Education 6
TE 8304 Teaching Practice II 7
EE 8309 Environmental Engineering Management 4
EE 8310 3-Phase AC Machines 5

EE 8304 Electrical Power Systems Analysis 5
EE 8311 Control System Engineering Analysis 5
EE 8312 Microprocessor 6
EE 8314 Power Electronics Circuits 5
EE 8315 Digital Electronics 5
EE 8316 Basics of Digital Telecommunication 5
EE 8317 Electrical Safety and Maintenance 6
EE 8318 Research Methodology 6
Total 65

Semester 1 Fourth Year

Course Code	Course Name	Credits
TE 8401	Professionalism and Ethics in Teaching.	6
EE 8401	Industrial Practical Training	3 7
EE 8402	3- Phase AC Synchronous Machines	8
EE 8403	Digital Control System Engineering	6
EE 8404	Programmable Logic Controller	6
EE 8315	Electrical Power Systems Dynamics	9
EE 8406	Power Electronics Converters	6
EE 8407	Engineering Operation Management	6
EE 8408	Project I	10
Total		64

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Semester 2 Fourth Year

Course Code	Course Name	Credits
TE 8402	Project in Education	7
EE 8409	Laws for Engineers	6
EE 8410	Electrical Drives	7
EE 8411	Digital Systems Engineering	6
EE 8412	High Voltage Engineering	8
EE 8413	Engineering Economic	6
EE 8414	Switchgear and Protection Engineering	6
EE 8415	Renewable Energy Technologies (RE)	6
EE 8416	Project II	12
Total Credits		64

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8.4.5 THE DEPARTMENT OF EARTH SCIENCES

Programmes

The Department offers (1) Programme:

i. Bachelor of Science in Natural Resources Conservation

8.4.5.1 LABORATORIES AND UNITS

- i. Biology Laboratory
- ii. Animal unit

8.4.5.2 LIST OF STAFF

(Head of Department)

Dr. Philipina F. Shayo PhD (Biodiversity and Ecosystem Management) (Nelson Mandela African

Institute of Science and Technology); MSc. Environmental Management (Natural Resources Management) (The University of Queensland, Australia); BSc. Forestry (Sokoine University of Agriculture, Morogoro); Diploma. Forestry (FTI, Olmotonyi)

Lecturers

Dr. Philipina F. Shayo PhD (Biodiversity and Ecosystem Management) (Nelson Mandela African

Institute of Science and Technology); MSc. Environmental Management (Natural Resources Management) (The University of Queensland, Australia); BSc. Forestry (Sokoine University of Agriculture, Morogoro); Diploma in Forestry (FTI, Olmotonyi)

Dr. Hezron Mwakabona PhD. Chemical Engineering (KU Leuven, Belgium); MSc. Environmental Science

and Engineering (NM-AIST); BSc. Edu. Chemistry/Biology (UDSM)

Dr. Fredrick Ojija PhD Life Science & Bioengineering (Biodiversity & Ecosystems Management)

(NM-AIST), MSc. (Vrije University of Brussels), BSc Wildlife (UDSM)

Assistant Lecturers

*Mr. Matungwa William MSc. Agric. (Environmental Quality Sciences) (The Hebrew University of

Jerusalem, Israel-HUJI), BSc. in Environmental Sciences and Management (SUA)

*Mr. Christopher A. Mgimba MIEM (UDSM), BSc. Ed (UDSM), Certificate in Biogas Hygiene Technology and

Facilities in Developing Countries (BIOMA in PRC)

*Mr. Mubashiru A. Kakurwa Master in Integrated Environmental Management -MIEM (UDSM); BSc.

Chemistry & Zoology (Islamic University in Uganda)

*Mr. Phenson Justine MSc. Agr. (Environmental Quality Science) (Hebrew University of Jerusalem,

Israel); BSc. Chemistry (UDOM)

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*Mr. Azaria L. Stephano MSc. Agr. (Environmental Quality Science) (Hebrew University of Jerusalem,

Israel); BSc. Chemistry (UDOM)

*Mr. Ndaki M. Manyanza MSc. Biodiversity Conservation (UDOM); BSc. Biology (UDOM)

Mr. Emmanuel Supuku M.A Natural Resource Assessment and Management (OUT); B.A. Education

(OUT)

Ms. Everlyn Swai MSc. Environmental and Natural Resource Economics (SUA); BSc. Wildlife

Management and Conservation (SUA)

Ms. Farida Mayowela MSc. Ecosystem Services and Management (SUA); BSc. Wildlife Management

(SUA); Diploma. Aquaculture (Mbeganani Fisheries Development Center)

*Ms. Hildegard R. Kasambala MSc. Environmental Science, BSc. Education (UDSM-DUCE)

*Mr. Gisandu K. Malunguja MSc. Biodiversity Conservation (UDOM), BSc. Ed Biology (UDOM)

Ms. Julieth Joseph Balilemwa MSc. Land and Water Management (Kenyata University, Kenya); BSc.

Environmental Science and Management (SUA)

Mr. Amani Jarafu Simbeye MSc. Natural Resource Assessment and Management (UDSM); B.A. Education –

Geography (UDSM)

Tutorial Assistants

Ms. Suniva S. Aligonza BSc. in Botanical Sciences (UDSM)

*On study leave

BACHELOR OF SCIENCE IN NATURAL RESOURCES CONSERVATION

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A. Bachelor of Science in Natural Resources Conservation (1st Year)

Semester I

Core Courses

Course Code Name Credits

NS 8151 Invertebrate Zoology 8

NS 8152 Introductory Botany 8

NS 8153 Biodiversity Conservation 8

NS 8154 Natural Resource Management 8

NS 8155 Introduction to Genetics 8

HS 8101 Communication Skills 9

DS 8108 Development Perspectives 6

BM 8108 Entrepreneurship 9

Total 64

Elective Courses

Course Code Name Credits

NS 8156 Plant Ecology and Phytogeography 6

NS 8157 Tourism and Leisure 6

NS 8158 Wildlife Diseases 6

Total 18

Semester II

Core courses

Course Code Name Credits

NS 8159 Chordate Zoology 8
NS 8160 Ecology 8
NS 8161 Evolutionary Botany 8
NS 8162 Biostatistics I 8
NS 8163 Biochemistry 8
NS 8164 Parasitology 8
IT 8116 Information and Communication Technology 8
Total 56

Elective courses

Course Code Name Credits

NS 8165 Fundamentals of Microbiology 6
NS 8166 Principles of Land Use Planning 6
NS 8167 Ichthyology 6
Total 18

B. Bachelor of Science in Natural Resources Conservation (2nd Year)

Semester I

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Core courses

Course Code Name Credits

NS 8251 Mammalian Biology 8
NS 8252 Vertebrate Anatomy & Physiology 8
NS 8253 Conservation Biology 8
NS 8254 Nutrition in Wild Mammals 8
NS 8255 Conservation of Wetlands 8
NS 8256 Aquatic Sciences 8
NS 8257 Entomology 8

Total 56

Elective courses

Course Code Name Credits

NS 8258 Management of Wildlife in Captivity 6
NS 8259 Developmental Biology 6
NS 8260 Tourism and Recreation Management 6
NS 8261 Herpetology 6

Total 24

Semester II

Core courses

Course Code Course name Credits

NS 8262 Research Methods 8
NS 8263 Range and Fire Ecology 8
NS 8264 Animal Behaviour 8
NS 8265 Remote Sensing and GIS 8
NS 8266 Field Practical Training 10
NS 8267 Natural Resources Economics 8

NS 8268 Climate Change 8

IT 8215 Computing Applications 8

Total 66

Elective courses

Course Code Course name Credits

NS 8269 Analysis and Utilization of Wildlife Populations 6

NS 8270 Taxonomy of Higher Plants 6

NS 8271 Ornithology 6

NS 8272 Biological Impact Assessment 6

Total 24

C. Bachelor of Science in Natural Resources Conservation (3rd Year)

Semester I

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Core course

Course Code Name Credits

NS 8351 Environmental Science 8

NS 8352 Governance in Natural Resources Conservation 8

NS 8353 Criminology and Wildlife Law Enforcement 8

NS 8354 Coastal and Marine Ecosystems 8

NS 8355 Aquatic Biology Field Course 8

NS 8356 Terrestrial Biology Field Course 8

NS 8357 Research Project I 8

Total 56

Elective Courses

Course Code Name Credits

NS 8358 Community-based Conservation and Extension 6

NS 8359 Principles of Management and Administration 6

NS 8360 Environmental Physiology 6

Total 18

Semester II

Core Courses

Course Code Course name Credits

NS 8361 Biostatistics II 8

NS 8362 Environmental Impact Assessment 8

NS 8363 Research Project II 8

NS 8364 Evolutionary Zoology 8

NS 8365 Contemporary Issues in Natural Resource Conservation 8

NS 8366 Ecological Modelling 8

NS 8367 Introduction to Soil Science 8

Total 56

Elective Courses

Course Code Course name Credits

NS 8368 Biogeography 6

NS 8369 Introduction to Tourism Marketing 6
NS 8370 Ecology and Utilisation of Natural Resources 6

Total 18

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BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY

A. Bachelor of Science in Environmental Science and Technology (1st Year)

Semester I

Core Courses

Course

Code

Name Credits

NS 8199 Introduction to Environmental Science 8

NS 8116 Information and Communication Technology 8

NS 81100 Chemical Laboratory Techniques 8

NS 81101 Plant Ecology and Phytogeography 6

HS 8101 Communication Skills 8

NS 81102 General chemistry 8

BM 8108

DS 8101

Entrepreneurship

Development Studies

8

8

Total 62

Semester II

Core courses

Course Code Name Credits

NS 81103 Climate Change and Variability 10

NS 81104 Biodiversity Conservation 8

NS 81106 Occupational Health and Safety 8

NS 81107 Environmental Physics 8

NS 81108 Environmental Chemistry 8

NS 81109 Environmental Microbiology 8

NS 81110 Entrepreneurship Skills for Environmental Technologists I 10

Total 60

Elective courses

Course Code Name Credits

NS 81105 Introduction to Soil Science 8

Total 8

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B. Bachelor of Science in Environmental Science and Technology (2nd Year)

Semester I

Core courses

Course Code Name Credits

NS 82106 Industrial Practical Training 12

NS 82107 Environmental Toxicology and Contaminants 8

NS 82108 Solid waste Management Technologies 10

NS 82109 Forest Technology 8

NS 82110 Environmental Biotechnology 8

NS 8256 Entrepreneurship Skills for Environmental Technologists II 10

NS 8257 Water Treatment and Wastewater Management 8

Total 64

Semester II

Core courses

Course Code Course name Credits

NS 82113 Atmospheric Physics 6

NS 82114 Instrumental methods in analytical Chemistry 8

NS 82115 Biostatistics I 8

NS 82116 Natural Resources Management 6

NS 82117 Environmental Restoration and Remediation Technologies 6

NS 82118 Research Methods 6

NS 82119 Environmental Sampling and Analysis 8

IT 82120

NS 82121

NS 82122

Atmospheric Chemistry

Remote Sensing and GIS

Entrepreneurship Skills for Environmental Technologists II

6

6

8

Total 68

C. Bachelor of Science in Environmental Science and Technology (3rd Year)

Semester I

Core courses

Course Code Name Credits

NS 83106 Oceanography and Limnology 8

NS 83107 Natural Disaster Management 8

NS 83108 Project Planning and Management 6

NS 83109 Industrial Practical Training II 12

NS 83110 Mine Waste Management Technologies 8

NS 83111 Urban Water, Sanitation and Hygiene 8

NS 83112 Hazardous Waste Management Technologies 8

NS 83113 Research Project I 8

Total 64

Semester II

Core courses

Course Code Name Credits

NS 83114 Environmental Impact and Risk Assessment 8

NS 83115 Environmental Economics 8

NS 83116 Environmental Law & Regulation 8

NS 83117 Industrial Practical Training III 12

NS 83118 Environmental Planning 8

NS 83119 Chemistry of Natural Products 8

NS 83120 Quality Control & Assurance 6

NS 83121 Research Project II 8

Total 64

8.4.6 THE DEPARTMENT OF MATHEMATICS AND STATISTICS

8.4.5.1 LIST OF STAFF

(Head of Department)

Dr. Isack E. Kibona PhD Applied Maths (Central China Normal University), MSc. Maths Modelling (UDSM), BSc. Ed (UDSM)

Lecturers

Dr. Mlyashimbi Helikumi PhD Applied Maths and Computational Sciences (NMAIST), MSc. Maths

Modelling (UDSM), B.ED Science (UDSM)

Dr. Lukas W. Mrimi PhD Mathematics, UDSM , M.Sc. Mathematics, UDOM, B.Sc. Ed. Physics and Mathematics, Bugema University, Uganda

Assistant Lecturers

Mr. Alanus E. Mapunda MSc. Maths Modelling (UDSM), BSc. Ed (UDSM)

Ms. Beatha J. Ngonyani MSc. Maths Modelling (UDSM), BSc. Ed (UDSM)

Mr. Bushen G. Dome MSc. Maths (NM-AIST); B.Ed. Math (TEKU)

Mr. Francis J. Kita

Master of Official Statistics (EASTC); B.Sc. Education (Mwenge University)*

Mr. Gideon E. Rwabona MSc. Maths (AIMS-Tanzania), B.Ed. Math (TEKU)*

Mr. Jacob O. Lyimo MSc. Maths Modelling (UDSM), BSc. Ed (DUCE)

Mr. Justin T. Kisakali MSc. Applied Maths (NM - AIST), BA. ED.(STEMMUCO)

Mr. Jeremiah J. Ruhere MSc. Ed (UDSM); B.Ed (MU).

Mr. Joseph N. Lutera MSc. Maths-AIMS; BSc. Ed-UDSM*

Mr. Musa F. Juma M.Sc. Maths (AIMS), B.Sc. B.Sc. Ed. (SUA)

Mr. Lyimo S. Mhagama M.Sc. Maths (Mysore-India), BSc. Ed (UDSM)*

Mr. Mohamed H. Mohamed M.Sc. Maths Sc. (AIMS-Tanzania), BSc. Maths (UDOM)

Ms Tatu S. Irunde M.Ed. Maths (Aga Khan), B.Sc. Ed. St. John University, Dip Sec Ed. MoTCO

Mr. Traziasi Herman M. Sc. Maths (AIMS-Tanzania); BSc.Ed (UDSM)*

Ms. Violet G. Saria M. Sc. Maths (Nairobi Univ.), BSc.Ed (UDSM)
Mr. Yasin K. Kowa MSc. Maths (NM-AIST); B.Ed. Math (TEKU)
Mr. Justin Kisakali M.Sc. Applied Maths & Computational Science (NM-AIST),
B.A. with Education (STEMMUCO – Mtwara)
Mr. Kasmiri John Shila M.Sc. Mathematics (UDOM), BSc.Ed (SUA), Dip.Ed (Butimba TTC)
Tutorial Assistant
Ms. Faraja O. Nelusigwa B.A. Statistics (UDSM).
Mr. Sadamu M. Hassani BSc. Maths & Statistics (UB)*
Mr. Salim Msalilwa BSc. Applied Statistics (MU)
Instructor I
Mr. Paulo J. Ngayekamwe M.Sc. Maths (Mangalore Univ. India), BSc. Ed. (UDSM)
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8.5 COLLEGE OF HUMANITIES AND BUSINESS STUDIES (CoHBS)

8.5.1 DEPARTMENT OF BUSINESS MANAGEMENT

Programmes

The Department offers Seven (7) programmes:

- i. Certificate in Business Administration
- ii. Certificate in Agribusiness with Technology
- iii. Diploma in Business Administration
- iv. Diploma in Marketing and Entrepreneurship
- v. Diploma in Accounting and Finance
- vi. Bachelor of Business Administration (3 years programme) with the following specializations:
 - Accounting and Finance
 - Procurement and Supply Chain Management
 - Marketing and Entrepreneurship
 - Human Resources Management
- vii. Bachelor of Agribusiness Management and Technology

8.5.1.1 LIST OF STAFF

(Head of Department)

Dr. Lazaro E. Kagata PhD (SUA), MSc (Development Policy) (Mzumbe), BSc (Environmental

Sciences and Management) (SUA), BSc (Education) (UDSM)

Associate Professor

Prof. Asheri M. Mwidege PhD (SUA); MA Econ. BSc. Ed. (UDSM), Dip. In Ed.(Mkwawa)

Senior Lecturers

Dr. Vicent Kipene PhD (SUA); MBA (SUA), BSc. Agr. Ed (SUA), Dip Ed. (Monduli)

Dr. Emmanuel Tonya PhD (OUT), B. Com-Marketing, MBA –Marketing (OUT)

Lecturers

Dr. Lulu Luflenge PhD. (PJ TSAU); MA (Rural Development) (SUA); BSc (Home Economics and Human Nutrition) (SUA)

Dr. Hadija Mohamed Matimbwa PhD. in Human Resources Management (Mzumbe University), MBA in

Human Resources Management (Ruaha Catholic University), Bachelor of
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Human Home Economics and Nutrition (SUA) and is pursuing Bachelor of
Human Resources Management (OUT)

Dr. Ibrahim Kadigi PhD in Agricultural Economics (SUA), MSc Agricultural Economics
(SUA), BSc in Information and Communication Technology (Mzumbe
University)

Dr. Yohana J. Sesabo PhD in Innovation Management (Mzumbe), MBA (Mzumbe); BBA
(Marketing) (MZUMBE)

Dr. Ukende Kingu PhD in Management (UDOM), MBA (UDSM), BSc. Food Science &
Tech (SUA).

Mr. Abbas Y. Sanga* MARD (SUA); Bed (UDSM); Accounting technician certificate (DSA)

Ms. Herieth J. Rogath* MSc (Industrial Logistics) (Molde, Norway); MSc International
Trade

(UDSM); BSc (Urban and Regional Planning) (UCLAS)

Assistant Lecturers

Mr. Phillipo A. Magembe* MBA-Corporate Management (Mzumbe); Advanced
Diploma in

Accountancy (TIA)

Mr. Galus A. Kitapankwa* MEED (UDSM), BEd. Sc (UDSM)

Mr. Said M. Msangi* MBA (UDSM), BA (UDSM)

Ms. Albentina Leonard* MBA (Finance & Banking) Mzumbe, BA.Ed (UDSM)

Mr. Evans J. Lupenza MBA (OUT), B. Com (UDSM), DACA, (Moshi Coop. College).

Mr. John F. Mogha MBA-Corporate Management (Mzumbe); BSc (Agricultural
Education

and Extension) (SUA), Diploma in Education (Physics and Mathematics)

Mr. Ibrahim Mwasyeba* MBA-Corporate Management (Mzumbe); Advanced Diploma
in

Accountancy (IAA)

Mr. Stephano Matiku* Master Degree in Business Management (Moshi Co-operative
University), BBA (MUST)

Mr. Justus S. Massawe* MSc.PSCM (Mzumbe), CPSP (T), 2014, BA (Procurement and
Supply

Management) (MUCCoBS)

Mr. Emmanuel Sanga MBA (HRM) (TEKU), Bachelor of Public Administration (HRM)
(Mzumbe)

Ms. Fatuma M. Mwinyange MBA (UDOM), Bachelor of Education with Mathematics
(Tumaini

University)

Mr. Nickson Severian Kahigi* MSc. Agricultural Economics (SUA), BSc Agricultural
Economics and

Agribusiness (SUA)

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Ms. Helen Samwel Sese MSc. Agricultural and Applied Economics (SUA, Pretoria University of

South Africa), BSc. Agricultural Economics and Agribusiness (SUA).

Mr. Brown Claus Mwasyeba MBA (Accounting and Finance) Ruaha Catholic University; BBA

(Accounting and Finance) Tumaini University-Iringa

CPA Evetha Dickson Kisanga MBA (Finance) SAUT-Mwanza; Advanced Diploma in Accountancy

(SAUT); Certified Professional Accountant

CPA Naomi R. Nyambo MBA (Accounting and Finance (Mzumbe) ,BAF (Mzumbe)

Ms Shukuru Sanga MBA in Marketing (Mzumbe), BBA (Marketing and Entrepreneurship)

(MUST), Diploma in Business

Ms. Adventina Wigenge Masters in Human Resources Management (OPEN), Bachelor of Human

Resources Management (OPEN)

Tutorial Assistant

Mr. Ezekia M. Laiton* BBA with Education (Arusha University) Administration (MUST)

Mr. Allen Temba Bachelor of Procurement and Logistic Management (Tanzania Institute of

Accountancy)

Mr.Willy Innocent Bachelor of Human Resource Management (OUT)

Ms. Beatrice Samagwa Bachelor of Accounting and Finance (Mzumbe University) Instructor

Grace Julius Mosha MBA (TEKU), PGD (Regional Planning) (IRDP), Advanced Diploma (Business Administration) (CBE).

* On study leave

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CERTIFICATE IN BUSINESS ADMINISTRATION

Semester I

CREDITS

MS 6125 Fundamental Business Mathematics 6

BM 6101 Records Management 10

BM 6102 Elementary Economics 10

HS 6101 Basic Communication Skills 10

IT 6128 Basic Computer Skills 9

BM 6103 Basic Procurement and Supply 10

BM 6104 Basics of Customer Care and Public Relations 10

TOTAL 65

Semester II

CREDITS

BM 6105 Basics of Entrepreneurship 10

BM 6106 Basics of Service Marketing 10
BM 6107 Elements of Commerce 10
BM 6108 Principles of Salesmanship 10
BM 6109 Basic Booking-keeping 10
BM 6110 Basics of Consumer Behaviour 10
BM 6111 Field Practical Training 8

TOTAL 68

CERTIFICATE IN AGRIBUSINESS WITH TECHNOLOGY

Semester I

CREDITS

AGT 6101 Introduction to Agribusiness 10
MS 6125 Fundamental Business Mathematics 6
AGT 6102 Elementary Agro-Entrepreneurship 10
HS 6101 Basic Communication Skills 10
AGT 6103 Introduction to Green Environmental Technology 10
IT 6128 Basic Computer Skills 6
AGT 6104 Crop Production Technology 10

TOTAL 62

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Semester II

CREDITS

AGT 6105 Forest Production Technology 10
AGT 6106 Agro Post-Harvest Technology 10
AGT 6107 Introduction to Agricultural Economics 10
AGT 6108 Fundamentals of Agricultural Marketing 10
BM 6109 Basic Booking-keeping 10
AGT 6109 Basics of Agricultural Technology 10
AGT 6110 Field Practical Training 8

TOTAL 68

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DIPLOMA IN BUSINESS ADMINISTRATION

A. Diploma in Business Administration (1st Year)

Semester I

CREDITS

HS 6116 Elements of Development Studies 10
IT 6225 Computer Application 6
BM 6117 Basics of Management Principles 9
ST 6221 Quantitative Methods 6
BM 6118 Basics of Financial Accounting 10
BM 6119 Principles of Procurement and Supply 10
BM 6123 Small Business Management 9

TOTAL 68

Semester II

CREDITS

BM 6225 Elements of Strategic Management 10

BM 6126 Entrepreneurship 10

BM 6127 Basics of Consumer Behaviors 9

BM 6128 Elementary Economics 9

BM 6129 Elementary Production Management 10

BM 6135 Basics of Business Law and Ethics 10

HS 6117 Business Communication 10

TOTAL 68

B. Diploma in Business Administration (2nd Year)

Semester I

CREDITS

BM 6201 Freight Clearing and Forwarding 9

BM 6202 Principles of Marketing 9

BM 6203 Elementary Production Management 12

BM 6204 Customer Care and Public Relation 10

BM 6205 Basics of Research Methodology 10

BM 6206

BM 6127

Basics of Logistics and Transportation

Field Practice

12

10

TOTAL 60

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Semester II

CREDITS

BM 6207 Basics of Financial Management 10

BM 6208 Business Environment 10

BM 6210 Sales Management 9

BM 6211 Basics of Taxation 10

BM 6232 Basics of Human Resources Management 10

BM 6212 Research Project 12

TOTAL 61

Option Courses

BM 6213 International Finance 10

BM 6214 Basics of Supervisory Skills 10

TOTAL

DIPLOMA OF BUSINESS ADMINISTRATION IN ACCOUNTING AND FINANCE

A. Diploma of Business Administration in Accounting and Finance (1st Year)

Semester I

CREDITS

BM 6117 Basics of Management Principles 9

BM 6121 Basics of Commerce 10

BM 6120 Basics of Financial Accounting 10

ST 6221 Quantitative Methods 6

IT 6225 Computer Application 6

HS 6116

BM 6122

Elements of Development Studies

Basics of Financial Markets and Services

10

9

TOTAL 60

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Semester II

CREDITS

BM 6130

BM 6135

BM 6131

BM 6128

HS 6117

BM 6126

BM 6129

Basics of Auditing

Basics of Business Law and Ethics

Introduction to Financial Reporting

Elementary Economics

Business Communication

Entrepreneurship

Elementary Production Management

9

9

9

9

10

10

10

TOTAL 66

B. Diploma of Business Administration in Accounting and Finance (2nd Year)

Semester I

CREDITS

BM 6201 Freight Clearing and Forwarding 9

BM 6216 Basics of Taxation and Public Finance 10

BM 6218 Principles of Insurance 10

BM 6219 Elementary Money and Banking 10
BM 6205 Basics of Research Methodology 10
BM 6203 Elementary Production Management 12
TOTAL 61

Semester II

CREDITS

BM 6207 Basics of Financial Management 10
BM 6208 Business Environment 10
BM 6211 Basics of Finance Markets and Services 9
BM 6221 Basic of Public Sector Accounting 10
BM 6210 Basics of Cost Accounting and Procurement 9
BM 6232 Basics of Business Laws and Ethics 9
BM 6212 Research Project 12
TOTAL 69

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DIPLOMA OF BUSINESS ADMINISTRATION IN MARKETING AND ENTREPRENEURSHIP

A. Diploma of Business Administration in Marketing and Entrepreneurship

Semester I

CREDITS

HS 6116 Elements of Development Studies 10
BM 6123 Small Business Management 9
BM 6117 Basics of Management Principles 9
IT 6225 Computer Application 6
BM 6118 Basics of Financial Accounting 10
ST 6221 Quantitative Methods 6
BM 6124 Principles of Procurement and Supply 10
TOTAL 59

Semester II

CREDITS

BM 6125 Basics of Consumer Behaviour 9
BM 6126 Elements of Economics 9
BM 6117 Business Communication 10
BM 6124 Basics of Business Law and Ethics 9
BM 6122 Entrepreneurship 10
BM 6123 Elements of Strategic Management 10
BM 6129 Elementary Production Management 10
TOTAL 67

B. Diploma of Business Administration in Marketing and Entrepreneurship (2nd Year)

Semester I

CREDITS

BM 6202 Principles of Marketing 9
BM 6203 Elementary Production Management 12
BM 6204 Customer Care Public Relation 10

BM 6205 Basics of Research Methodology 10
BM 6206
BM 6231
Basics of Logistics and Transportation
Fundamentals of Marketing and Management
12
10

TOTAL 63

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Semester II

CREDITS

BM 6207 Basics of Financial Management 10
BM 6208 Business Environment 10
BM 6210 Sales Management 9
BM 6211 Basics of Human Resources Management 10
BM 6232 Basics of International Marketing 10
BM 6233 Marketing Research 10

TOTAL 59

Option Courses

CREDITS

BM 6234 Basics of Organization Behaviour 10
BM 6214 Basics of Supervisory Skills 10

DIPLOMA IN AGRIBUSINESS WITH TECHNOLOGY

First year, Semester I

CREDIT

AGT 6116 Horticulture Production 10
AGT 6117 Crop Post Harvest Handling and Management
Technologies
10

AGT 6118 Agribusiness Marketing 10

AGT 6119 Livestock Technology 10

BM 6118 Basics of Financial Accounting 10

ST 6221 Quantitative Methods 6

IT 6225 Computer Application 6

TOTAL 62

Year 1, Semester II

CREDIT

AGT 6120 Bee Production and Product Processing 9

HS 6117 Business Communication Skills 9

BM 6122 Entrepreneurship 10

AGT 6123 Risks Management 10

AGT 6124 Principles of Agribusiness Management 12

AGT 6125 Agrarian Change and Development 10

TOTAL 60

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Year 2, Semester I

CREDIT

DAGT 631 Principles of Agribusiness Management 12

DAGT 632 Fundamentals of Financial Management 12

DAGT 633 Agribusiness Project Management 9

DAGT 634 Creativity and Innovation in Business 10

DAGT 635 Agrarian Change and Development 10

DAGT 636 Agribusiness Ethics and Formalization 10

TOTAL 63

Year 2, Semester II

CREDIT

DAGT 641 Research Project 25

DAGT 642 Internship 15

DAGT 643 Final Research Project II 25

TOTAL 65

BACHELOR OF BUSINESS ADMINISTRATION

Year 1, Semester I

Core Courses

Course Code Course Name Credits

HS 8156 Business Communication Skills 10

DS 8102 Development Studies 9

MS 8123 Business Mathematics 6

BM 8103 Microeconomics 10

BM 8101 Principles of Procurement and Management 10

BM 8102 Principles of Management 10

BM 8104 Principles of Accounting 10

Total 65

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Year 1, Semester II

Core Courses

Course Code Course Name Credits

IT 8112 Computer Application 6

BM 8105 Macroeconomics 9

BM 8106 Principles of Marketing 10

BM 8107 Cost Accounting 9

HS 8157 Business laws 9

BM 8108 Entrepreneurship and Innovation 9

BM 8109

BM 8110

Project Management

Introduction to Finance

8

9

Total 69

BACHELOR OF BUSINESS ADMINISTRATION (2nd Year)

A. Bachelor of Business Administration (Procurement and Supply Chain Management)
(2nd Year)

Semester I

Credits

PSH 07302 Procurement and Supply 9

PSH 07303 E-Procurement and Supply Chain Management 9

PSH 07304 Principles of Warehousing Management 10

HRH 07310 Organizational Behaviour 9

BMH 07309 Project Management 9

BMH 07310 Quantitative Techniques 9

BMH 07311 Consultancy Service Management 9

Total 64

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Year 2, Semester II

Credits

PSH 07405 Public Procurement 10

PSH 07406 Inventory Control and Management 10

PSH 07407 Strategic Procurement 10

PSH 07408 Principles of Store Administration 9

FAH 07413 Public Sector Accounting 9

BMH 07412 Research Methodology 9

BMH 07413 Managerial Economics 9

BMH 07414 Field Practical Training I 8

Total 64

B. Bachelor of Business Administration (Marketing and Entrepreneurship) (2nd Year)

Semester I

Credits

MKH 07303 Small Business Management 9

MKH 07304 Sales Management 9

PSH 07303 E-Procurement and Supply Chain Management 9

BMH 07309 Project Management 9

BMH 07310 Quantitative Techniques 9

HRH 07310 Organizational Behaviour 9

BMH 07311 Consultancy Service Management 9

Total 63

Year 2, Semester II

Course Code Course Name Credits

MKH 07405 E- Marketing 9

MKH 07406 Creativity and Innovation in Business 9

BMH 07412 Research Methodology 9

BMH 07413 Managerial Economics 9

HRH 07402 Production Management 9

FAH 07405 Money and Banking 9

BMH 07414 Field Practical Training 8

Total 62

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C. Bachelor of Business Administration (Human Resources Management) (2nd Year)

Year 2, Semester I

Credits

HRH 07303 Principles of Human Resource Management 10

HRH 07304 Human Resource Planning 9

HRH 07305 Human Resource Staffing 9

HRH 07310 Organizational Behaviour 9

BMH 07309 Project Management 9

BMH 07310 Quantitative Techniques 9

BMH 07311 Consultancy Service Management 9

Total 64

Year 2, Semester II

Credits

HRH 07402 Production Management 9

HRH 07407 Leadership in Human Resource Management 9

HRH 07406 Human Resource Training and Development 7

HRH 07408 Career Planning and Management 9

HRH 07409 Employments and Labour Relations 8

BMH 07412 Research Methodology 9

BMH 07413 Managerial Economics 9

BMH 07414 Field Practical Training I 8

Total 68

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D. Bachelor of Business Administration (Accounting and Finance) (2nd Year)

Semester I

Credits

FAH 07303 Auditing and Assurance Services 8

FAH 07306 Contemporary Issues in Accounting 9

FAH 07307 Intermediate Financial Accounting 9

FAH 07308 Public Finance and Taxation 8

FAH 07309 Financial Management 9

BMH 07309 Project Management 9

BMH 07310 Quantitative Techniques 9

HRH 07310 Organizational Behaviour 9

Total 70

Semester II

Credits

FAH 07410 Advanced Accounting I 9

FAH 07411 Corporate Finance 8

FAH 07412 Advanced public Finance and Taxation 8

FAH 07413 Public Sector Accounting 9

BMH 07412 Research Methodology 9

BMH 07413 Managerial Economics 9

FAH 07405 Money and Banking 9

BMH 07414 Field Practical Training I 8

Total 69

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BACHELOR OF BUSINESS ADMINISTRATION (3rd Year)

A. Bachelor of Business Administration (Accounting and Finance) (3rd Year)

Semester I

Credits

BMB 08116 Research Project I 15

BMB 08115

BMB 08118

Research Project II

Field Practical Training

15

30

TOTAL 60

Semester II

Credits

FAB 08215 Accounting and Software Packaging 9

FAB 08216 Advanced Accounting II 9

HRB 08217 Micro Finance Management 9

FAB 08218 Management Accounting 9

FAB 08219 International Finance 9

FAB 08220 Auditing and Assurance Services 9

MKB 08210 International Business Management 9

BMB 08215 Strategic Management 10

TOTAL 73

Elective

BMB 08214 Management Information System 9

B. Bachelor of Business Administration (Procurement and Supply Chain Management)
(3rd Year)

Semester I

Credits

BMB 08116 Research Project I 15

BMB 08118

BMB 08115

Field Practical Training

Research Project II

30

15

TOTAL 60

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Semester II

Credits

PSB 08209 Strategic Supply Chain Management 9

PSB 08210 International Procurement 8

PSB 08211 Procurement and Supply Audit 9

PSB 08212 Procurement Contract Management 9

PSB 08213 Legal Aspect of Procurement 9

BMB 08217 Risk Management 10

PSB 08214 Principles of Clearing and Forwarding 9

FAB 08218 Management Accounting 9

TOTAL 72

C. Bachelor of Business Administration (Marketing and Entrepreneurship) (3rd year)

Semester I

Credits

BMB 08116 Research Project I 15

BMB 08118

BMB 08115

Field Practical Training

Research Project II

30

15

TOTAL 60

Semester II

Credits

MKB 08207 Service Marketing 9

MKB 08208 Consumer Behaviour 9

MKB 08209 Marketing Research 9

MKB 08212 Consumer Marketing and Brand Management 9

MKB 08211

MKB 08210

BMB 08217

Strategic Marketing

International Business Management

Risk Management

9

9

10

FAB 08218 Management Accounting 9

TOTAL 74

A. Bachelor of Business Administration (Human Resource Management) (3rd Year)

Semester I

BMB 08116 Research Project I 15

BMB 08118 Field Practical Training 30

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BMB 08115 Research Project II 15

TOTAL 60

Semester II

Credits

HRB 08210 Occupation Health and Safety 8

HRB 08211 Employments and Labour Laws 9

HRB 08212 Human Resources Management Information Systems 9

HRB 08213 Compensation and Performance Management 8

HRB 08215 Strategic Management 10

BMB 08217 Risk Management 9

FAB 08218 Management Accounting 9

TOTAL 62

BACHELOR OF AGRIBUSINESS MANAGEMENT AND TECHNOLOGY

A. Bachelor of Agribusiness Management and Technology (1st Year)

Semester I

Credit

HS 8156 Business Communication Skills 10

DS 8102 Development Studies 9

AG 8101 Principles of Agricultural Economics 9

MS 8123 Business Mathematics 6

AG 8102 Introduction to Agribusiness 10

BM 8101 Principles of Procurement Management 9

BM 8104 Principles of Accounting 10

TOTAL 66

Semester II

Credit

IF 8112 Computer Application 6

BM 8109 Project management 8

BM 8110 Introduction to Finance 9

BM 8108 Cost Accounting 9

BM 8108 Entrepreneurship and Innovation 9

AG 8105 Emerging Agricultural Technologies 6

HS 8157 Business Laws 9

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AG 8206 Livestock Production Technology 9

TOTAL 65

B. Bachelor of Agribusiness Management and Technology (2nd Year)

Semester I

Credits

BM 8201 Procurement Principles and Management 9

BM 8202 Organizational Behaviour 7

DS 8110 Project Management, Monitoring and Evaluation 9

BM 8203 Quantitative Techniques 9

AG 8203 Livestock Production Technology 9

AG 8201 Agricultural Food Marketing 9

AG 8202 Agricultural Environment and Community Development 9

BM 8209 Cost Accounting 9

TOTAL 70

Semester II

Credit

AG 8205 Horticulture Production and Marketing Technology 10.5

AG 8206 Agricultural Finance and Credit Management 9

AG 8207 Fisheries Production and Marketing Technology 10.5

AG 8208 Extension Methods 9

BM 8207 Financial Management 9

BM 8206 Research Methodology 9

BM 8209 Cost Accounting 9

TOTAL 66

C. Bachelor of Agribusiness Management and Technology (3rd Year)

Semester I

Course Code Course Name Credits

AG 8301 Research Project I 15

AG 8302 Research Project II 15

AG 8303 Field Practical Training 30

TOTAL 60

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Semester II

Credits

BM 8301 Risk Management 9

AG 8308 Agricultural Price Analysis 10

AG 8307 Livestock Products Processing and Marketing Technologies 10

AG 8304 Agro-Post Harvest Technologies 10

AG 8305 Contract Farming and Management 7

AG 8306 International Agricultural Trade Management 7

BM 8302 Strategic Management 7

TOTAL 60

8.5.2 DEPARTMENT OF HUMANITIES

8.5.2.1 LIST OF STAFF

(Head of Department)

*Ms. Patricia Fela Muraguri MA-Linguistics-UDSM, BED-English and Literature-KU

Assistant Lecturers

Ms. Patricia Fela Muraguri MA-Linguistics-UDSM, BED-English and Literature-KU

*Mr. Peter C. Majura MA-Linguistics (UDOM), BAED-English and Geography (UoA),
Diploma-

Education (Butimba TTC)

*Ms. Neema Kibona MA-Linguistics (TEKU), BEL-English and Kiswahili (TEKU),
Diploma-

Education (Morogoro TTC)

Mr. Stephen Nsyengula MA-Linguistics (UDOM), BAED-Linguistics and Literature
(UDSM), Diploma-

Education (Mkwawa TTC)

*Mr. Noel Richard Mwegoha MA-Linguistics (RUCO), BAED-English and Kiswahili
(RUCO), Certificate-

Education (Tandala TTC)

Mr. Joel Wang'uba PGD-Education (UDOM), BA-English (UDOM)

Mr. Emmanuel Haule Master of Arts – Linguistics (SAUT), BED- English (MMU)

Ms. Anna Yassin Master of Public Relations and Media Management (Canvedish
University),

Bachelor of Mass Communication (KIU)

Tutorial Assistant

*Mr. Raytoni Songa BAED-Language and Literature (UDSM)

*On Studies

8.6 MUST RUKWA CAMPUS COLLEGE (MRCC)

8.6.1 DEPARTMENT OF MECHANICAL AND INDUSTRIAL ENGINEERING

Programmes

The department offers two (2) programmes;

i. Diploma in Mechanical Engineering

ii. Bachelor of Mechanical Engineering

8.6.1.1 LABORATORIES AND WORKSHOPS

i. Machine Shop

ii. Automotive Workshop

iii. Welding Workshop

iv. Computer Laboratory

8.6.1.2 LIST OF STAFF

(Head of Department)

Dr. Joachim J. Mwambeleko PhD in Electrical Engineering (SUT – Thailand), M.Eng. in Electrical

Engineering (SUT- Thailand), B.Sc. in Electrical Engineering

Lecturers

Dr. Joachim J. Mwambeleko PhD in Electrical Engineering (SUT – Thailand), M. Eng (SUT-

Thailand), B.Sc in Electrical Engineering (SAUT-Mwanza)

Assistant Lecturers

Mr. Joram L. Ngilangwa* MSc. Prod. Eng. (UDSM), BSc. Mech. Eng. (UDSM), FTC Mech. Eng. (MTC).

Mr. Nyanda M. Malashi* MSc. Material Science and Eng. (NM-AIST).B. Eng. Mech. (MUST),

Mr. Alex S. Mwalyego* M.Sc. in Mathematical Modelling (UDSM), B.Sc Maths & Statistics

(UDSM)

Mr. Widson K.Mwasenga M. Tech. in Alternate Hydro Energy Systems (IITR - India), B.Eng.

in Mech. (MUST), FTC. Mech. Eng. (MTC)

Tutorial Assistants

Mr. Joseph B. Matwani B.Eng. in Electrical Engineering (MUST), FTC Electrical Eng. (MTC)

Mr. Peter C. Leiya* B.Sc. in Geomatics ((UDSM (UCLAS))

Mr. Mathew M. Mbaule PGDE Mech.Eng. (UDSM), ADE Mech. Eng (MIST), FTC Mech. Eng. (MTC)

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Mr. Nyamwaga M. Kaare* B.Sc. in Computer Science (St. Joseph University in Tanzania)

Mr. Emmanuel G. Lema B.Eng. in Mech. Eng (MUST)

Mr, Emmanuel J. Ndunguru B.Eng. in Mech. Eng (MUST)

Mr. Hussein A. Mlonja* B.Eng. in Mech. Eng (DIT)

Mr. Sabatho D. Ghibaka BEd. in Mathematics (TUMa)

Instructors

Mr. Baraka F. Kilave Dip. Mech. Eng (NIT)

Technicians

Mr. Mosses D. Mazengo* B.Eng. in Civil Engineering (MUST), FTC Civil. Eng. (ATC).

Mr. Fredrick Y. Maula Dip. Mech Eng (MIST)

*On study leave

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8.6.1.3 PROGRAMME COURSES

DIPOMA IN MECHANICAL ENGINEERING

A. Diploma in Mechanical Engineering (1st Year)

Semester I

Code Name Credit

ME 6116

ME 6117

ME 6118

ME 6119

IT 6117

HS 6116

HS 6117

NS 6139

MS 6123

Engineering Drawing I

Engineering Materials I

Automotive Technology I

Manufacturing Engineering I

Fundamental Computer Application

Elements of Development Studies

Communication Skills I

Applied Physics I

Applied Mathematics I

8

7

8

9

6

6

6

6

6

TOTAL 62

Semester II

Code Name Credit

ME 6120

ME 6121

ME 6122

ME 6123

ME 6124

CS 6124

BM 6122

NS 6144

MS 6124

Engineering Drawing II

Engineering Materials II

Automotive Technology II

Manufacturing Engineering II

Mechanical Engineering Science I

Computer programming

Entrepreneurship

Applied Physics II

Applied Mathematics II

9

7

9

9

6

6

6

6

6

TOTAL 64

B. Diploma in Mechanical Engineering (2nd Year)

Semester 1

Code Name Credit

ME 6201

ME 6202

ME 6203

ME 6204

ME 6205

ME 6206

ME 6207

MS 6222

Computer Aided Drafting I

Strength of Materials

Automotive Technology III

Manufacturing Engineering III

Thermodynamics

Mechanical Engineering Science II

Engineering Measurement and Control

Applied Mathematics III

8

6

9

9

6

6

6

6

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ME 6208 Industrial Practical Training I 10

TOTAL 66

Semester II

Code Name Credit

ME 6209

ME 6210

ME 6211

ME 6212

ME 6213

ME 6214

EE 6270

EE 6271

MS 6223

Computer Aided Drafting II

Auto Electrical Systems

Manufacturing Engineering IV

Machine Elements and Design I

Fluids Mechanics

Fundamental of Programmable Logic Controllers

Electrical Engineering Science

Basic Electronics

Applied Mathematics IV

9

9

9

6

6

7

6

6

6

TOTAL 64

C. Diploma in Mechanical Engineering (3rd Year)

Semester I

Code Name Credit

ME 6301

ME 6302

ME 6303

ME 6304

ME 6305

ME 6306

MS 6322

ME 6307

ME 6308

Machine Elements and Design II
Power plant I
Refrigeration
Environment Management
Mechatronics Technology
Fundamental of Research Methodology
Boolean Algebra and Statistics
Mechanical Project I
Industrial Practical Training II

6

6

9

6

7

6

6

10

10

TOTAL 66

Semester II

Code Name Credit

ME 6309

ME 6310

ME 6311

ME 6312

ME 6313

ME 6314

ME 6315

ME 6316

Machine Elements and Design III

Power plant II

Air Conditioning

Computer Based Manufacturing

Workshop Management

Industrial Safety and Maintenance

Hydraulic and Pneumatic systems

Quality Control and Costing Management

6

6

9

9

6

6

7

7

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ME 6317 Mechanical Project II 10

TOTAL 66

BACHELOR OF MECHANICAL ENGINEERING

A. Bachelor of Mechanical Engineering (1st Year)

Semester 1

Code Name Credits

ME8101 Engineering Drawing I 7

ME8102 Engineering Materials 6

ME 8103 Strength of Materials I 6

ME8104 Manufacturing Engineering I 8

ME 8105 Automotive Engineering I 8

BM 8108 Entrepreneurship 6

IT 8116 Computer Applications 7

MS 8117 Engineering Mathematics I 6

HS 8101 Communication Skills 6

DS 8101 Development Studies 6

TOTAL 66

Semester II

Code Name Credits

ME8107 Engineering Drawing II 9

ME8108 Machine Elements and Design I 6

ME8109 Manufacturing Engineering II 10

ME8110 Strength of Materials II 6

ME 8111 Automotive Engineering II 10

ME 8112 Power Production 6

DS 8108 Development Perspectives 6

ME 8106 Environmental Engineering 6

MS 8102 Engineering Mathematics II 6

TOTAL 65

B. Bachelor of Mechanical Engineering (2nd Year)

Semester 1

Code Name Credits

ME8201 Computer Aided Drafting I 9

ME8202 Mechanics of Machines 6

ME8203 Engineering Thermodynamics 7

ME8204 Machine Elements and Design II 6

ME 8209 Strength of Materials III 6

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ME8205 Manufacturing Engineering III 10

EE 8240 Fundamental of Electrical Engineering 6

MS8203 Engineering Mathematics III 6
ME8206 Industrial Practical Training I 10
TOTAL 66

Semester II

Code Name Credits
ME 8207 Computer Aided Drafting II 9
ME 8208 Machine Elements and Design III 6
ME 8210 Materials Technology 7
ME 8211 Fluid Mechanics 6
ME 8212 Mechatronics 6
ME 8213 Industrial Management 6
EE 8241 Electrical Machines I 7
CS 8200 Computer Programming 7
IT 8217 Computer Networking 6
MS 8217 Statistics and Numerical analysis 6
TOTAL 66

C. Bachelor of Mechanical Engineering (3rd Year)

Semester I

Code Name Credits
ME 8301 Systems Reliability and Plant Maintenance 6
ME 8302 Dynamics of Mechanical Structures 6
ME 8303 Engineering Design 6
ME 8304 Industrial Energy Management 6
ME 8305 Metal cutting and Machines Processes 8
ME 8306 Research Methodology 7
EE 8340 Electrical Machines II 7
ME 8307 Mini Project I 10
ME 8308 Industrial Practical Training II 10
TOTAL 66

Semester II

Code Name Credits
ME 8309 Renewable Energy Technologies 6
ME 8310 Industrial Automation 7
ME 8311 Engineering Economics 8
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ME 8312 Control Systems Engineering 6
ME 8313 Computer Aided Engineering (CAE) 8
ME 8314 Engineering Operations Management 6
ME 8315 Heat Transfer 6
CS 8315 Data Structure and Algorithms 6
ME 8316 Mini Project II 10
TOTAL 63

D. Bachelor of Mechanical Engineering (4th Year)

Semester 1

Code Name Credits

ME 8401 Fluid Power and Control 6

ME 8402 Power Plants 6

ME 8403 Material Handling Design 6

ME 8404 Turbo Machinery 6

ME 8405 Production Engineering 7

ME 8406 Refrigeration System 8

CS 8406 Object Oriented Programming 7

ME 8407 Senior Project I 10

ME 8408 Industrial Practical Training III 10

TOTAL 66

Semester II

Code Name Credits

ME 8409 Quality Assurance and Control 6

ME 8410 Engineering Ethics and Professional Conduct 6

ME 8411 Automation and Robotics 7

ME 8412 Engine Design Technology 6

ME 8413 Foundry Technology 9

ME 8414 Air Conditioning System 8

ME 8415 Computer Aided Manufacturing (CAM) 7

ME 8416 Industrial Supervisor Skill and leadership 6

ME 8417 Senior Project II 10

TOTAL 65

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8.6.2 DEPARTMENT OF BUSINESS MANAGEMENT

Programmes

The Department offers three (3) programmes:

i. Certificate in Business Administration

ii. Diploma in Business Administration

iii. Bachelor of Business Administration with the following specializations:

- Accounting and Finance
- Procurement and Supply Chain Management
- Marketing and Entrepreneurship
- Human Resources Management

8.6.2.1 LIST OF STAFF

(Head of Department)

Mr. Jacob S. Lupia MBA (Tumaini University), BSc.Ed (UDSM)

Assistant Lecturers

Mr. Jacob S. Lupia MBA (Tumaini University), BSc.Ed (UDSM)

Mr. Gallen P. Mlenge MA in Economics (UDOM), B.Sc in Economics (Mzumbe University)

Ms. Frida S. Mugarula MSc. in Marketing Management (Mzumbe University)

BBA in Marketing Management

Mr. Gasper A. Chuwa MBA in Finance (SAUT- Mwanza), BBA in Finance (OUT), BED in Commerce- Accounting and Economics (UDSM)

Ms. Neema J. Issyangya MAF. (Institute of Accountancy of Arusha), BBA in Accounting (Tumaini University Makumira)

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Tutorial Assistants

Ms. Zulfa J. Hussein BSc. of Business Administration in Procurement and Logistics Management (Mzumbe University)

Mr. Noel C. Mfinanga BBA (Tanzania Institute of Accountancy-TIA)

Mr. Richard E. Sichilima BBA in Human Resources Management (MUST)

*On study leave

8.6.2.2 PROGRAMME COURSES

CERTIFICATE IN BUSINESS ADMINISTRATION

A. Certificate in Business Administration

Semester I

CREDITS

MS 6125 Introductory Business Mathematics 10

BM 6102 Records Management 10

BM 6103 Elementary economics 10

HS 6101 Basic Communication Skills 10

IT 6101 Basic Computer skills 10

BM 6104 Basic procurement and supply 10

TOTAL 60

Semester II

CREDITS

BM 6105 Basics of Entrepreneurship 10

BM 6106 Basics of Service Marketing 10

BM 6107 Elements of Commerce 10

BM 6108 Principles of Salesmanship 10

BM 6109 Basic of Booking keeping 10

BM 6110 Basics of Customer Care and Public Relation 10

BM 6111 Basics of Consumer Behaviour 10

TOTAL 70

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DIPLOMA IN BUSINESS ADMINISTRATION

C. Diploma in Business Administration (1st Year)

Semester I

CREDITS

BM 6116 Small Business Management 9

BM 6117 Basics of Management Principles 9

BM 6118 Basics of Financial Accounting 10
IT 6118 Information and Computer Technology 10
BM 6119 Basics of Quantitative Techniques 10
BM 6120 Principles of Procurement and Supply 9
HS 6116 Elements of Development Studies 10
TOTAL 67

Semester II

CREDITS

BM 6122 Entrepreneurship 10
BM 6123 Elements of Strategic Management 10
BM 6124 Basics of Business Law and Ethics 10
BM 6125 Basics of Consumer Behaviours 9
BM 6126 Elementary Economics 9
HS 6117 Business Communication 10
BM 6127 Field Practice 10
TOTAL 68

D. Diploma in Business Administration (2nd Year)

Semester I

CREDITS

BM 6201 Freight Clearing and Forwarding 9
BM 6202 Principles of Marketing 9
BM 6203 Elementary Production Management 12
BM 6204 Customer Care and Public Relation 10
BM 6205 Basics of Research Methodology 10
BM 6206 Basics of Logistics and Transportation 12
TOTAL 62

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Semester II

CREDITS

BM 6207 Basics of Financial Management 10
BM 6208 Business Environment 10
BM 6209 Basics of Taxation 10
BM 6210 Sales Management 9
BM 6211 Basics of Human Resources Management 10
BM 6212 Research Project 12
TOTAL 61

Option Courses

Code Title Credits

BM 6213 International finance 10
BM 6214 Basics of supervisory skills 10

TOTAL

DIPLOMA IN AGRIBUSINESS WITH TECHNOLOGY

First year, Semester I

CREDIT

AGT 6116 Horticulture Production 10

AGT 6117 Crop Post Harvest Handling and Management Technologies 10

AGT 6118 Agribusiness Marketing 10

AGT 6119 Livestock Technology 10

BM 6118 Basics of Financial Accounting 10

ST 6221 Quantitative Methods 6

IT 6225 Computer Application 6

TOTAL 62

Year 1, Semester II

CREDIT

AGT 6120 Bee Production and Product Processing 9

HS 6117 Business Communication Skills 9

BM 6122 Entrepreneurship 10

AGT 6123 Risks Management 10

AGT 6124 Principles of Agribusiness Management 12

AGT 6125 Agrarian Change and Development 10

TOTAL 60

Year 2, Semester I

CREDIT

DAGT 631 Principles of Agribusiness Management 12

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DAGT 632 Fundamentals of Financial Management 12

DAGT 633 Agribusiness Project Management 9

DAGT 634 Creativity and Innovation in Business 10

DAGT 635 Agrarian Change and Development 10

DAGT 636 Agribusiness Ethics and Formalization 10

TOTAL 63

Year 2, Semester II

CREDIT

DAGT 641 Research Project 25

DAGT 642 Internship 15

DAGT 643 Final Research Project II 25

TOTAL 65

BACHELOR OF BUSINESS ADMINISTRATION

Year 1, Semester I

Core Courses

Course Code Course Name Credits

HS 8156 Business Communication Skills 10

DS 8102 Development Studies 9

MS 8123 Business Mathematics 6

BM 8103 Microeconomics 10

BM 8101 Principles of Procurement and Management 10

BM 8102 Principles of Management 10

BM 8104 Principles of Accounting 10

Total 65

Year 1, Semester II

Core Courses

Course Code Course Name Credits

IT 8112 Computer Application 6

BM 8105 Macroeconomics 9

BM 8106 Principles of Marketing 10

BM 8107 Cost Accounting 9

HS 8157 Business laws 9

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BM 8108 Entrepreneurship and Innovation 9

BM 8109

BM 8110

Project Management

Introduction to Finance

8

9

Total 69

BACHELOR OF BUSINESS ADMINISTRATION (2nd Year)

E. Bachelor of Business Administration (Procurement and Supply Chain Management)
(2nd Year)

Semester I

Credits

PSH 07302 Procurement and Supply 9

PSH 07303 E-Procurement and Supply Chain Management 9

PSH 07304 Principles of Warehousing Management 10

HRH 07310 Organizational Behaviour 9

BMH 07309 Project Management 9

BMH 07310 Quantitative Techniques 9

BMH 07311 Consultancy Service Management 9

Total 64

Year 2, Semester II

Credits

PSH 07405 Public Procurement 10

PSH 07406 Inventory Control and Management 10

PSH 07407 Strategic Procurement 10

PSH 07408 Principles of Store Administration 9

FAH 07413 Public Sector Accounting 9

BMH 07412 Research Methodology 9

BMH 07413 Managerial Economics 9

BMH 07414 Field Practical Training I 8

Total 64

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F. Bachelor of Business Administration (Marketing and Entrepreneurship) (2nd Year)

Semester I

Credits

MKH 07303 Small Business Management 9

MKH 07304 Sales Management 9

PSH 07303 E-Procurement and Supply Chain Management 9

BMH 07309 Project Management 9

BMH 07310 Quantitative Techniques 9

HRH 07310 Organizational Behaviour 9

BMH 07311 Consultancy Service Management 9

Total 63

Year 2, Semester II

Course Code Course Name Credits

MKH 07405 E- Marketing 9

MKH 07406 Creativity and Innovation in Business 9

BMH 07412 Research Methodology 9

BMH 07413 Managerial Economics 9

HRH 07402 Production Management 9

FAH 07405 Money and Banking 9

BMH 07414 Field Practical Training 8

Total 62

G. Bachelor of Business Administration (Human Resources Management) (2nd Year)

Year 2, Semester I

Credits

HRH 07303 Principles of Human Resource Management 10

HRH 07304 Human Resource Planning 9

HRH 07305 Human Resource Staffing 9

HRH 07310 Organizational Behaviour 9

BMH 07309 Project Management 9

BMH 07310 Quantitative Techniques 9

BMH 07311 Consultancy Service Management 9

Total 64

Year 2, Semester II

Credits

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HRH 07402 Production Management 9

HRH 07407 Leadership in Human Resource Management 9

HRH 07406 Human Resource Training and Development 7

HRH 07408 Career Planning and Management 9

HRH 07409 Employments and Labour Relations 8

BMH 07412 Research Methodology 9
BMH 07413 Managerial Economics 9
BMH 07414 Field Practical Training I 8
Total 68

H. Bachelor of Business Administration (Accounting and Finance) (2nd Year)

Semester I

Credits

FAH 07303 Auditing and Assurance Services 8
FAH 07306 Contemporary Issues in Accounting 9
FAH 07307 Intermediate Financial Accounting 9
FAH 07308 Public Finance and Taxation 8
FAH 07309 Financial Management 9
BMH 07309 Project Management 9
BMH 07310 Quantitative Techniques 9
HRH 07310 Organizational Behaviour 9
Total 70

Semester II

Credits

FAH 07410 Advanced Accounting I 9
FAH 07411 Corporate Finance 8
FAH 07412 Advanced public Finance and Taxation 8
FAH 07413 Public Sector Accounting 9
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BMH 07412 Research Methodology 9
BMH 07413 Managerial Economics 9
FAH 07405 Money and Banking 9
BMH 07414 Field Practical Training I 8
Total 69

BACHELOR OF BUSINESS ADMINISTRATION (3rd Year)

D. Bachelor of Business Administration (Accounting and Finance) (3rd Year)

Semester I

Credits

BMB 08116 Research Project I 15
BMB 08115
BMB 08118
Research Project II
Field Practical Training

15

30

TOTAL 60

Semester II

Credits

FAB 08215 Accounting and Software Packaging 9

FAB 08216 Advanced Accounting II 9
HRB 08217 Micro Finance Management 9
FAB 08218 Management Accounting 9
FAB 08219 International Finance 9
FAB 08220 Auditing and Assurance Services 9
MKB 08210 International Business Management 9
BMB 08215 Strategic Management 10
TOTAL 73

Elective

BMB 08214 Management Information System 9

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E. Bachelor of Business Administration (Procurement and Supply Chain Management)
(3rd Year)

Semester I

Credits

BMB 08116 Research Project I 15

BMB 08118

BMB 08115

Field Practical Training

Research Project II

30

15

TOTAL 60

Semester II

Credits

PSB 08209 Strategic Supply Chain Management 9

PSB 08210 International Procurement 8

PSB 08211 Procurement and Supply Audit 9

PSB 08212 Procurement Contract Management 9

PSB 08213 Legal Aspect of Procurement 9

BMB 08217 Risk Management 10

PSB 08214 Principles of Clearing and Forwarding 9

FAB 08218 Management Accounting 9

TOTAL 72

F. Bachelor of Business Administration (Marketing and Entrepreneurship) (3rd year)

Semester I

Credits

BMB 08116 Research Project I 15

BMB 08118

BMB 08115

Field Practical Training

Research Project II

30

15

TOTAL 60

Semester II

Credits

MKB 08207 Service Marketing 9

MKB 08208 Consumer Behaviour 9

MKB 08209 Marketing Research 9

MKB 08212 Consumer Marketing and Brand Management 9

MKB 08211

MKB 08210

Strategic Marketing

International Business Management

9

9

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BMB 08217 Risk Management 10

FAB 08218 Management Accounting 9

TOTAL 74

A. Bachelor of Business Administration (Human Resource Management) (3rd Year)

Semester I

BMB 08116 Research Project I 15

BMB 08118

BMB 08115

Field Practical Training

Research Project II

30

15

TOTAL 60

Semester II

Credits

HRB 08210 Occupation Health and Safety 8

HRB 08211 Employments and Labour Laws 9

HRB 08212 Human Resources Management Information Systems 9

HRB 08213 Compensation and Performance Management 8

HRB 08215 Strategic Management 10

BMB 08217 Risk Management 9

FAB 08218 Management Accounting 9

TOTAL 62

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8.7 COLLEGE OF AGRICULTURAL SCIENCES AND TECHNOLOGY (CoAST)

8.7.1 THE DEPARTMENT OF FOOD SCIENCE AND TECHNOLOGY

Programmes

The Department offers two (2) Programmes:

b) Diploma in Food Science and Technology

c) Bachelor of Science in Food Science and Technology

8.7.1.1 LABORATORIES

iv. Food Chemistry Laboratory

v. Microbiology Laboratory

vi. Food Science Laboratory

vii. Molecular Biology Laboratory

8.7.1.2 LIST OF STAFF

(Head of Department)

Dr. Joseph Runyogote PhD Life Sciences (Food & Nutritional Science) (NM-AIST),
MSc. Food Quality and Safety Assurance (SUA), BSc. Food
Science and Technology (SUA)

Lecturers

Dr. Joseph Runyogote PhD Life Sciences (Food & Nutritional Science) (NM-AIST),
MSc. Food Quality and Safety Assurance (SUA), BSc. Food
Science and Technology (SUA)

Dr. Diana Nicodemus

Dr. Angela Aluko

PhD Human Nutrition (OUT), MSc. Human Nutrition,
(SUA), BSc. Home Economics & Human Nutrition (SUA)

PhD Life Sciences (Food & Nutritional Science) (NM-AIST),
MSc. Food Science (Jomo Kenyatta Univ.), MBA (UDOM),
BSc. Food Science and Technology (SUA)

Dr. Chacha Nyangi PhD Public Health (Food Safety) (SUA), MSc. Food Science
(SUA), BSc. Food Science and Technology (SUA)

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Dr. Fabian Mihafu

Assistant Lecturer

PhD Food Science and Nutrition (Jomo Kenyatta Univ.) MSc.

Food Science (TUSEGE), BSc. Agricultural Education (SUA)

Ms. Eliwanzita. N. Sospeter MSc. Food Technology (Gent and KU Leven Universities),
BSc. Food Science and Technology (SUA) *

Mr. Joel A. Mhanga MSc. Food Quality and Safety Assurance SUA), BSc. Food
Science and Technology (SUA)

Ms. Buzo H. Maige MSc. Food Science (Makerere Univ.), BSc. Food Science and
Technology (SUA)

Mr. Frank M. Kaseka MSc. Food Science (SUA), BSc. Food Science and
Technology (SUA)*

Mr. Fred Mwabulili: MSc. Food Quality Management (Wageningen University),
BSc. Food Science and Technology (SUA) *

Mr. Tumaini K. Marango MSc. Food Quality Management (Wageningen University),
BSc. Food Science and Technology (SUA)

Ms. Lilian S. Maro MSc. Food Safety (Wageningen University), BSc. Food Science and Technology (SUA)

Ms. Amina M. Ahmed MSc. Food Science (BSc. Food Science and Technology (SUA) *

Mr. Arthur B. Mhauka MSc. Public Health & Food Safety (SUA), BSc. Food Science and Technology (SUA), Diploma in Environmental Health Sciences (UDSM)

Ms. Naelijwa Mshanga MSc. Food Biotechnology & Nutritional Sci (NM-AIST), BSc Human Nutrition (SUA)*

Ms. Zerida Samwel MSc. Human Nutrition, (SUA), BSc. Home Economics & Human Nutrition (SUA)

Msc. Food Technology (CAN THO University) BSc. Food Science and Technology (SUA)

Tutorial Assistants

Mr. Elisha Ezekiel Ntumbo BSc. Food Science and Technology (SUA)

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Mr. Warren Henry Kilemile BSc. Food Science and Technology (SUA)

Instructors

Ms. Prisca Siyame MSc Life Sciences (Food and Nutritional Sciences) (NM-AIST), BSc. Food Science and Technology (SUA).

Mr. John Emmanuel BSc. Food Science and Technology (SUA)

Technicians

Mr. Charles E. Chekecha BSc. Lab Tech. (SUA), FTC Science and Lab. (DIT)

Mr. Moses Musa Diploma in Food Science and Technology (MUST)*

*Study leave

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8.7.1.3 PROGRAMME COURSES

DIPLOMA IN FOOD SCIENCE AND TECHNOLOGY

A. Diploma in Food Science and Technology (1st Year)

Semester I

Code Name Credit

AS 6116 Introduction to Food Science 10

AS 6117 Principles of Preservation 12

AS 6118 Introduction to Biochemistry 10

AS 6119 Introduction to Microbiology 12

IT 6117 Fundamentals of Computer Application 6

MS 6130 Algebra for Laboratory and Food Science 10

TOTAL 60

Semester II

Code Name Credit

AS 6122 Food Microbiology 10

AS 6123 Material Science and Food Packing 10

AS 6124 Basic Food and Engineering 10

AS 6125 Food Biochemistry 10

HS 6117 Communication Skills 10

BM 6122 Entrepreneurship 10

MS 131 Basics of Calculus 12

TOTAL 72

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B. Diploma in Food Science and Technology (2nd Year)

Semester I

Code Name Credit

AS 6201 Food Chemistry 12

AS 6202 Introduction to Biotechnology 12

AS 6203 Principles of Human Nutrition 10

AS 6204 Basic Food Instrumentation 10

AS 6205 Plant Layout and Equipment Maintenance 12

ST 6222 Applied Statistics 10

TOTAL 66

Semester II

Code Name Credit

AS 6206 Food Analysis 10

AS 6207 Cereal and Legume Processing Technology 12

AS 6208 Food Contaminant and Hygiene 8

AS 6209 Food Research Methods 9

NS 6136 Industrial Practical Training (IPT) 10

NS 6136 Analytical Chemistry 11

TOTAL 60

C. Diploma in Food Science and Technology (3rd Year)

Semester I

Code Name Credit

AS 6301 Food and Nutrition Security 10

AS 6302 Sensory Evaluation of Foods 10

AS 6303 Food Engineering Operations 12

AS 6304 Beverage Technology 10

AS 6305 Meat Science and Technology 10

AS 6306 Dairy Technology 8

AS 6307 Project I 8

TOTAL 68

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Semester II

Code Name Credit

AS 6308 Fish and Marine Products Technology 9

AS 6309 Food Biotechnology 10

AS 6310 Food Safety and Quality Management 12

AS 6311 Pilot Plant Processes 9

AS 6312 Project II 10

AS 6313 Industrial Practical Training (IPT) 10

TOTAL 60

BACHELOER OF SCIENCE IN FOOD SCIENCE AND TECHNOLOGY

A. Bachelor Science in Food Science and Technology (1st Year)

Semester I

Code	Course name	Credits
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NS 8126	General Chemistry	12
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MS 8124	Algebra and Calculus	8
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NS 8127	Physics	9
---------	---------	---

HS 8101	Communication Skills	8
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DS 8108	Development Perspectives	6
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CS 8104	Programming Concepts	9
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AS 8101	Introductory Food Science	8
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AS 8102	Technical Drawing	8
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TOTAL 68

Semester II

Code	Course name	Credits
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ST 8123	Introductory Statistics	10
---------	-------------------------	----

AS 8103	General Microbiology	8
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AS 8104	Food Processing and Preservation	12
---------	----------------------------------	----

AS 8105	Physico-Chemistry of Food	11
---------	---------------------------	----

AS 8106	Principles of Food Engineering	11
---------	--------------------------------	----

AS 8107	Principles of Animal and Crop Production	11
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AS 8108	Instrumental Methods of Food Analysis	8
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AS 8109	Food Entrepreneurship	8
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TOTAL 79

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B. Bachelor Science in Food Science and Technology (2nd Year)

Semester I

Code	Course name	Credits
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ST 8222	Biometry	9
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AS 8201	Food Biochemistry	8
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AS 8202	Food Microbiology	8
---------	-------------------	---

AS 8203	Food Process Engineering - I	12
---------	------------------------------	----

AS 8204	Plant Layout, Processes and Design	12
---------	------------------------------------	----

AS 8205	Technology of Beef, Poultry and Eggs	11
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AS 8206	Cereals and Pulse Processing Technology	10
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AS 8207	Principles of Human Nutrition	10
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TOTAL 80

Semester II

Code Course name Credits

AS 8208 Technology of Fish and Marine Food products 12

AS 8209 Food Research Methods 8

AS 8210 Food Process Engineering - II 12

AS 8211 Sugarcane Processing and Sugar Technology 10

AS 8212 Industrial Practical Training - I 12

AS 8213 Beverage Technology 8

AS 8214 Postharvest Handling of Perishable Crops 12

AS 8215 Dairy Technology 10

TOTAL 84

B. Bachelor Science in Food Science and Technology (3rd Year)

Semester I

Code Course name Credits

AS 8301 Plantation Products and Spices Technology 9

AS 8302 Food Product Development 12

AS 8303 Food Biotechnology 8

AS 8304 Food Hygiene 7

AS 8305 Food Safety and Quality Management 12

AS 8306 Food Chemistry and Analysis 11

AS 8307 Food Project - I 12

TOTAL 71

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Semester II

Code Course name Credits

AS 8308 Food Packaging 12

AS 8309 Food Sensory Evaluation 8

AS 8310 Food Project - II 12

AS 8311 Industrial Practical Training - II 12

AS 8312 Agro-Food Economics and Marketing 8

AS 8313 Technology of Oils and Fats 10

AS 8314 Postharvest Handling of Non-Perishable Crops 11

TOTAL 73

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8.7.2 THE DEPARTMENT OF CROP SCIENCE AND HORTICULTURE

8.7.2.1 LABORATORIES

None

8.7.2.2 LIST OF STAFF

(Head of Department)

Dr. Marco E. Mng'ong'o PhD in Sustainable Agriculture (NM-AIST), MSc. Soil

Sciences (Ghent University, Belgium), BSc. Agriculture

General (SUA)

Lecturers

Dr. Marco E. Mng'ong'o PhD in Sustainable Agriculture (NM-AIST), MSc. Soil Sciences (Ghent University, Belgium), BSc. Agriculture General (SUA)

Assistant Lecturers

Mr. Abubakar M. Mshora MSc. Horticulture (Punjab University, India), BSc. Agriculture General (SUA)

Ms. Rehema E. Mwaipopo MSc. Crop Science (SUA), BSc. Horticulture (SUA)

Mr. Selema S. Shimo MSc. Agricultural Biotechnology (Hungarian University of Agriculture and Life Sciences, Hungary), BSc. Science with education (UDSM)

Tutorial Assistants

Mr. Edwin Wanyato BSc. Agriculture General (SUA),

Mr. Absolam Komanya

Mr. Christopher C. Msigwa*

BSc. Animal Science (SUA)

BSc. Agriculture General (SUA)

*Study leave

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8.8 DIRECTORATE OF LIBRARY SERVICES (DLS)

8.8.1 DEPARTMENT OF INFORMATION AND RECORDS STUDIES (IRS)

Programmes

The department is currently preparing curricula for offering Certificate, Diploma and Bachelor degree programmes.

8.8.1.1 LIST OF STAFF

(Head of Department)

Dr. Nabahani B. Hamadi PhD in Computer Science (BJUT - China), MSc. Automated systems software (KHNURE - Ukraine), BSc. Computer science (KHNURE - Ukraine).

Assistant librarian trainee

Mr. Atulinda K. Katto Bachelor of library and information management (Open University of Tanzania)

Mr. Sospeter E. Martinius* Bachelor of information and records management (SUA)

Mr. Amani L. Magava Bachelor of Science in library and information management (Mzumbe University), Diploma in library, records and information studies (SLADS), Certificate in library, records and information studies (SLADS).

Mr. David G. Ruvugo Bachelor of Science in library and information management (Mzumbe University)

Ms. Zuhura W. Mayendi Bachelor in records archives and information management (TPSC)

Ms. Leah S. Makiria Bachelor of information and records management (SUA), Diploma in library and information studies (Jordan University College), Certificate in library and information

science (Jordan University College)

Ms. Zainabu H. Lilutu Bachelor of information and records management (SUA),
Diploma in information technology (SUA), Certificate in
information technology (SUA)

*On study leave

**Secondment

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9.0 ACADEMIC RELATED UNITS

9.1 RESEARCH AND PUBLICATIONS DIRECTORATE

The Research and Publications Directorate is responsible for overall coordination and administration of Research and Publications activities. In addition, the Directorate performs the following activities:

- i. Coordinates projects for both students and staff.
- ii. Plans and coordinates curriculum activities.
- iii. Plans, organizes and produces posters, leaflets. Newsletters and other information documents.
- iv. Arranges for academic workshops.
- v. Acts as the custodians of Research and Consultancy reports and disseminate findings for academic and other uses.

9.2 MUST CONSULTANCY BUREAU (MCB) Company Ltd

MCB Company Ltd is an incorporated company under the Company Ordinance CAP 212, and registered with the registrar of companies, BRELA. It has a Class IV registration to undertake Civil, Building, Electrical, and Mechanical works from the National Contractors Registration Board (CRB) since March 2017.

The Company has its headquarters and offices located at Mbeya University of Science and Technology (MUST).

The company is owned by Mbeya University of Science and Technology (MUST), formerly Mbeya Institute of Science and Technology (MIST) and Mbeya Technical College (MTC). It constitutes the Board of Directors and other personnel, and run by the Managing Director and Project Manager.

9.3 INDUSTRIAL LINKAGE AND LABOUR DEPARTEMNT

The department of Industrial Linkage and Labour is responsible for coordinating Students' Industrial/Field

Practical Training (IPT/FPT/TP). The IPT/FPT/TP is recognized as a course module and is conducted often after

completing the class modules. The IPT/FPT/TP module is designed to enable MUST graduates to become

competent and able to meet challenges of the job market and also makes them think positively towards self-employment undertakings. The office is also responsible for Industrial Relations and students' employment guidance.

9.4 UNIVERSITY FACILITIES

9.4.1 ASSEMBLY HALL (THE NYERERE HALL)

The University has a multipurpose assembly hall named after the first president named "Nyerere Hall", it has a capacity to hold 800 people and is used for meetings, lectures, social functions and gatherings.

9.4.2 CAFETERIA

The University provides meals to Diploma students in a well-equipped cafeteria and kitchen facilities capable of accommodating 350 students at a time. The equipments include modern cooking and refrigeration facilities. The services are provided under the private sector partnership (PSP) arrangement.

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9.4.3 SOCIAL CLUB

The social club provides recreational and accommodation services to guests and members of the University community.

Provides meals services to off campus and private sponsored students and members of the community a low cost.

9.4.4 MAMA/BABA LISHE

The University has a building where caterers (mama/ baba lishe) provide food service for the students. This service is meant to ensure that food at affordable prices is provided for the students who need it. Provision of this catering service at the University also ensures that meals are provided in a clean and safe environment.

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10 UNDERGRADUATE EXAMINATION REGULATIONS

PREAMBLE

These Regulations are meant to provide guidelines for conduct of University examinations and carrying out students' assessment. The Regulations present what staff and students should abide in the whole examination process. These Regulations shall apply to all undergraduate programmes offered by the University that are evaluated by any form of Continuous Assessment and Semester Examination, except where otherwise indicated.

These Regulations pertain to all examinations that are conducted by the College and any other academic unit of the University. These Examination Regulations will take effect from the Academic year 2019/2020 for first-year Students.

10.1 GENERAL EXAMINATION REGULATIONS

10.1.1 Definitions

Abscondment The act of being absent from scheduled examination at the time, day and place

specified without prior permission or failure to attend scheduled classes to the stipulated minimum percentage (75%) of attendance in a specific semester.

Appeal A request for a review of a decision made by an Examinations Authority about the performance in an examination of a student.

Board Refers to the group of people who have power to make decisions and control over

a formal written, spoken or practical test(s) and examination(s) in the University.

It specifically includes Department Committee, College/School Sub-committee Board, College/School Board, Undergraduate Committee and the University Senate.

Candidate Any person registered for any programme of study conducted by the University and eligible for examination.

Carry Over Repeating the failed course(s) in the subsequent years by fulfilling all requirements of the course(s) as stipulated in these regulations and it is abbreviated as "CO".

Continuous Assessment An assessment process that consists of quizzes, tests, assignments, case studies, and field/project work report where applicable.

Core Course An essential and compulsory course of a programme which must be completed by all students in a particular semester.

Course Any independent unit that contributes in making up a programme of study offered and it has a unique identification code.

Cumulative GPA Refers to the summation of all grade points of all credit course divided by the total

number of credits taken by a student beginning from his/her admission till the last MUST Prospectus 2024/2025

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examination held.

De-conformant of an Award Any act of depriving the right of owning the award for diploma, degree or any

other academic legality possessed by the graduand/graduate after failing to adhere or comply to certain academic conditions.

De-registration An official record that disqualifies a particular student as no longer eligible as

legitimate student of the University.

Diploma A non-degree programme studied for a minimum of two/three years.

Discontinuation Stopping a student from continuing with studies and/or deprivation of a degree,

non-degree award or any other academic credentials already awarded by the University. The student will stay away from the University for three (3) years and he/she may re-apply for first year in another programme different from the first one that he/she was discontinued provided that such student has minimum entry requirements to the programme.

Elective Course Course chosen by a student from the list of the options taken as additional course

to compulsory courses in particular semester.

Examination Any formal written, spoken or practical timed and supervised assessment(s)

(Continuous Assessment, Semester Examination and Industrial/Field Practical Training).

Examination Cheating Possession of, using, giving, receiving or copying unauthorized materials during

and /or after a test, examination, assignment, quizzes, project, research report or collaborating with another candidate to commit examination irregularity. It also includes any kind of dishonesty, destruction, falsification or any evidence of examination irregularity.

Examination Irregularity Any act or conduct prohibited or failure to abide by general or specific examination regulation(s).

Examination Venue Any area that the Senate has approved to be used for conducting examinations of any form.

Final Examination Results Refer to results which combines the first and/or second semesters' examinations' results approved by the Senate.

Incomplete Examination Results Examination results with unfinished component of assessment.

Invigilation Refers to the action of monitoring candidates while they are taking an examination

to make sure that they have everything they need; they keep to the rules and all

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regulations regarding the given examinations.

Invigilator Refers to a person monitoring candidate while they are sitting for examination(s)

to make sure that they have everything they need, they keep to the rules and all

regulations regarding the given examination(s).

Maximum Period of Registration The maximum time (years) of which a student will stay at the University pursuing his/her programme (ie. five years and six years for three and four-year programmes respectively).

Oral Examination A test in which examiners pose question(s) in spoken form and the answers must be in spoken form.

Pending Issue An issue of which a decision is not yet made by the given authority.

Plagiarism Refers to an act of copying another person's ideas, words or work and pretend that

they are your own; this includes lifting, stealing, illegally use, bootlegging of work, passing off of the words or ideas of someone else as his/her without proper acknowledgement or crediting of original source or use of academic work that constitute breach of copyright.

Postponement of Examinations Adjourn examinations to a later date with the approval of the authority and it is abbreviated as PEX.

Postponement of Studies Adjourn studies to a later date with the approval of the authority and it is abbreviated as 'POS'

Pre-requisite Course An essential course of a programme which must be completed before proceeding to the next semester or level.

Programme The totality of courses offered towards the award of certificate to the student

Provisional Examination Results Examination results which have not yet been approved by the Senate. They express the temporary score(s) of the formal written, spoken or practical test(s) and examination(s) in the University done at the end of the given academic semester. These results are arranged for the present time only and are likely to be changed in the future by the Senate.

Registration An official record that qualifies a particular student as eligible and legitimate student of the University

Semester The time period in which a particular learning takes place in the University. One

semester consists of seventeen (17) weeks of which fifteen (15) weeks are set for tuition and two (2) weeks are for examinations.

Semester Examination An examination administered as first sitting at the end of a semester or at the end of a taught course as stipulated in these Regulations.

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Semester Grade Point Average Refers to the summation of the product of all credit modules and grade point scored by a student divided by the total number of credits taken by a student during a semester.

Senate The overall principal decision-making organ in respect of all academic matters of

the University and it is responsible for the academic work of the University both in teaching, research and consultancy.

Special Examination An examination administered to a candidate as the first sitting parallel to

Supplementary Examinations after failing to sit for semester examination with genuine reason(s); and it is awarded the marks equivalent to semester examination.

Student Any person registered for any programme of study conducted by the University.

Supplementary Examination An examination administered to a candidate after failing the first sitting in the

semester examination or special examination after fulfilling all required conditions for that sitting and awarded a maximum of grade C.

Termination of Studies An official record that refers to a particular student who has stopped his/her

studies intentionally/unintentionally before completing the final year at the University. It is abbreviated as TOS.

Unauthorized Material Any form of prohibited written or printed material(s) which is/are not allowed into

the examination venues including but not limited to written papers, books, notes, annotated materials, cellular or mobile phone, radios, radio cassette or other type of players, computer, iPod, smart pen, smart watch, smart spectacle, earphones, recording apparatus, programmable calculator, calculator with unauthorized written material, written handkerchief, DVD, VCD, soft or alcoholic drinks, annotated documents which one knows, believes, suspects or reasonably ought to have known, believed or suspected that the same could be used to assist him/her cheating in the examination and any other material as may be specified from time to time by the DVC Academic, Research and Consultancy.

Undergraduate Refers to the University or College student who is studying for his/her first degree, diploma or certificate.

University Mbeya University of Science and Technology.

Valid/genuine Reason Means any reason that may be accepted such as medical ground(s), acquired consent or officially granted permission by the University.

Withheld Results Results which have been retained/ not been released due to various reasons.

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10.1.2 Eligibility for Examinations

10.1.2.1 A candidate shall be allowed to sit for examination if he/she is dressed in a decent manner as stipulated in Student's by Laws.

10.1.2.2 A candidate shall be allowed to sit for any semester examination if he/she has registered and paid all prescribed fees by the University within two weeks from the first day of beginning the particular semester.

10.1.2.3 A candidate shall sit for semester examination in a given course(s) if he/she has attained at least 75% of attendance in a course(s) delivery.

10.1.2.4 A candidate shall be allowed to sit for semester examination if he/she has completed course assessment in all required courses.

10.1.2.5 A candidate shall sit for supplementary examination(s) in the failed course(s) provided that the overall GPA is 1.8 or above. Supplementary Examination shall be held before commencement of the next academic year.

10.1.2.6 The highest mark awarded in the supplementary examination(s) shall be minimum passing grade i.e. Grade 'C'. This will be used in the calculation of Overall GPA.

10.2 SPECIFIC EXAMINATION REGULATIONS

10.2.1 Course Assessment Criteria

10.2.1.1 Student performance shall be assessed continuously throughout the course. Such Continuous Assessment shall include at least two-timed test under examination conditions and homework exercises in a specific semester. The weight of such Continuous Assessment in every course shall be 40% and Semester Examination shall be 60%, unless otherwise stated as stipulated in the curriculum for a given course.

10.2.1.2 Continuous Assessment shall be open to students before sitting for the Semester Examination through Students Information Management System (SIMS) and the signed printout from instructor shall be submitted to the respective Head of Department at least two weeks before commencement of semester examinations.

10.2.1.3 A candidate who for genuine reason(s) has not completed continuous assessment in a course(s) shall be awarded an "Incomplete" Continuous Assessment (ICA). Such a student shall be required to sit for special

continuous assessment(s) in a given semester before commencement of semester examination.

10.2.1.4 It shall be the duty of the concerned instructor to inform the students at the beginning of the semester on the procedures of assessment for the respective course.

10.2.1.5 All courses shall be examined or otherwise assessed at the end of each semester and the results shall count in determining successful completion of studies.

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10.2.1.6 Determination of overall GPA for pass or fail status of the candidate shall be done at the end of each academic year by the concerned authority.

10.2.2 Examination Setting, Moderation and Marking

10.2.2.1 The examination process shall involve setters, moderators and markers.

10.2.2.2 The criteria, procedure to appoint setters, moderators and markers together with their roles are stipulated in separate document (Examination Setting, Moderation and Marking).

10.2.2.3 All examinations which are set must be moderated as per moderation procedures and the moderation report(s) shall be submitted to the Head of Department.

10.2.3 Conduct of Semester Examinations

10.2.3.1 Draft Timetable for semester examinations shall be available and accessible in University Website, Notice Board and SIMS in four weeks before the commencement of the semester examinations.

10.2.3.2 Final Timetable for semester examinations shall be available and accessible in University Website, Notice Board and SIMS in two weeks before the commencement of the semester examinations.

10.2.3.3 It shall be the duty of the candidate to consult the concerned Department's Examination Coordinator for changes of Draft Examinations Timetable in not more than one week after the release of Draft Examinations Timetable.

10.2.3.4 No candidate shall enter into the examination room unless he/she has produced his/her Student Identity Card and Examination Card for inspection by the Invigilator before entering to the examination room.

10.2.3.5 No candidate shall be admitted to the examination room after 30 minutes have elapsed since examination commencement.

10.2.3.6 No student shall be allowed to leave the examination room 30 minutes before the end of examination.

10.2.3.7 A student who is unable to continue doing the examination may be allowed to leave the examination room

30 minutes after the commencement of the examination. Such student shall neither be allowed to return into

the examination room nor leave with the question paper or answer booklets.

10.2.3.8 Without prejudice article 10.2.3.6, a candidate who finishes an examination before the finishing time may

be allowed to leave the examination room provided that 30 minutes have elapsed since the commencement of the examination.

10.2.3.9 A candidate may leave the examination room temporarily for five minutes; only with the permission of the

Invigilator after filling the Examination Short-call Form. In any such situation, the Invigilator will satisfy

him/herself that the candidate does not carry with him/her any unauthorized material.

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10.2.3.10 A candidate allowed to leave the examination room temporarily will be accompanied by an examination

attendant designated by the Invigilator while outside the examination room.

10.2.3.11 A candidate shall not bring any book, paper or written information or other unauthorized materials before

entering into the examination room. A candidate who is suspected of hiding unauthorized material shall be

asked by the Invigilator to surrender the material and if necessary, shall be subjected to a body search.

Refusing to surrender the suspected materials or body search is tantamount to misconduct and will result to

denial of examination room entry.

10.2.3.12 A candidate sitting for semester examination or test shall be guilty of an irregularity if:

(i) He/she possess any unauthorized materials such as written or printed document or memorandum,

notes, sketch, map, diagram, any inadmissible electronic/non electronic equipment or article in the

examination room;

(ii) He/she helps or tries to help or tries to obtain help from another candidate or communicates or tries

to communicate with any other person other than an Invigilator when the examination or test has

begun;

(iii) He/she causes disturbance in the examination venue, or acts in an improper or unseemly manner and

refuses to comply after a warning issued by an Invigilator to cease such disturbance, improper

conduct, or destroys what would have been evidence of such conduct.

10.2.3.13 While an examination is in progress the following shall be observed:

(i) A candidate shall not copy or attempt to copy from another candidate or engage in any similar activity;

(ii) When a candidate needs any assistance; he/she may attract the attention of the Invigilator by raising his/her hand.

10.2.3.14 No candidate shall be allowed to borrow or lend any tools/equipment (e.g. calculator, pen, pencil, rubber, ruler, drawing instruments) from another candidate or asking the Invigilator to borrow or lend on behalf thereof in the examination room.

10.2.3.15 No candidate shall be allowed to take outside of examination room any used or unused answer booklet(s)/question paper(s).

10.2.3.16 A candidate shall not in any way interfere with the stapling of the answer booklets. Any complaints about the answer booklet should be brought to the attention of the Invigilator.

10.2.3.17 No candidate shall be allowed to possess and use programmable calculators or calculators with facilities for storing and retrieving text; smart watch, smart pen, portable computers, electronic organizers, mobile phones and other electronic devices capable of communicating directly with similar nature.

10.2.3.18 Any candidate found with unauthorized material(s) or device(s) in the examination room; shall be deemed

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guilty of examination irregularity. The found unauthorized materials or devices shall be immediately

confiscated by the Invigilator and the University will be under no obligation to issue the candidate with a

replacement of unauthorized material(s) or device(s).

10.2.3.19 All rough work shall be done at the back of the answer booklet(s) and must be cancelled showing not being part of the solutions/answers.

10.2.3.20 No candidate is allowed to write anything on the question paper(s). Any written information on question paper will be treated as an unauthorized material(s).

10.2.3.21 No candidate is allowed to write anything on the Examination ID Card. Any written information on Examination ID Card will be treated as an unauthorized material(s).

10.2.3.22 Provision for examination offence(s) and penalty (ies) stipulated in these regulations shall apply to any student found guilty of any offence(s).

10.2.4 Supervision and Invigilation of Examinations

10.2.4.1 The principal who shall also be the Chief Invigilator shall appoint a Supervisor for each examination session.

10.2.4.2 For each examination, there shall be the Supervisor and Invigilator appointed by the Principal of the College as the case may be, in consultations with Heads of Departments or other appropriate authority.

10.2.4.3 The Invigilator must report at the examination venue at least half an hour before the commencement of the examination.

10.2.4.4 The Supervisor and the Invigilator shall be responsible in ensuring that no candidate is allowed to enter into the examination room with unauthorized material.

10.2.4.5 The Invigilator shall allow candidates to enter in the examination room half an hour to time.

10.2.4.6 When candidates are seated, the Invigilator shall make sure that:

- (i) Candidates are in possession of the correct paper;
- (ii) Candidates read carefully the instruction on the examination paper;
- (iii) Candidates commence examination on the specified time.

10.2.4.7 The Invigilator shall not allow any candidate who reports half an hour late to sit for examination after the commencement of the examination.

10.2.4.8 When the examination is in progress; the Invigilator shall mark the attendance list, check the Student ID Card and Examination ID Card and note every instance of absence. In so doing, the Invigilator shall satisfy him/herself that the student is qualified to do the semester examination.

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10.2.4.9 The Supervisor/Invigilator may permit a candidate to leave the examination room temporarily for only five

(5) minutes on genuine reason(s). The given Invigilator must designate another Invigilator/examination

attendant to accompany the candidate. In such a case the Invigilator shall keep records of candidate(s) who leave the examination room temporarily.

10.2.4.10 The Supervisor/Invigilator shall move around the examination room(s) as often as he/she deems necessary.

10.2.4.11 The Supervisor/Invigilator shall not engage himself/herself in any activity other than invigilation during the examination.

10.2.4.12 The Supervisor/Invigilator shall announce to candidates at reasonable intervals (e.g. one hour gone, half an hour left, etc.) the time available to them from time to time and eventually must announce for examination stoppage.

10.2.4.13 On stoppage of examination, the Invigilator shall instruct candidates to leave the answer booklets appropriately labelled and question papers on their tables, collect answer booklets and instruct candidates to leave the examination room.

10.2.4.14 The Invigilator shall count all answer booklets against the attendance list, for submission to the Head of Department or any authorized person. It shall be the responsibility of the Head of Department to verify the booklets. The supervisor/Invigilator shall also return all unused answer booklets, question papers and other materials to the Head of Department Office.

10.2.4.15 The Supervisor/Invigilator shall fill and submit irregularity report form on each examination to the Examinations Officer and copied to the Head of Department who will eventually report to the appropriate authority.

10.2.4.16 The examination irregularity report from relevant authority shall be forwarded to the University Senate.

Based on its review, the Senate may nullify the results of that examination and discontinue the candidate; or if proved otherwise, the candidate shall be reinstated accordingly.

10.2.4.17 If a candidate is suspected of an examination irregularity, the following procedures shall be followed:

- (i) The Invigilator shall approach the candidate immediately after suspicion/discovery;
- (ii) The Invigilator shall collect all unauthorized materials;
- (iii) The Invigilator shall require a candidate to sign on the Invigilator's Examination Irregularity Form of the issue (collected material(s), time and place);
- (iv) The Invigilator shall require other nearby Invigilator(s) to sign as witnesses of the offence made by the given candidate;
- (v) The Invigilator may also require other nearby candidate(s) to sign as witnesses of the offence made by the given candidate;

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(vi) The Invigilator shall allow the candidate to proceed with examination but his/her all results will be

withheld pending to decision of concerned University Authority.

10.2.4.18 In case of failure or refusal to sign on the Invigilator's Examination Irregularity Report, the suspected candidate's action shall be deemed a contempt of the University Authority, and shall mean accepting or causing commotion in the examination room, which is tantamount to violation of examination regulations and this shall lead to discontinuation from studies.

10.2.4.19 The Invigilator shall be assisted by VAI whose information are legally and legitimately acceptable for any examination proceeding.

10.2.4.20 The Invigilator shall adhere to all provisions as stipulated in these Examination Regulations.

10.2.5 Absence from Examinations

10.2.5.1 A candidate who for genuine reason(s) has not completed Semester Examination(s) (SE) in a course(s) shall apply for by writing the letter to the University within the first week of missing the examination(s) and he/she will be awarded PEX status. Such a student shall be eligible to sit for special semester examination(s) as the first attempt in a given semester during supplementary examination session provided that he/she has all Continuous Assessment (CAs) for that particular course (s).

10.2.5.2 In case a candidate has incomplete in SE and has supplementary examinations, he/she will be allowed to sit for special Semester Examination as well as the supplementary examinations. However, results of supplementary examinations shall not be considered unless the GPA amounts 1.8 or above after considering firstly the results of Special Examination(s).

10.2.5.3 In case, a candidate's results do not amount to the GPA of 1.8 after considering firstly special examination(s) results; his/her supplementary examination(s) shall not be considered and the candidate shall be automatically discontinued from studies.

10.2.5.4 A candidate who falls sick during the examination period shall inform his/her Head of Department immediately with assistance of Invigilator and report to the University Health Centre. (i) If this leads to inability to sit for some or all courses, a certified medical report from the MUST Medical Officer In-charge shall be forwarded to his/her Head of Department not more than two days after the incidence.

(ii) A candidate found to have cheated and/or forged medical report during semester examination shall be deemed guilty of examination irregularities; and shall have absconded the given examination(s).

10.2.5.5 A candidate who misses any scheduled Continuous Assessment (ie. quiz, individual assignment, group assignment, presentation or test), Semester Examination, Supplementary/Special Examination, Carry over Examination or IPT/FPT/TP without genuine reason(s) shall be absconded, and eventually he/she will be discontinued from studies.

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10.2.6 Releasing of Examination Results

10.2.6.1 The provisional semester examination results shall be released through SIMS after three weeks from the last date of the semester examination.

10.2.6.2 The provisional supplementary/special examination results will be released after two weeks from the last date of the examination.

10.2.6.3 Undergraduate Studies Committee shall release the Provisional Examination Results after recommending to the Senate.

10.2.7 Conditions for Proceeding to Next Level

10.2.7.1 A candidate shall proceed in the following academic year of study after attaining a minimum overall GPA of 2.0 or above in the given academic year of assessment with a minimum total of 120 course credits.

10.2.7.2 A candidate who fails to pass in any course assessed by continuous assessment only shall carry over once the failed course(s) in the subsequent academic year provided that, his/her overall GPA of 2.0 is attained.

10.2.7.3 A candidate who fails to pass in any course after sitting for supplementary examination(s); shall carry over the failed course(s) once in the subsequent academic year during the Regular Semester Examination Session provided that, his/her overall GPA of 2.0 is attained.

10.2.7.4 In case, a candidate's results do not amount to the GPA of 2.0 after sitting for supplementary examination(s) shall be automatically discontinued from studies.

10.2.7.5 A candidate who fails to pass in any course after sitting once for carry over; shall be discontinued from studies in the given academic year.

10.2.7.6 The highest mark awarded in the carry over(s) shall be minimum passing grade i.e. Grade 'C' and this will be used in the calculation of overall GPA.

10.2.7.7 A candidate whose overall GPA is less than 1.8 in the first sitting of the academic year shall be discontinued from studies in the given academic year of assessment.

10.2.8 Specific Conditions of Design Studio Course for Architecture Students

10.2.8.1 No architecture student shall be allowed to proceed with the next class with a failed design studio grade (ie. D or F).

10.2.8.2 These procedures will be followed when the architecture student fails the design studio course,

i) If a student fails semester I design studio, he/she will be allowed to continue with Semester II Design

Studio and resubmit the failed Semester I Design Studio (or together with failed Semester II Design

Studio) during Supplementary Examinations session.

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ii) If the student fails the resubmissions during Supplementary Examinations session, he/she will not

be allowed to continue with next year studies instead he/she will be required to carry the failed

studios to next year.

iii) If the student passes the carry, he/she will be allowed to continue with next year.

iv) If the student fails the carry, he/she will be discontinued from studies.

v) While resubmitting Design Studio course, a student shall:

a) Resubmit the Design Studio course only once in a given academic year.

b) Attend all the remedial classes or consultations (if any) during the carry period under guidance of his/her supervisor.

vi) If a student has resubmitted Design Studio course the better of the two grades, he/she has obtained

in that course shall be used in the computation of his/her Cumulative Grade Point Average (CGPA).

The repeated effort shall be recorded on the permanent record, but not count as credit earned.

vii) If a student fails to resubmit Design Studio course during supplementary examinations period for

justified reasons, he/she will be allowed to do the so-called special resubmission during

supplementary examinations period in the next academic year.

viii) When waiting for the Special resubmission, the student will not be allowed to join the next year

until he/she passes the Special resubmission examination.

10.3 EXAMINATION IRREGULARITIES AND PENALTIES

10.3.1 Discontinuation

10.3.1.1 A candidate who is found engaging himself/herself in smoking, eating or drinking of beverages or doing other

acts that may cause nuisance in the examination room; shall be deemed guilty of irregularity, stopped from

continuing with the given examination and eventually discontinued from studies.

10.3.1.2 A candidate found borrowing or lending any tools/equipment (e.g. calculator, pen, pencil, rubber, ruler,

drawing instruments) from another candidate without asking permission from the Invigilator in the

examination room; shall be discontinued from studies.

10.3.1.3 A candidate found late 30 minutes after examination commencement shall be deemed guilty of examination

irregularity and shall be discontinued from studies.

10.3.1.4 A candidate found leaving examination room before 30 minutes after commencement of examination; shall

be deemed guilty of examination irregularity and shall be discontinued from studies.

10.3.1.5 A candidate who intentionally absent him/herself from attempting any scheduled Continuous Assessment (s),

End of Semester Examination(s) or Supplementary/Special/Carry Over Examination without genuine

reason(s) shall be treated as absconded and eventually discontinued from studies.

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10.3.1.6 A candidate found cheating and/or forging medical report of his/her absence during semester examinations

shall be deemed guilty of examination irregularities; and shall have absconded the given examination(s) and

eventually discontinued from studies.

10.3.1.7 Any candidate found with possession or access of unauthorized materials as assistance in his/her examination

shall be deemed guilty of examination irregularities; and shall have failed the whole examination and

eventually discontinued from studies.

10.3.1.8 A candidate talking or communicating or making an arrangement to another candidate or any person for

assistance during the examination session; inside or outside the examination room without the permission of

an Invigilator shall be deemed guilty of examination irregularities; and shall have failed the whole examination

and eventually discontinued from studies.

10.3.1.9 A candidate found copying or indulging in copying or giving another candidate answer book/question paper for copying with the intention of assistance shall be deemed guilty of examination irregularities; and shall have failed the whole examination and eventually discontinued from studies.

10.3.1.10 A candidate found writing on any other piece of paper, parts of the body or anywhere, a question set in the paper or anything connected with a question set the paper or solution thereof shall be deemed guilty of examination irregularities; and shall have failed the whole examination and eventually discontinued from studies.

10.3.1.11 A candidate found passing/receiving or attempting to pass on or receive, a copy of question set in the paper or question paper itself or a part thereof or a solution of a question paper, during the examination session shall be deemed guilty of examination irregularities; and shall have failed the whole examination and eventually discontinued from studies.

10.3.1.12 A candidate found possessing of solution to a question set to the paper in collusion with any member of supervisory or any other staff or some outside agency shall be deemed guilty of examination irregularities; and shall have failed the whole examination and eventually discontinued from studies.

10.3.1.13 A candidate found smuggling in the answer book or taking out or arranging to send out an answer book or continuation sheet, during or after the examination with or without the help or collusion of any person connected with the examination room or of any agency within or outside examination room shall be deemed guilty of examination irregularities; and shall have failed the whole examination and eventually discontinued from studies.

10.3.1.14 A candidate found writing outside the examination room an answer book or continuation sheet for a candidate, which the letter smuggles into the examination room or to replace the answer book of the candidate after the examination shall be deemed guilty of examination irregularities; and shall have failed the whole examination and eventually discontinued from studies.

10.3.1.15 A candidate found showing misconduct or misbehaving towards the Invigilator or any member of the

supervisory staff shall be deemed guilty of examination irregularities; and shall have failed the whole

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examination and eventually discontinued from studies.

10.3.1.16 A candidate found impersonating another candidate shall be deemed committed irregularities and thereof shall

be discontinued from studies, also that person may be reported to the police.

10.3.1.17 A candidate for whom the impersonation was attempted shall be expelled from the University and discontinued from studies.

10.3.1.18 A candidate obtaining admission/forging ID for the examination on the false representation made by a

candidate himself/herself shall be deemed guilty of examination irregularities; declared ineligible for the given

examination and discontinued from studies and may be reported to the police.

10.3.1.19 A candidate forging another person's signature on a student's examination registration form or using a forged

document knowing it to be forged and with a view to seeking admission shall be deemed guilty of examination

irregularities; declared ineligible for the given examination and discontinued from studies and may be reported to the police.

10.3.1.20 A candidate leaving the examination room without delivering the answer book to the concerned Invigilator

and taking away answer book with him/her or internationally tearing off or otherwise disposing off his/her

answer book or any part thereof or the continuation sheet or part thereof inside or outside the examination

room shall be deemed guilty of examination irregularities; and shall have failed the whole examination and

eventually discontinued from studies.

10.3.1.21 A candidate approaching or influencing directly or indirectly a member of the University staff regarding

his/her cheating case; shall be deemed guilty of examination irregularities; and shall have failed the whole

examination and eventually discontinued from studies.

10.3.1.22 A candidate swallowing or attempting to swallow a note or paper or snatching or cause disappearance or

destroy any unauthorized material; shall be deemed guilty of examination irregularities; and shall have failed

whole examination and eventually discontinued from studies.

10.3.1.23 A candidate attacking physically or verbally the Invigilator or any member of supervisory staff; shall be

deemed guilty of examination irregularities; and shall have failed the whole examination and eventually discontinued from studies.

10.3.1.24 A candidate found cheating and/or forging medical report during semester examination shall be deemed guilty of examination irregularities; and shall have absconded the given examination(s) and eventually discontinued from studies.

10.3.1.25 A candidate found communicating or attempting to communicate directly or indirectly through a relative, guardian or friend with an examiner for the purpose of influencing him/her on award of marks; shall be deemed guilty of examination irregularities; and the given examination results shall be nullified and eventually discontinued from studies.

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10.4 APPEAL

10.4.1 Appealing Procedures

10.4.1.1 A student who is not satisfied with his/her Examination Results or decision shall appeal in writing using an Appeal Form, and submit within a period not exceeding fourteen (14) days from the date of released

Provisional Examination Results. The Appeal Form will be accepted after the student has paid the prescribed

appeal fee and submit it through the following address:

Deputy Vice Chancellor Academics, Research and Consultancy

Mbeya University of Science and Technology,

P.O. Box 131 MBEYA.

10.4.1.2 A request for an appeal hearing shall be accompanied by non-refundable fee, prescribed by the University, for a course (s) or for any other academic ground(s) of appeal made to the University. Such a fee(s) shall be revised from time to time.

10.4.1.3 Time frame for appeal hearing shall be set to facilitate speedy and prompt hearing as per procedure, so as to ensure that study progression from one UQF level to another is not interfered.

10.4.1.4 The Senate Appeals Committee shall, on the basis of the laid down guidelines and procedures, hear the appeal, investigate, discuss and make recommendations accordingly.

10.4.1.5 In case of the necessity for re-marking, Principal shall appoint a suitable expert(s) in the relevant course to be a third marker. Third marker shall re-mark the respective script(s) using the same marking scheme used by the

internal and external examiners.

10.4.1.6 Marks from the third marker shall be tabled before the College Board on behalf of Senate Appeals Committee for provisional approval before the final approval by the Senate.

10.4.1.7 The decision made by the Senate on any academic matter for a student shall be final.

10.4.1.8 All appeals should follow the procedures outlined in the Examination Regulations. No appeal will be considered where:

i) The candidate appeals for re-marking but fails to establish reasonable grounds for prejudice,

incompetence, or lack of integrity on the part of the Internal Examiner;

ii) It arises for the first-time issues concerning the supervision, teaching or coursework assessment. Such

matters should only be considered if they have been raised by the student promptly and in writing, at

the time they first arose; and

iii) A student alleges illness or other factors although he/she had an opportunity to postpone studies or

examinations(s) but voluntarily opted not to take that opportunity.

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10.5 PLAGIARISM

10.5.1 Plagiarism Cases

10.5.1.1 Commitment of plagiarism to a candidate shall be considered if:

(i) The candidate has fabricated or falsified results/data;

(ii) The candidate has submitted the same, or substantially the same work more than once at the same or another institution;

(iii) The candidate has submitted or presented the work of another person as his or her own;

(iv) The candidate has submitted false records, information or documents;

(v) The candidate has omitted due acknowledgement of the work of another person;

(vi) There is collusion i.e. when two or more candidates collaborate to produce the same work submitted by

each, without prior formal permission for such collaboration;

(vii) The candidate has used, by payment or otherwise, a third party to produce Research Project report or any assignment write-up in whole or in part.

10.5.1.2 All plagiarisms stated from 5.1.1 (i) to (vii) shall be checked and certified by the mandated supervisor, examiner,

Head of Department or mandated member of the various responsible committees.

10.5.1.3 All cases of alleged plagiarism shall be reported to the DVC ARC who shall refer to Director of Undergraduate

Studies for investigation.

10.5.1.4 The minimum tolerable level for plagiarism shall be 25% of the whole assignment, research or project proposal, research or project report.

10.5.1.5 A candidate found guilty in plagiarizing any assignment, research or project proposal, research or project report or part thereof; he/she shall be discontinued from studies.

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10.6 AWARD OF ACADEMIC CERTIFICATES AND TRANSCRIPTS

Academic Certificates and Transcripts will be awarded to student who has a status of pass for all his/her examination from the year of registration to final year.

10.6.1 Grading System, Award Classification and Computation of GPA

(a) Grading System

Grades and Grade Points for each course shall be assigned with reference to ranges of scores as indicated below:

Score Range	Grade	Grade Points	Definition of Grade
70-100	A	5	Excellent
60-69	B+	4	Very good
50-59	B	3	Good
40-49	C	2	Fair
35-39	D	1	Weak
0-34	E or F	0	Poor

(b) Classification of Awards

(i) The GPA for final Degree or Diploma shall be computed from credits and grades classified as indicated below:

Class of Award	Division	Cumulative GPA
First Class	Upper	3.5 – 4.3
	Lower	2.7 – 3.4
	Pass	2.0 – 2.6

(ii) A Class with Honour shall be awarded to a Bachelor Degree student whose cumulative GPA falls in First Class or Upper

Second-Class award and he/she did not supplement or carry over any course during his/her studies.

(c) Computation of GPA

(i) Overall GPA shall be computed from the summation of all products for course credits and grade

points divide to the summation of all course credits for the two semesters in a particular academic

year.

Overall GPA = Sum of (P × C)

Sum of C

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(ii) Cumulative GPA shall be the combined GPA of all academic years of studies computed from the summation of all products for course credits and grade points divide to the summation of all course credits.

Where;

P: Grade points assigned to a letter grade scored by the student in a given course

C: Number of credits associated with the course.

10.6.2 Conditions for Awards

A student shall be deemed eligible for the award of Academic Transcript and Certificate of Graduation, if there is evidence that; a student has completed and passed all courses for the award and has fulfilled all terms and conditions established by the University.

10.7 REPLACEMENT OF ACADEMIC TRANSCRIPTS AND CERTIFICATES

10.7.1 Procedures for Replacement of Academic Transcripts and Certificates

10.7.1.1 In occurrence of loss, partly or complete destruction of the original certificates/transcript or copy thereof, the University may be responsible to issue a certified copy of certificate based on the following conditions for a student:

- (i) Producing the evidence of the loss from the police;
- (ii) Producing evidence of the public announcement from the Government Gazette; and
- (iii) Producing a sworn affidavit.

10.7.1.2 The certificate shall be issued until a period of 12 months has elapsed from the date of such a loss.

10.7.1.3 The transcript shall be issued until a period of one month has elapsed from the date of such a loss.

10.7.1.4 The academic certificate and transcript shall be replaced by paying a non-refundable fee of Tsh 100,000/= (one hundred thousand only) and Tsh 20,000/= (twenty thousand only) respectively. The fees are subject to review by Senate from time to time.

10.8 REVIEW OF UNDERGRADUATE EXAMINATION REGULATIONS

These Examination Regulation are subject to review from time to time as need arises.

Cumulative GPA = $\text{Sum of } (P \times C)$

Sum of C

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1.0 INTRODUCTION

1.1 VICE CHANCELLOR'S MESSAGE

Mbeya University of Science and Technology (MUST) provides Technical Education, Research and Consultancy

services. Due to rapid technological changes in the world today in many fields, there are ever widening technical

skill gaps in the labour market for scientists, technicians and engineers. MUST has set for itself the task of responding

to these changes at the same pace as that at which the technology is changing by making frequent reviews of its

curricula and developing new curricula and Programmes to fit and fill the skill gaps that new technologies pose.

MUST, therefore play its role of training scientists, engineers and technologists in numbers and quality so as to

spearhead development in the public and private sector.

1.2 HISTORICAL BACKGROUND

Mbeya University of Science and Technology (MUST) is a result of the transformation of Mbeya Institute of Science

and Technology (MIST) through the University Act No. 7 of 2005 and the Charter of Mbeya University of Science

and Technology, 2013. The Institute was a result of the transformation of the former Mbeya Technical College

(MTC) through the National Council for Technical Education (NACTE) Establishment Order No. 9 of 2004 and

Section 9 of the NACTE Act of 1997. MTC was officially launched on 1st September, 1986.

The transformation from MTC to MIST and then MUST was done to fulfill a long-term plan, made during the first

phase Government, under the then President of the United Republic of Tanzania, the late Mwalimu Julius Kambarage

Nyerere.

In a bid to expand and offer services to a wider client base, in 2015, Mbeya University of Science and Technology

(MUST) acquired a new Campus (MUST Rukwa Campus College) which is in the Rukwa Region.

1.3 LOCATION

Mbeya University of Science and Technology has two campuses. The Main Campus is located in Mbeya City in the

Southern Highlands of Tanzania 10 km outside the city center and about 3 Km from the Mbeya – Tunduma Highway.

The road to MUST branches from the highway at the Iyunga/Ituta – TAZARA area. MUST Rukwa Campus College is located at Kianda along the Tunduma- Sumbawanga road, about 50 km from Sumbawanga.

1.4 VISION, MISSION AND OBJECTIVES OF THE UNIVERSITY

1.4.1 VISION

The vision of Mbeya University of Science and Technology is to become the leading centre of excellence for knowledge, skills and applied education in Science and Technology.

1.4.2 MISSION

The mission of Mbeya University of Science and Technology is to develop academically, technologically and socially competent students, staff and other stakeholders who will be responsive to the broader needs and challenges of the society specifically by:

- i. Facilitating appropriate tuition, practical training and support according to the needs of students and other customers.
- ii. Encouraging staff commitment to quality education and services including research, consultancy and innovation.
- iii. Fostering lifelong learning, honesty and responsibility.
- iv. Promoting an environment conducive to human development.

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- v. Promoting effective entrepreneurship and usage of appropriate technology that meet national and international needs and standards through skills and practical oriented training, research and consultancy.

1.4.3 UNIVERSITY OBJECTIVES

- i. To offer training in science and technology, technical education and other training, thus developing a critical mass of highly trained manpower.
- ii. To formulate plans for the promotion, technological development and improvement of the quality of education and training being offered to students and other stakeholders.
- iii. To promote and encourage innovation, initiative and readiness amongst staff and students in their fields of specialization and study.
- iv. To collaborate with other institutions nationally and internationally in the initiation, promotion and conduct of technical education, science and technology Programmes.
- v. To carry out any other assignments given by the government through its various organs.

1.5 ACCREDITATION

Mbeya University of Science and Technology is fully registered and accredited by the Tanzania Commission for Universities (TCU) to conduct higher education Programmes.

1.6 MEMBERSHIP

Mbeya University of Science and Technology is a member of the following Institutions;

- i. The Association of Technical Universities and Polytechnics in Africa (ATUPA),
- ii. Commonwealth of Learning (CoL),
- iii. Inter University Council for East Africa (IUCEA),
- iv. African Network of Scientific and Technical Institutions (ANSTI) and
- v. Southern African Regional Universities Association (SARUA).

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1.7 SENIOR OFFICERS OF THE UNIVERSITY

Chancellor

Hon. Amani Abeid Karume

Chairperson of the University Council

Hon. Zakia Hamdani Meghji

1.8 MEMBERS OF THE COUNCIL

Hon. Zakia Hamdani Meghji

Chairperson of the University Council

Prof. Aloys N. Mvuma

Vice Chancellor (ex-officio)

Prof. Godliving Mtui

Ag. Deputy Vice Chancellor Academic, Research and Consultancy (ex-officio)

Dr. John P. John

Ag. Deputy Vice Chancellor Planning, Finance and Administration (ex-officio)

Prof. Ladslaus Laurent Mnyone

Director of Technology and Innovation - Ministry of Education, Science and Technology

Prof. Bakari M. Mwinyiwiwa

Principal of the College of Engineering and Technology- University of Dar es Salaam

Prof. Lughano Kusiluka

Vice Chancellor- University of Dodoma

Ms. Lilian Marwa

Principal Finance Management Officer

Ms. Jenifer Tondi

Southern Highland Zonal Manager- CRDB

Ms. Leticia Paschal Lutambi

Women Committee Coordinator- Tanzania Higher Learning Institutions Trade Union (THTU) –MUST

Dr. Duwa Chengula

Chairman of MUST Academic Staff Association (MUSTASA)

Mr. Hemed Bakari Ikoki
President of MUST Students' Organization (MUSTSO)
Adv. Lugano Mwakilasa
Corporate Counsel/Secretary to the Council
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1.9 EXECUTIVE OFFICERS OF THE UNIVERSITY

Vice-Chancellor

Prof. Aloys N. Mvuma – PhD (Hiroshima, Japan), MSc. CIS (Shimane, Japan), BSc. Eng (UDSM).

Ag. Deputy Vice Chancellor Academic, Research and Consultancy (ex-officio)

Prof. Godliving Mtui – PhD (Kanazawa), MSc (Kanazawa), BSc. Hons (UDSM).

Ag. Deputy Vice Chancellor Planning, Finance and Administration (ex-officio)

Dr. John P. John - PhD. Energy Eng. (Berlin Tech. University-Germany), MSc. Elect. Eng. (UDSM), B. Eng. Elect.

(DIT), FTC. (ATC).

Ag. Principal MUST Rukwa Campus College

Dr. Joachim J. Mwambeleko - PhD in Electrical Engineering (SUT – Thailand), M.Eng. in Electrical Engineering

(SUT- Thailand), B.Sc. in Electrical Engineering (SAUT-Mwanza).

Ag. Principal of the College of Engineering and Technology

Prof. Zacharia Saimon Katambara - PhD (WITS), MSc Eng. (UDSM), BSc. Eng (UDSM).

Principal of the College of Science and Technical Education

Dr. John P. John - PhD. Energy Eng. (Berlin Tech. University-Germany), MSc. Elect. Eng. (UDSM), B. Eng. Elect.

(DIT), FTC. (ATC).

Ag. Principal of the College of Architecture and Construction Technology

Dr. Ramadhani S. Tekka - PhD in Management Science and Engineering (Chongqing University), MEM (UDSM),

BSc. in Geomatics (UDSM).

Ag. Principal of College of Humanities and Business Studies

Dr. Emmanuel Tonya- PhD (OUT), B. Com-Marketing, MBA –Marketing (OUT).

Ag. Principal of the College of Information & Communication Technology

Dr. Juma S. Ally – PhD in ICE (USTC, China), MSc. in CIS (HUST, China), BEng. in TE (HUST, China).

Ag. Principal of the College of Agricultural Sciences and Technology

Dr. Eliezer Brown Mwa.kalapa- PhD. Veterinary Sciences (Norwegian University of Life Sciences, Norway); MSc.

Marine Sciences (UDSM); BSc. Aquaculture (SUA).

Director of the Internationalization and Convocation Unit

Dr. Buberwa M. Tibesigwa - PhD Eng. In Architecture (Chongqing University, China), M.Arch. (HIT China) B.Arch.

(University of Dar es Salaam).

Director of Quality Assurance

Dr. Lulu C. Luflenge - PhD (PJ TSAU), MA (Rural Development) (SUA), BSc (Home Economics and Human Nutrition) (SUA).

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Director of the Center for Innovation and Technology Transfer

Dr. Juma A. Mpangule - PhD in Civil Engineering and Construction Management (Technical University Dortmund, Germany), MSc. Const. Mgt (ARU), BSc (BE) – UDSM

Ag. Director of the Centre for Gender Studies

Dr. Philipina F. Shayo- PhD (Biod.. and Ecosyst. Mgt.) (NMAIST); MSc. Env. Mgt-NRM (The University of Queensland, Australia); BSc. Forestry (SUA); Diploma in Forestry (FTI, Olmotonyi).

Director of Postgraduate Studies, Research and Publication

Prof. Asheri Mwidege - PhD (SUA); MA Econ. BSc. Ed. (UDSM), Dip. In Ed. (Mkwawa).

Ag. Director of Undergraduate Studies

Dr. Muya S. Mgaza - PhD in Geotechnical Engineering (HUST) Msc in Geotechnical Engineering (HUST), BSc in Geology (UDSM).

Director of Administration and Human Resource Management

Mr. Michael Gwisu Masanja - Master of Business Administration (University of Dar es Salaam), Bachelor of Arts (University of Dar es Salaam).

Director of Finance

Ms. Willieth Tilwetwa – MBA Finance (OUT), CPA (NBAA) & Adv. Dipl. Acc. (IAA).

Director of Planning and Development

Mr. Cornel Msemwa - MBA (SUA), BSc. FST (SUA).

Director of Library Services

Mr. Novatus Luanda – MA. (UDSM), BA. (UDSM), DIP (NYEGEZI).

Ag. Director of Information and Communication Technology Services

Mr. Imani Mwalumbwe - MSc (UDSM), MBA (Coventry Univ), PGD (UDSM), Adv.Diploma (IFM).

Director of MUST Consultancy Bureau

Mr. Ivor J. Ndimbo - Master of Technology in Water Resources Development. (IIT-Roorkee INDIA), BSc. Civil Engineering (UDSM).

Chief Internal Auditor

Mr. Frank Kindimba - MBA Finance (ASSAM, India), CPA (NBAA) & BAF (MU).

Director of Estates Management

Dr. Hieronimi Mboya- PhD in Material Science and Engineering (Structural Materials), Msc. Structural Engineering,

Postgraduate Diploma- Structural Engineering, Advanced Diploma-Civil Engineering.

Director of Students Affairs

Mr. Augustine Matem - MA in Ed. (UDOM) BSc. Ed. (UDSM), Dip.Ed. (MKWAWA).

Corporate Counsel

Adv. Lugano Mwakilasa - LL.M. (UDSM) LL.B. (Tumaini University - Iringa).

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1.10 ACADEMIC ORGANS

Mbeya University of Science and Technology consists of five (5) Colleges and one (1) Campus College.

1.10.1 DEPARTMENTS UNDER THE COLLEGE OF ENGINEERING AND TECHNOLOGY (CET)

- i. Department of Civil Engineering;
- ii. Department of Electrical and Power Engineering;
- iii. Department of Geosciences and Mining Technology;
- iv. Department of Mechanical and Industrial Engineering; and
- v. Department of Chemical and Environmental Engineering.

1.10.2 DEPARTMENT UNDER THE COLLEGE OF ARCHITECTURE AND CONSTRUCTION TECHNOLOGY (CoACT)

- i. Department of Architecture and Art Design;
- ii. Department of Construction Management and Technology; and
- iii. Department of Urban Planning and Real Estate Studies.

1.10.3 DEPARTMENT UNDER THE COLLEGE OF INFORMATION AND COMMUNICATION TECHNOLOGY (CoICT)

- i. Department of Computer Science and Engineering;
- ii. Department of Electronics and Telecommunications Engineering;
- iii. Department of Informatics; and
- iv. Department of Information Systems and Technology.

1.10.4 DEPARTMENTS UNDER THE COLLEGE OF SCIENCE AND TECHNICAL EDUCATION (CoSTE)

- i. Department of Applied Sciences;
- ii. Department of Medical Sciences and Technology;
- iii. Department of Natural Sciences;
- iv. Department of Technical Education;
- v. Department of Earth Sciences; and
- vi. Department of Mathematics and Statistics.

1.10.5 DEPARTMENTS UNDER THE COLLEGE OF HUMANITIES AND BUSINESS STUDIES (CoHBS)

- i. Department of Business Management; and
- ii. Department of Humanities.

1.10.6 DEPARTMENTS UNDER THE COLLEGE OF AGRICULTURAL SCIENCE AND TECHNOLOGY (CoAST)

- i. Department of Food Sciences and Technology; and
- ii. Department of Crop Science and Horticulture.

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1.10.7 DEPARTMENTS UNDER MUST RUKWA CAMPUS COLLEGE (MRCC)

- i. Department of Business Management; and
- ii. Department of Mechanical and Industrial Engineering.

1.11 CONTACT ADDRESSES AND TELEPHONE NUMBERS

General Administration Mbeya University of Science and Technology

P.O. Box 131

Mbeya, Tanzania.

General line: 255 (0)25 2957544 or 255 (0)25 2957542

Fax: 255 (0) 25 2957552

E-mail: must@must.ac.tz

Website: www.must.ac.tz

Vice Chancellor

P.O. Box 131, Mbeya

Tel: 255 (0)25 2957540

Fax: 255 (0)25 2957552

E-mail: vc@must.ac.tz

Deputy Vice Chancellor (Academic, Research and Consultancy)

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E-mail: dvcarc@must.ac.tz

Deputy Vice Chancellor (Planning, Finance and Administration)

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Secretary to the Council

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Fax: 255 (0) 25 2957552

Directorate of Undergraduate Studies

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Fax: 255 (0) 25 2957552

E-mail: dus@must.ac.tz

College of Engineering and Technology

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Fax: 255 (0) 25 2957552,

E-mail: coet@must.ac.tz

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Fax: 255 (0) 25 2957552

E-mail: coste@must.ac.tz

College of Architecture and Construction Technology

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

E-mail: coact@must.ac.tz

College of Humanities and Business Studies

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

E-mail: cohbs@must.ac.tz

College of Information and Communication Technology

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

E-mail: coict@must.ac.tz

MUST Rukwa Campus College

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2955048/9

Fax: 255 (0) 25 2957552

E-mail: mrcc@must.ac.tz

Industrial Linkage and Labour

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

E-mail: dillm@must.ac.tz

MUST Health Centre

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

E-mail: hc@must.ac.tz

Students' Organization (MUSTSO)

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

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Directorate of Postgraduate Studies, Research and Publications

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

E-mail: dpsrp@must.ac.tz

Centre for Virtual Learning and Continuing Education

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

E-mail: cvce@must.ac.tz

MCB

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

E-mail: mcb@must.ac.tz

Directorate of Students Services

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

E-mail: dss@must.ac.tz

Department of Examinations

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957549

Fax: 255 (0) 25 2957552

E-mail: de@must.ac.tz

Department of Admissions

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957550

Fax: 255 (0) 25 2957552

E-mail: admission@must.ac.tz

Communication and Marketing Unit

P.O. Box 131, Mbeya

Tel: 255 (0) 25 2957544

Fax: 255 (0) 25 2957552

E-mail: cmu@must.ac.tz

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1.12 STUDENTS SERVICES

1.12.1 MEDICAL AND HEALTH SERVICES

The University has a Dispensary, which provides clinical and health services. The Dispensary has full-time Medical Staff who attend students and University staff as well as the neighbouring community.

All students are required to join the National Health Insurance Fund (NHIF), which guarantees medical treatment at the University Dispensary and elsewhere.

All first-year undergraduate students are required to undergo a medical examination at the University Dispensary

and submit a medical report, including a chest X-ray, as part of the registration process. A fee of TZS 5,000 is applicable for this service.

1.12.2 STUDENTS WELFARE

The Directorate of Students Services (DSS) is responsible to provide administrative support for students, general information for both current and past students, personal and social at the University. The Director of Students Services is assisted by two Heads of Departments: Students Welfare Services and Students Governance. The head of Students welfare is assisted by Wardens, Janitors and Spots/Games Tutors. The directorate also provides the following facilities: residence, catering, games and sports. The Director of Students Services oversees the activities of students' organizations and provides general guidance and counselling in social, financial, academic and worship issues.

1.12.3 RESIDENCE

The University has limited on-campus accommodation spaces and therefore only few students accommodated in University hostels. The majority of students should find their own accommodation outside the campus. Students who secure on-campus accommodation are obliged to pay accommodation fees at an authorized rate. All payments for on-campus accommodation shall be made in advance and no student shall accommodated without payment of accommodation fee.

Currently, the University has four (4) hostel blocks with a capacity to accommodate 2100 students at a time. Priority for on-campus accommodation is given to certificate students, government sponsored Diploma students, female students, foreign students and those with disabilities. Regardless of the Programme one is undertaking, the University will not offer accommodation for students with children; such students will be required to look for their own accommodation off-campus. All students will be required to observe the student by-laws and Students Accommodation guidelines 2022.

1.12.4 MBEYA UNIVERSITY OF SCIENCE AND TECHNOLOGY STUDENTS' ORGANIZATION (MUSTSO)

Formal student activities are administered by the Mbeya University of Science and Technology Students Organization (MUSTSO). The organization deals with students' academic, social and recreational activities. Every

MUST full time registered student is automatically a member of MUSTSO. The students' organization shall address itself to aspects of representing students' interest in various decision-making bodies such as College boards, Senate, Council Committees and University Council. MUSTSO under leadership of its president is a formal active voice of students, within and outside the University. Under MUSTSO, there are other affiliated organizations such as religious and foreign students' organizations.

1.12.5 GAMES AND SPORTS

The University has sports facilities that include football grounds, volleyball, tennis, netball, and basketball courts.

Students are therefore, encouraged to participate in athletics, jogging, table tennis, football, basketball, and netball.

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Mbeya University of Science and Technology, takes part in sports and games competitions organized by various sports bodies, such as the East African University Sports Federation (S), East, Central and Southern African Universities Sports Association (ECSAUSA), the Federation of African University Sports (FASU) and Federation of International University Sports (FISU), Tanzania Universities Sports Association (TUSA).

1.12.6 CATERING SERVICES

Catering services at the University are free for Diploma Government sponsored students. The services are commercialized for all other students. Under commercialization, students are required to pay for their meals. The cafeteria services are outsourced to private catering service providers approved by the University to give the meal service to students. Students are not allowed to cook in the halls of residence and therefore are required to use the catering services approved by the University.

1.12.7 RELIGIOUS ACTIVITIES

MUST is a non-religious institution but it provides opportunities to students to participate in various faiths. Religious facilities and services are available on campus and students are free to join in any one of the religious groups existing in the University.

1.12.8 BANKING SERVICES

Financial facilities include (CRDB and NMB) Automatic Teller Machines (ATMs) which are installed within the

campus. Other services include money transfer facilities are provided by major mobile phone companies. Bank services are provided by Bank Agents within the campus and in the city centre.

1.13 UNIVERSITY LIBRARY

The Dr. Magufuli Library offers information services to support roles of the University in teaching, learning and research activities. It has well trained staff members who can assist in meeting user needs and, it provides huge and conducive reading space for users. Also, it provides information resources in both print and electronic formats in which the available print resources contain text and reference books for all courses offered at MUST including those in Engineering, Science and Technology, Technical Education as well as Business Administration. In addition, it has computer rooms to facilitate training and access to electronic resources in CD ROMS as well as online resources.

Furthermore, the Dr. Magufuli Library provides access to various international journal databases through annual subscription to those databases. Other services available in the library are: wireless internet, printing, photocopying, cloak room service where users can keep their bags while studying in the library.

Working Hours

During Semester During Vacation

08:30 am – 09:00 pm EAT (Monday – Friday) 8:00 am – 03:30 pm EAT (Monday – Friday)

08:30 am – 12:30 pm EAT (Saturday) Public Holidays: Closed

02:00 pm – 06:00 pm EAT (Sunday)

1.14 VIRTUAL AND CONTINUING EDUCATION SERVICES

The services on virtual and continuing education are offered by the Centre for Virtual and Continuing Education (CVCE). The CVCE has two departments: Virtual Education Department and Continuing Education Department.

The Virtual Education Department is responsible for coordinating online non-degree and degree programmes while the Continuing Education Department is responsible for coordinating face to face short courses at Campus. The

CVCE is the best place for educational development. Currently, the CVCE is developing curricula which will be offered through face-to-face sessions and distance education mode for non-degree educational certificate, virtual

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education degree and non-degree programmes. With this directorate, a learner will learn a specific topic of education

and be competent in that area of a discipline. Also, the CVCE offers short courses including Chinese language.

Furthermore, it conducts sensitization campaign annually by visiting various secondary schools in Tanzania to encourage female students as well as male students to opt for science subjects at secondary school level.

1.15 INNOVATION AND TECHNOLOGY TRANSFER SERVICES

The innovation and technology transfer services are offered by the Centre for Innovation and Technology Transfer

(CITT). The University established CITT to promote the generation of ideas, the creation of new knowledge,

technology licensing, intellectual property securing, venture capital and funding, and the development of business

plans and business growth. CITT is geared towards co-operation with science and business; it offers various types

of support for students and staff, start-ups and scale-ups. CITT also aims to contribute to Tanzania's social and

economic development by providing quality supervision and coordination of all inventions, innovation and

entrepreneurship activities and initiatives that result in the creation of spin-offs and start-ups, thereby contributing

to Tanzania's diversification and economic self-reliance of current and future generations. In this view, the role of

CITT is to foster creativity by bringing and managing innovative, technological, and entrepreneurship development.

Overall, CITT's mission is to provide objectives, guidelines, procedures, and standards for managing inventions,

innovations, entrepreneurship, and technology transfer activities through;

i. Developing, reviewing and implementing programmes, policies and guidelines in the field of innovation

and technology transfer;

ii. Monitoring and evaluating performance of innovation and technology transfer programmes;

iii. Facilitating training and mentoring of inventors and innovators through incubation, seminars, workshops

and boot camps;

iv. Managing research activities in liaison with the Directorate of Postgraduate Studies, Research and

Publications; and

v. Providing consultancy services in Liaise with the Directorate of Internationalization and Convocation Unit.

1.16 UNIVERSITY QUALITY ASSURANCE

The University's Quality Assurance mission is to create consciousness of quality standards and best practices,

facilitate and enhance quality by Compliance to the efficient and effective delivery of teaching, learning and research, services and overall governance through cooperation and interaction among staff members, students as well as the external stakeholders of Mbeya University of Science and Technology.

The objectives of the QA are to:

- i. Safeguard and ensure the integrity of academic awards of the University;
- ii. Provide guidance in development and implementation of quality assurance and enhancement procedures and practices;
- iii. Outline the internal and external quality assurance procedures and practices necessary to realize the vision and mission as well as uphold the core functions of the University;
- iv. Layout the structure to ensure that quality assurance systems are coordinated and managed with maximum effectiveness; and
- v. Facilitate development of a culture of self-evaluation and continuous quality improvement in the University.

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1.17 UNIVERSITY COLLABORATION

The University collaborates with peer universities and other higher learning institutions. Currently, the University is collaborating with various international higher learning institutions including; The University of Texas Rio Grande Valley (UTRGV), the University of Applied Sciences Burgenland in Austria, Southern Methodist University (SMU), Malawi University of Science and Technology, Kassel Through East Africa Network of Learning Administrators (EANLA), Hanze University of Applied Sciences in the Netherlands, Meru University of Science and Technology (MUST-Kenya), Chuka University in Kenya, Acharya Institutes (ACHARYA) in India. National wise, the University has Memoranda of Understanding in academic activities with the University of Dar es Salaam, Ardhi University (ARU), University of Dodoma (UoD), Confucius Institute at the University of Dar es Salaam, Sokoine University of Agriculture (SUA), Muhimbili University of Health and Allied Sciences (MUHAS), The Open University of Tanzania (OUT), Dar es Salaam Institute of Technology (DIT), Arusha Technical College (ATC), Ardhi Institute -Morogoro (ARIMO), Teofilo Kisanji University (TEKU) and The Technical and Vocational Education and Training (TVET).

Furthermore, the University is collaborating with other non-academic institutions and companies including;

- i. United Nations Development Program (UNDP),
- ii. Tanzania Industrial Research and Development Organization (TIRDO),
- iii. Small Industries Development Organization (SIDO),
- iv. Tanzania Communications Regulatory Authority (TCRA),
- v. e-Government,
- vi. Mbeya Cement,
- vii. MIC Tanzania Limited (TIGO),
- viii. HELP TO HELP,
- ix. All Green Energy,
- x. Rujewa Integrated Efforts to Fight Poverty (RIEFP),
- xi. HUAWEI,
- xii. Mwanza Polytechnic Institute (MWAPOI),
- xiii. K'S Hospital,
- xiv. Youth For Africa (YOA),
- xv. YARA Tanzania Ltd,
- xvi. Tanzania Geothermal Development Company (TGDC),
- xvii. Tanzania Agricultural Research Institute (TARI),
- xviii. Nature Tanzania,
- xix. Ifakara Health Institute,
- xx. Mbeya Zonal Referral Hospital,
- xxi. Universal Communications Service Access Fund (UCSAF) – Tanzania, and
- xxii. Tanzania Engineering and Manufacturing Design Organization (TEMDO).

2.0 UNIVERSITY CERTIFICATE, DIPLOMA AND BACHELOR DEGREE AWARDS

2.1 DIPLOMA AND BACHELOR DEGREES OFFERED BY THE COLLEGE OF ENGINEERING AND

TECHNOLOGY (CET)

- a) Diploma in Civil Engineering;
- b) Diploma in Highway Engineering;
- c) Diploma in Electrical and Electronic Engineering;
- d) Diploma in Mechanical Engineering;
- e) Diploma in Mechatronics Engineering;

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- f) Diploma in Mining Engineering;
- g) Diploma in Mechanical Engineering with Industrial Safety and Occupational Health;
- h) Diploma in Automotive and Auto electrical Engineering;
- i) Bachelor of Civil Engineering;
- j) Bachelor of Electrical and Electronic Engineering and
- k) Bachelor of Mechanical Engineering.

2.2 DIPLOMA AND BACHELOR DEGREE PROGRAMMES OFFERED BY THE COLLEGE OF ARCHITECTURE AND CONSTRUCTION TECHNOLOGY (CoACT)

- a) Diploma in Architecture;

- b) Bachelor of Technology in Architecture and
- c) Bachelor of Technology in Landscape Architecture.

2.3 DIPLOMA AND BACHELOR DEGREE PROGRAMMES OFFERED BY THE COLLEGE OF INFORMATION AND COMMUNICATION TECHNOLOGY (CoICT)

- a) Diploma in Computer Engineering;
- b) Diploma in Computer Science;
- c) Diploma in Information and Communication Technology;
- d) Diploma in Electronic and Telecommunication Engineering;
- e) Diploma in Business Computing;
- f) Bachelor of Computer Engineering;
- g) Bachelor of Computer Science;
- h) Bachelor of Science in Information and Communication Technology;
- i) Bachelor of Engineering in Telecommunication Systems; and
- j) Bachelor of Engineering in Data Science.

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2.4 DIPLOMA AND BACHELOR DEGREE PROGRAMMES OFFERED BY THE COLLEGE OF SCIENCE AND TECHNICAL EDUCATION (CoSTE)

- a) Diploma in Biomedical Equipment Engineering;
- b) Diploma in Laboratory Science and Technology;
- c) Diploma in Food Science and Technology;
- d) Diploma of Technical Education in Architectural Technology;
- e) Diploma of Technical Education in Civil Engineering;
- f) Diploma of Technical Education in Electrical and Electronic Engineering;
- g) Diploma of Technical Education in Mechanical Engineering;
- h) Diploma in Biotechnology;
- i) Bachelor of Technical Education in Architectural Technology;
- j) Bachelor of Technical Education in Civil Engineering;
- k) Bachelor of Technical Education in Electrical and Electronics Engineering;
- l) Bachelor of Technical Education in Mechanical Engineering;
- m) Bachelor of Science with Education in the following specializations;
 - Chemistry and Biology
 - Chemistry and Mathematics
 - Chemistry and Physics
 - Physics and Mathematics
- n) Bachelor of Laboratory Science and Technology;
- o) Bachelor of Science in Food Science and Technology
- p) Bachelor of Science in Natural Resources Conservation
- q) Bachelor of Science in Chemistry;
- r) Bachelor of Science in Biotechnology; and
- s) Bachelor of Science in Environmental Science and Technology.

2.5 CERTIFICATE, DIPLOMA AND BACHELOR DEGREE PROGRAMMES OFFERED BY THE COLLEGE OF HUMANITIES AND BUSINESS STUDIES (CoHBS)

- a) Certificate in Business Administration;

- b) Certificate in Agribusiness with Technology;
- c) Diploma in Business Administration;
- d) Diploma in Agribusiness with Technology;
- e) Diploma of Business Administration in Accounting and Finance;
- f) Diploma of Business Administration in Marketing and Entrepreneurship;
- g) Bachelor of Business Administration with the following specialization:
 - Accounting and Finance;
 - Human Resources Management;

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- Marketing and Entrepreneurship and
 - Procurement and Supply Chain Management.
- h) Bachelor of Agribusiness Management and Technology.

2.6 DIPLOMA AND BACHELOR DEGREE PROGRAMMES OFFERED BY THE COLLEGE OF AGRICULTURAL SCIENCES AND TECHNOLOGY (CoAST)

- a) Diploma in Food Science and Technology; and
- b) Bachelor of Science in Food Science and Technology.

2.7 CERTIFICATES, DIPLOMA AND BACHELOR DEGREE PROGRAMMES OFFERED BY MUST

RUKWA CAMPUS COLLEGE (MRCC)

- a) Certificate in Business Administration;
- b) Diploma in Business Administration;
- c) Diploma in Mechanical Engineering;
- d) Bachelor of Mechanical Engineering and
- e) Bachelor of Business Administration with the following specialization: -
 - Accounting and Finance
 - Human Resources Management
 - Marketing and Entrepreneurship
 - Procurement and Supply Chain Management.

3.0 ACTIVITIES UNDER THE CENTRE FOR VIRTUAL LEARNING AND CONTINUING EDUCATION

- i. Managing and Administering Short courses Programmes.
- ii. Managing and Administering Distance Learning Programmes.
- iii. Managing and administering courses through Flexible Skills Development.

4.0 GRADUATION AWARDS FOR STUDENTS

The following list indicates the types of academic awards/prizes offered by the University:

- i. Chancellor's Prize
- ii. University Best Female Student Award
- iii. Undergraduate Programme Award
- iv. Best Student's Final Project Award
- v. Best Research Award
- vi. Innovation Award
- vii. Individual/Organisation/Company Prizes

5.0 FEES AND BURSARIES

Students pursuing Diploma Programmes may join the University under either Government sponsorship, private sponsorship or may apply for scholarships or loans from the Higher Education Students Loan Board (HESLB) and Students pursuing Bachelor Programmes may apply for scholarships or loans from the Higher Education Students Loan Board (HESLB) also may join the University under private sponsorship.

Note: Fees may change due to prevailing circumstances. The fee structure for Government and privately sponsored students are as shown in the following tables:

5.1 FEE STRUCTURE FOR DIPLOMA STUDENTS (UQF 6)

5.1.1 GOVERNMENT SPONSORED STUDENTS

Table 1: Fee structure for Diploma government sponsored students in (TZS)

S/N	Item	1st Year	2nd Year	3rd Year
1.	Tuition fee (cost sharing fee)	- -	130,000	
2.	Other Expenses			
i.	Caution Money (Non-refundable)	20,000	- -	
ii.	Hiring University mattress	10,000	10,000	10,000
iii.	Hiring University bed	10,000	10,000	10,000
iv.	Library membership fees	30,000	30,000	30,000
v.	Examination fee	50,000	50,000	50,000
vi.	Certification	40,000	- -	
vii.	Students' Organization fee	10,000	10,000	10,000
viii.	Registration fee	10,000	10,000	10,000
ix.	Student's Identity Card	10,000	10,000	10,000
x.	Medical Contribution (NHIF)	50,400	50,400	50,400
xi.	Capitation fee	10,000	10,000	10,000
xii.	Prospectus	- - -		
xiii.	Quality Assurance fee (TCU)	20,000	20,000	20,000
xiv.	Graduation gowns	40,000	- -	
xv.	Transcript fee	10,000	- -	
	Sub-total; Other Expenses	320,400	210,400	210,400
	Total fees	320,400	210,400	340,400

Table 2: Payment Options (TZS)

Tuition fee - - 130,000

Other Expenses 320,400 210,400 210,400

Semester I 320,400 210,400 275,400

Semester II - 65,000

5.1.2 PRIVATE SPONSORED STUDENTS (UQF 6)

Table 3: Fee structure for Diploma in Engineering, Architecture, Science Courses and Business computing (1st Year) private sponsored students in (TZS)

S/N	Item	In campus	Off campus
	Meals and accommodation	Accommodation Only	
1	Tuition fee	900,000	900,000
2	Other Expenses		
i.	Meal Costs	1,176,000	
ii.	Accommodation Fee	107,100	107,100
iii.	Caution money	20,000	20,000
iv.	Library membership fees	30,000	30,000
v.	Examinations fee	50,000	50,000
vi.	Certification	40,000	40,000
vii.	Students' Organization fee	10,000	10,000
viii.	Registration fee	10,000	10,000
ix.	Student's Identity Card	10,000	10,000
x.	Medical Contribution (NHIF)	50,400	50,400
xi.	Capitation fee	10,000	10,000
xii.	Prospectus	- - -	
xiii.	Quality Assurance fee (TCU)	20,000	20,000
xiv.	Graduation gown	40,000	40,000
xv.	Transcript fee	10,000	10,000
xvi.	Sub-total; Other Expenses	1,583,500	407,500
xvii.	Total fees	2,483,500	1,200,400

Table 4: Payment Options (TZS)

	In campus	Off campus
Meals and accommodation		
Accommodation only		
Tuition fee	900,000	900,000
Other Expenses	1,583,500	407,500
Semester I	1,445,500	857,500
Semester II	1,038,000	450,000

Table 5: Fee Structure for Certificate and Diploma in Business Administration and Agribusiness Course (1st Year) Private sponsored students in (TZS)

S/N	Item	In campus	Off campus
	Meals and accommodation	Accommodation Only	

1. Tuition fee 700,000 700,000 700,000

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2. Other Expenses

i. Meal Costs	1,176,000	-	-
ii. Accommodation	107,100	107,100	-
iii. Caution money (Non-refundable)	20,000	20,000	20,000
iv. Library membership fees	30,000	30,000	30,000
v. Examinations fee	50,000	50,000	50,000
vi. Certification	40,000	40,000	40,000
vii. Students' Organization fee	10,000	10,000	10,000
viii. Registration fee	10,000	10,000	10,000
ix. Student's Identity Card	10,000	10,000	10,000
x. Medical Contribution (NHIF)	50,400	50,400	50,400
xi. Capitation fee	10,000	10,000	10,000
xii. Prospectus	-	-	-
xiii. Quality Assurance fee (TCU)	20,000	20,000	20,000
xiv. Graduation gown	40,000	40,000	40,000
xv. Transcript fee	10,000	10,000	10,000
xvi. Sub-total; Other Expenses	1,583,500	407,500	300,400
xvii. Total fees	2,283,500	1,107,500	1,000,400

Table 6: Payment Options (TZS)

In campus Off campus

Meals and accommodation

Accommodation only

Tuition fee	700,000	700,000	700,000
Other Expenses	1,583,500	407,500	300,400
Semester I	1,345,500	757,500	650,400
Semester II	938,000	350,000	350,000

Table 7: Fee structure for Diploma in Engineering, Architecture and Science Courses (2nd& 3rd Year) private sponsored students in (TZS)

S/N Item In campus Off campus

Meals and accommodation Accommodation only

1. Tuition fee	900,000	900,000	900,000
2. Other Expenses			
i. Meal Costs	1,142,400	-	-
ii. Accommodation	107,100	107,100	-
iii. Caution money	-	-	-
iv. Library membership fees	30,000	30,000	30,000

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v. Examinations fee	50,000	50,000	50,000
vi. Certification	-	-	-

vii. Students' Organization fee	10,000	10,000	10,000
viii. Registration fee	10,000	10,000	10,000
ix. Student's Identity Card	10,000	10,000	10,000
x. Medical Contribution (NHIF)	50,400	50,400	50,400
xi. Capitation fee	10,000	10,000	10,000
xii. Prospectus	- - -		
xiii. Quality Assurance fee (TCU)	20,000	20,000	20,000
Sub-total; Other Expenses	1,439,900	297,500	190,400
Total fees	2,339,900	1,197,500	1,090,400

Table 8: Payment Options (TZS)

In campus Off campus

Meals and
accommodation
Accommodation
only

Tuition fee	900,000	900,000	900,000
Other Expenses	1,439,900	297,500	190,400
Semester I	1,318,700	747,500	640,400
Semester II	1,021,000	450,000	450,000

Table 9: Fee structure for Diploma in Business Administration and Agri Business Course (2nd and 3rd Year) private sponsored students in (TZS)

S/N Item In campus Off campus

Meals and accommodation Accommodation
Only

1 Tuition fee	700,000	700,000	700,000
2 Other Expenses			
i. Meal Costs	1,142,400	- -	
ii. Accommodation	107,100	107,100	-
iii. Caution money (Non-refundable)			
- - -			
iv. Library membership fees	30,000	30,000	30,000
v. Examinations fee	50,000	50,000	50,000
vi. Certification	- - -		
vii. Students' Organization fee	10,000	10,000	10,000
viii. Registration fee	10,000	10,000	10,000
ix. Student's Identity Card	10,000	10,000	10,000
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x. Medical Contribution (NHIF)	50,400	50,400	50,400
xi. Capitation fee	10,000	10,000	10,000
xii. Prospectus	- - -		
xiii. Quality Assurance fee (TCU)	20,000	20,000	20,000

Sub-total; Other Expenses 1,439,900 297,500 190,400

Total fees 2,139,900 997,500 890,400

Table 10: Payment Options (TZS)

In campus Off campus

Meals and

accommodation

Accommodation

only

Tuition fee 700,000 700,000 700,000

Other Expenses 1,583,500 407,500 300,400

Semester I 1,345,500 757,500 650,400

Semester II 938,000 350,000 350,000

Table 11: Fee structure for Diploma in Biotechnology (1st Year) private sponsored students in (TZS)

S/N Item In campus Off campus

Meals and accommodation Accommodation

Only

1 Tuition fee 1,100,000 1,100,000 1,100,000

2 Other Expenses

i. Meal Costs 1,176,000 - -

ii. Accommodation 107,100 107,100 -

iii. Caution money (Non-refundable)

20,000 20,000 20,000

iv. Library membership fees 30,000 30,000 30,000

v. Examinations fee 50,000 50,000 50,000

vi. Certification 40,000 40,000 40,000

vii. Students' Organization fee 10,000 10,000 10,000

viii. Registration fee 10,000 10,000 10,000

ix. Student's Identity Card 10,000 10,000 10,000

x. Medical Contribution (NHIF) 50,400 50,400 50,400

xi. Capitation fee 10,000 10,000 10,000

xii. Prospectus - - -

xiii. Quality Assurance fee (TCU) 20,000 20,000 20,000

xiv. Graduation gown 40,000 40,000 40,000

xv. Transcript fee 10,000 10,000 10,000

Sub-total; Other Expenses 1,583,500 407,500 300,400

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Total fees 2,683,500 1,507,500 1,400,400

Table 12: Payment Options (TZS)

In campus Off campus

Meals and

accommodation

Accommodation
only

Tuition fee 1,100,000 1,100,000 1,100,000

Other Expenses 1,583,500 407,500 300,400

Semester I 1,545,500 957,500 850,400

Semester II 550,000 550,000 550,000

Table 13: Fee structure for Diploma in Biotechnology (2nd & 3rd Year) private
sponsored students in (TZS)

S/N Item In campus Off campus

Meals and accommodation Accommodation
only

1. Tuition fee 1,100,000 1,100,000 1,100,000

2. Other Expenses

i. Meal Costs 1,142,400 - -

ii. Accommodation 107,100 107,100 -

iii. Caution money - - -

iv. Library membership fees 30,000 30,000 30,000

v. Examinations fee 50,000 50,000 50,000

vi. Certification - - -

vii. Students' Organization fee 10,000 10,000 10,000

viii. Registration fee 10,000 10,000 10,000

ix. Student's Identity Card 10,000 10,000 10,000

x. Medical Contribution (NHIF) 50,400 50,400 50,400

xi. Capitation fee 10,000 10,000 10,000

xii. Prospectus - - -

xiii. Quality Assurance fee (TCU) 20,000 20,000 20,000

Sub-total; Other Expenses 1,439,900 297,500 190,400

Total fees 2,539,900 1,397,500 1,290,400

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Table 14: Payment Options (TZS)

In campus Off campus

Meals and
accommodation

Accommodation only

Tuition fee 1,100,000 1,100,000 1,100,000

Other Expenses 1,439,900 297,500 190,400

Semester I 1,418,700 847,500 740,400

Semester II 550,000 550,000 550,000

5.2 FEES STRUCTURE FOR BACHELOR PROGRAMME FULL-TIME STUDENTS (UQF 8)

5.2.1 COSTS PAYABLE TO THE UNIVERSITY BY BACHELOR OF SCIENCES, EDUCATION
AND ICT

STUDENTS (3 YEARS PROGRAMMES)

Table 15: University's Fees and Other Expenses for Bachelor students under 3 years programme in (TZS) Sciences, Education and ICT

S/N Description UQF 8

(1st Year)

UQF 8

(2nd

Year)

UQF 8

(3rd Year)

1. Tuition fee 1,100,000 1,100,000 1,100,00

2. Other Expenses

i. Caution Money (Non-refundable) 20,000 - -

ii. Accommodation Fee 107,100 107,100 107,100

iii. Library Membership 30,000 30,000 30,000

iv. Examination Fee 120,000 120,000 120,000

v. Certification 40,000 - -

vi. Students' Organization 10,000 10,000 10,000

vii. Registration 10,000 10,000 10,000

viii. Student's Identity Card 10,000 10,000 10,000

ix. Medical Contribution (NHIF) 50,400 50,400 50,400

x. Capitation fee 10,000 10,000 10,000

xi. Prospectus - - -

xii. Quality Assurance fee (TCU) 20,000 20,000 20,000

xiii. Graduation gown 40,000 - -

xiv. Transcript fee 10,000 - -

Sub-total; Other Expenses 477,500 367,500 367,500

Total fees 1,577,500 1,467,500 1,467,500

Table 16: Payment Options (TZS)

Description

UQF 8

1st Year

UQF 8

2nd Year

UQF 8

3rd Year

Tuition fee 1,100,000 1,100,000 1,100,000

Other Expenses 477,500 367,500 367,500

Semester I 1,027,500 917,500 917,500

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Semester II 550,000 550,000 550,000

Table 17: University's Fees and Other Expenses for Bachelor of Sciences in Biotechnology, Science in Chemistry and

Environmental Science and Technology 3 years programme in (TZS)

S/N Description UQF 8 (1st Year) UQF 8 (2ndYear) UQF 8 (3rdYear)

1. Tuition fee	1,400,000	1,400,000	1,400,000
2. Other Expenses			
i. Caution Money	20,000	-	-
ii. Accommodation Fee	107,100	107,100	107,100
iii. Library Membership	30,000	30,000	30,000
iv. Examination Fee	120,000	120,000	120,000
v. Certification	40,000	-	-
vi. Students' Organization	10,000	10,000	10,000
vii. Registration	10,000	10,000	10,000
viii. Student's Identity Card	10,000	10,000	10,000
ix. Medical Contribution (NHIF)	50,400	50,400	50,400
x. Capitation fee	10,000	10,000	10,000
xi. Prospectus	-	-	-
xii. Quality Assurance fee (TCU)	20,000	20,000	20,000
xiii. Graduation gown	40,000	-	-
xiv. Transcript fee	10,000	-	-
Sub-total; Other Expenses	477,500	367,500	367,500
Total fees	1,877,500	1,767,500	1,767,500

Table 18: Payment Options (TZS)

Description

UQF 8

1st Year

UQF 8

2nd Year

UQF 8

3rd Year

Tuition fee 1,400,000 1,400,000 1,400,000

Other Expenses 477,500 367,500 367,500

Semester I 1,177,500 1,067,500 1,067,500

Semester II 700,000 700,000 700,000

5.2.2 COSTS PAYABLE TO THE UNIVERSITY BY BACHELOR OF ENGINEERING AND TECHNOLOGY

IN ARCHITECTURE STUDENTS (4 YEARS PROGRAMMES)

Table 19: University's Fees and Other Expenses for Bachelor students under 4 years programme in (TZS)

S/N Description UQF 8 (1stYear) UQF 8 (2rd

Year)

UQF 8 (3rd

Year)

UQF 8 (4thYear)

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1. Tuition fee	1,100,000	1,100,000	1,100,000	1,100,000
2. Other Expenses				
i. Caution Money (Non-refundable)				
20,000	- - -			
ii. Accommodation Fees	107,100	107,100	107,100	107,100
iii. Library Membership	30,000	30,000	30,000	30,000
iv. Examination Fee	120,000	120,000	120,000	120,000
v. Certification	40,000	- - -		
vi. Students' Organization	10,000	10,000	10,000	10,000
vii. Registration	10,000	10,000	10,000	5,000
viii. Student's Identity Card	10,000	10,000	10,000	10,000
ix. Medical Contribution	50,400	50,400	50,400	50,400
x. Medical Capitation	10,000	10,000	10,000	10,000
xi. Prospectus	- - -			
xii. Quality Assurance fee (TCU)	20,000	20,000	20,000	20,000
xiii. Graduation gown	40,000	- - -		
xiv. Transcript fee	10,000	- - -		
Sub-total; Other Expenses	477,500	367,500	367,500	367,500
Total Fees	1,577,500	1,467,500	1,467,500	1,467,500

Table 20: Payment Options (TZS)

Description

UQF 8

1st Year

UQF 8

2nd Year

UQF 8

3rd Year

UQF 8

4th Year

Tuition fee 1,100,000 1,100,000 1,100,000 1,100,000

Other Expenses 477,500 367,500 367,500 367,500

Semester I 1,027,500 917,500 917,500 917,500

Semester II 550,000 550,000 550,000 550,000

Table 21: University's Fees and Other Expenses for Bachelor students in Business Administration in (TZS)

S/N Description UQF 8 (1stYear) UQF 8 (2nd Year) UQF 8 (3rd Year)

1. Tuition fee 800,000 800,000 800,000

2. Other Expenses

i. Caution Money (Non-refundable) 20,000 - -

ii. Accommodation Fees 107,100 107,100 107,100

iii. Library Membership 30,000 30,000 30,000

iv. Examination Fee 120,000 120,000 120,000

v. Certification 40,000 - -

vi. Students' Organization	10,000	10,000	10,000
vii. Registration	10,000	10,000	10,000
viii. Student's Identity Card	10,000	10,000	10,000
ix. Medical Contribution (NHIF)	50,400	50,400	50,400
x. Capitation fee	10,000	10,000	10,000
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xi. Prospectus - - -			
xii. Quality Assurance fee (TCU)	20,000	20,000	20,000
xiii. Graduation gown	40,000	- -	
xiv. Transcript fee	10,000	- -	
xv. Sub-total; Other Expenses	477,500	367,500	367,500
Total fees	1,257,500	1,167,500	1,167,500

Table 22: Payment Options (TZS)

Description

UQF 8

1st Year

UQF 8

2nd Year

UQF 8

3rd Year

Tuition fee 800,000 800,000 800,000

Other Expenses 477,500 367,500 367,500

Semester I 877,500 767,500 767,500

Semester II 400,000 400,000 400,000

Table 23: University's Fees and Other Expenses for Bachelor students in Agribusiness in (TZS)

S/N Description UQF 8 (1stYear) UQF 8 (2nd Year) UQF 8 (3rd Year)

1.0 Tuition fee 1,000,000 1,000,000 1,000,000

2.0 Other Expenses

i. Caution Money (Non-refundable) 20,000 - -

ii. Accommodation Fee 107,100 107,100 107,100

iii. Library Membership 30,000 30,000 30,000

iv. Examination Fee 120,000 120,000 120,000

v. Certification 40,000 - -

vi. Students' Organization 10,000 10,000 10,000

vii. Registration 10,000 10,000 10,000

viii. Student's Identity Card 10,000 10,000 10,000

ix. Medical Contribution (NHIF) 50,400 50,400 50,400

x. Capitation fee 10,000 10,000 10,000

xi. Prospectus - - -

xii. Quality Assurance fee (TCU) 20,000 20,000 20,000

xiii. Graduation Fee 40,000 - -

xiv. Transcript 10,000 - -

Sub-total; Other Expenses 477,500 407,500 407,500
 Total fees (TZS) 1,477,500 1,407,500 1,407,500

Table 24: Payment Options (TZS)

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Description

UQF 8

1st Year

UQF 8

2nd Year

UQF 8

3rd Year

Tuition fee 1,000,000 1,000,000 1,000,000

Other Expenses 477,500 367,500 367,500

Semester I 977,500 867,500 867,500

Semester II 500,000 500,000 500,000

5.2.3 COSTS PAYABLE DIRECTLY TO THE STUDENTS BY SPONSORS

Table 25: Costs payable direct to the students by sponsors for Bachelor in Sciences, Education and ICT (3 Years Programmes) in TZS

S/N Description UQF 8 (1st Year) UQF 8 (2nd Year)

UQF 8 (3rd

Year)

1 Industrial Practical Training (IPT) 700,000 700,000 -

2 Book / Stationery costs 200,000 200,000 200,000

3 Final project Printing 0 0 120,000

4 Special faculty requirements 300,000 300,000 120,000

5 Accommodation and Meals Allowance 1,837,500 1,785,000 1,785,000

6 Transport fare to attend IPT Variable Variable

TOTAL 3,037,500 2,985,000 2,225,000

Table 26: Costs payable direct to the students by sponsors for Bachelor in Engineering and Technology in Architecture 4 Years Programmes in (TZS)

S/N DESCRIPTION UQF 8 (1st Year) UQF 8 (2nd Year) UQF 8 (3rd Year) UQF 8 (4th Year)

1 Industrial Practical Training 700,000 700,000 700,000 -

2 Book / Stationery costs 200,000 200,000 200,000 200,000

3 Final project Printing - - - 120,000

4 Special faculty requirements 300,000 300,000 300,000 120,000

5 Accommodation and Meals costs 1,837,500 1,785,000 1,785,000 1,785,000

6 Transport fare to attend IPT Variable Variable Variable

TOTAL 3,037,500/= 2,985,000/= 2,985,000/= 2,225,000/=

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Table 27: Costs Payable Direct to the Student by Sponsors for Bachelor of Science in Biotechnology

Programme (3 Years In TZS)

S/N Description UQF 8 (1st Year) UQF 8 (2ndYear) UQF 8 (3rdYear)

1	Industrial Practical Training (IPT)	700,000	700,000	-
2	Book / Stationery costs	200,000	200,000	200,000
3	Final Project Printing	-	-	-
4	Special Faculty Requirements	300,000	300,000	300,000
5	Accommodation and Meals costs	2,400,000	2,400,000	2,400,000
6	Transport fare to attend IPT	Variable	Variable	-
TOTAL		3,600,000	3,600,000	2,900,000

Table 28: Costs Payable Direct to the Student by Sponsors for Bachelor of Science in Chemistry Programme

(3 Years In TZS)

S/N Cost item UQF8(1stYear) UQF8(2nd Year) UQF 8 (3rd Year)

1	Book & stationary Allowance*	200,000	200,000	200,000
2	Special Faculty Allowance	300,000	300,000	300,000
3	Field Practical Training	700,000	700,000	-
4	Meals and Accommodations	1,200,000	1,200,000	1,200,000
Total		2,400,000	2,400,000	1,700,000

Table 29: Costs Payable Direct to the Student by Sponsors for Bachelor in Environmental Science and Technology

Programme (3 Years In TZS)

S/N Description UQF8(1st Year) UQF8(2rdYear) UQF8(3rdYear)

1	Industrial Practical Training (IPT)	700,000	700,000	-
2	Book/Stationery costs	200,000	200,000	200,000
3	Final Project Printing	-	-	-
4	Special Faculty Requirements	300,000	300,000	300,000
5	Accommodation and Meals costs	2,400,000	2,400,000	2,400,000
6	Transport fare to attend IPT	Variable	Variable	-
TOTAL		3,600,000	3,600,000	2,900,000

*Amounts Payable Direct to the Student by Sponsors reflect the minimum requirements. Sponsors are free to pay their Students according to their ability.

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5.2.4 UNIVERSITY FEE STRUCTURE FOR FOREIGN STUDENTS FOR ACADEMIC YEAR 2024/2025

(FEES AND OTHER DIRECT COSTS PAYABLE TO THE UNIVERSITY)

Diploma Programmes Bachelor Programmes

1st

Year

2nd

Year

3rd Year

4th Year

1st Year 2nd

Year

3rd

Year

4th

Year

S/N ITEM USD USD USD USD USD USD USD

1 Tuition fee (per year) 1,840 1,840 1,840 2,000 2,000 2,000 2,000

2 Application fee 30 - - 30 - - -

3 Other direct University fee –per year:

(Caution money, Library membership fees, Examinations

fee, Certification, Students' Organization fee, Registration

fee, Student's Identity Card, Medical Contribution (NHIF),

Student's Relief Fund,

Prospectus, NACTE Registration)

500 450 450 500 450 450 450

TOTAL 2,370 2,290 2,290 2,530 2,450 2,450 2,450

5.2.4.1 INDICATIVE STIPEND AND OTHER ALLOWANCES PAYABLE TO FOREIGN STUDENTS

S/N ITEM

Diploma Programmes Bachelor Programmes

UQF 8

USD USD

1 Accommodation (Annually) 300 300

2 Meals (Annually) 1,500 1,500

3 Books and stationery allowance (Annually) 500 8,00

GRAND TOTAL 2,300 2,600

5.3 INSTALLMENTS PAYABLE

The tuition fee may be paid in TWO Instalments; ONE Instalment in each Semester, while all Other Expenses / Direct

Cost must be paid in full at the beginning of each academic year. Students are required to pay their fees by generating a

control number, the payment can be done through M-Pesa, Tigo Pesa and Airtel Money. The process of generating control

Number will be instructed in the University website (www.must.ac.tz),

6.0 GENERAL PROVISIONS

i. Admission to the University is open to bona fide students or persons meeting the entry requirements. Such

persons shall be required to go through registration formalities to confirm their status as bona fide students.

ii. To be admitted in the first year of study at Mbeya University of Science and Technology you must have

relevant certificates entitling him/her to go for the course he/she has applied for and duly approved by the relevant authority or have other qualifications considered equivalent by the University.

iii. A student from a similar institution wishing to be admitted into the second year of study at MUST, must have passed all examinations in the relevant programmes in the preceding year of study.

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iv. No student from another institution shall be admitted to the final year of study at Mbeya University of Science and Technology.

v. A student, who has been admitted and does not report for registration in a particular year, may re-apply for admission during the coming Academic year provided the admission requirements remain the same.

vi. A student who postponed studies for more than two consecutive academic years shall be deemed to have terminated studies. Therefore, a student interested to continue with studies at University shall be required to apply for re-admission in the first year of study.

6.1 APPLICATION FEES

Applicants must pay an application fee to be determined by the Council from time to time. All Application fees shall be payable to the University Bank Account directly or by using mobile phone after generating Control Number as it will be directed in the application procedures of a particular academic year. The filled Online Application Information must be submitted before the deadline set for Application submission of the specific round in the online system

6.2 PAYMENT OF FEES

Students will only be registered upon payment of prescribed fees whose amount shall be determined from time to time.

6.3 GUARANTEE OF SPONSORSHIP

Applications can only be considered once the University receives satisfactory evidence that the student will be adequately financed during his or her course at the University. Applicants who need assistance to meet the University fees and expenses should seek bursaries from funding organizations.

6.4 MBEYA UNIVERSITY OF SCIENCE AND TECHNOLOGY ACADEMIC YEAR

The academic year for Certificate, Diploma and Bachelor Degree Programmes will begin in October every year,

otherwise stated differently, and shall end as indicated by the University Academic Almanac.

6.5 REGISTRATION DEADLINE

Deadline of registration for all beginners shall be two weeks after the first day of Orientation Week. The deadline of registration for continuing students shall be two weeks after the University opens. All beginners shall have to submit original certificates on the registration day and must attend orientation week without missing.

6.6 STUDENTS TRANSFER

Student transfers typically refer to the process where a student moves from one institution to another or within the same institution. There are two forms of transfers namely; intra-university and inter-university transfers.

6.6.1 Intra-University Transfer

Intra-university transfer shall mean transfer from one-degree programme to another within Mbeya University of Science and Technology. The conditions are as follows;

- a) A student shall be allowed to apply for transfer from one-degree programme to another provided they meet the minimum entry criteria of such programmes;
- b) A student will not be allowed to transfer from the degree programme to which he/she was admitted at MUST to another unless the following conditions are met:
 - i. Completion of registration and payment of University and Administrative fees; MUST Prospectus 2024/2025

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- ii. Availability of a vacancy in the preferred programme;
- iii. Meet the minimum admission requirements for the sought programme;
- iv. Payment of a non- refundable fee of TZS. 10,000 for Tanzanian students or USD 30 for foreign students;
- v. The application for transfer window will be opened and published on the University Website in the first semester;
- vi. The candidate shall be required to pay all prescribed fees and other related costs arising from the transfer process to the new programme.

6.6.2 Inter-University Transfer

Inter-University Transfer shall mean transfer from one University to the other within the same or different programme provided the applicant meets minimum entry criteria of such programmes.

The transfer from other institutions to MUST for first year students shall be permissible under the following conditions:

- a) Must be admitted in other university during that particular academic year;
- b) The programme to which transfer is sought must have empty slots to accommodate students;
- c) The applicant must possess the minimum entry requirements for that particular degree programme;
- d) Before completing the application for Inter-University Transfer, a candidate shall be required to pay a TZS 50,000 non-refundable fee or such as shall be determined by the University Council;
- e) The University shall approve transfers in writing and submit them to TCU for validation within the set deadline;
- f) Other TCU regulations related to Inter University Transfer shall apply mutatis mutandis; and
- g) For Bachelor degree students, Student transfer shall only be accepted after receiving approval from TCU.

6.7 STUDENTS' NAMES

No change of names by students will be permitted during the course of study at the University and students will be allowed to use names appearing on certificates only which qualified them for admission.

6.8 POSTPONEMENT OF STUDIES

No student is allowed to postpone studies after commencement of academic year, except under special circumstances. Permission to postpone studies will be considered after producing satisfactory evidence for the reasons of postponement and producing a written approval from one's sponsor. A student who has postponed studies shall be allowed to be away from studies for a maximum of two academic years only if she/he is to be allowed for registration to the same year of study. Otherwise, the student will be required to apply afresh for re-admission.

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6.9 ADMISSION REQUIREMENTS

6.10 ENTRY REQUIREMENTS

Applicants may join Certificate, Diploma and Bachelor Programmes through direct entry scheme.

6.10.2 ADMISSION REQUIREMENTS FOR CERTIFICATE PROGRAMMES FOR THE ACADEMIC YEAR

2024/2025

The following are the minimum entry requirements for Certificate Programmes:

S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

1 Certificate in

Agribusiness with

Technology (CABT)

MBC01 Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4)

non- Religious subjects of which two must be science

subjects including Biology or Geography or

Agriculture.

OR

Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least three (3)

non-Religious subjects, two must be among the

following subjects: Biology, Geography and

Agriculture with possession of TRADE TEST GRADE

I / NVA LEVEL III issued by VETA.

1Year

2 Certificate in

Business

Administration

MBC02 Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4)

non- Religious subjects

1Year

6.10.3 ADMISSION REQUIREMENTS FOR DIPLOMA PROGRAMMES FOR THE ACADEMIC YEAR 2024/2025

The following are the minimum entry requirements for Diploma Programmes:

S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

1 Diploma in Architecture MBD01 Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4) non-

Religious subjects, three of which must be

Mathematics, Physics, Chemistry/Geography

OR

Possession of Certificate of Secondary Education

Examination (CSEE) from Technical Secondary Schools

with a pass in at least four (4) non-Religious subjects, three

of which must be Mathematics, Engineering Science,
Chemistry and any one of the following subjects:
Architectural Drafting/Building Construction, Electrical
3Years

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S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

Engineering Science/Electrical Drafting, Workshop
Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education
Examination (CSEE) with a pass in at least four (4) non-
Religious subjects, two of which must be among the
following subjects: Mathematics, Physics,
Chemistry/Geography with possession of TRADE TEST
GRADE I / NVA LEVEL III issued by VETA.

2 Diploma in Biomedical

Equipment Engineering

MBD02 Possession of Certificate of Secondary Education
Examination (CSEE) with a pass in at least four (4) non-
Religious subjects in Mathematics, Physics, Chemistry and
Biology.

OR

Possession of Certificate of Secondary Education
Examination (CSEE) from Technical Secondary Schools
with a pass in at least four (4) non-Religious subjects,
Mathematics, Engineering Science, Chemistry and Biology.

OR

Possession of Certificate of Secondary Education
Examination (CSEE) with a pass in at least four (4) non-
Religious subjects, two must be among the following
subjects: Mathematics, Physics, Chemistry, Biology with
possession of TRADE TEST GRADE I / NVA LEVEL III
issued by VETA.

3Years

3 Diploma in Business

Administration

MBD03 Possession of Certificate in business Administration and

other related qualifications including Certificate in agriculture, Community Development.

OR

Possession of an Advanced Certificates for Secondary Education with at least 1 principal pass and 1 subsidiary

OR

Possession of Certificate of NVA level 3, ATEC I (NBAA) Foundation stage I (PSPTB/NBMM).

2Years

4 Diploma in Civil

Engineering

MBD04 Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Physics, Chemistry

OR

Possession of Certificate of Secondary Education Examination (CSEE) from Technical Secondary Schools with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Engineering Science, Chemistry and any one of the following subjects:

Architectural Drafting/Building Construction, Electrical

3Years

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S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

Engineering Science/Electrical Drafting, Workshop Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

5 Diploma in Computer

Engineering

MBD05 Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Physics, Chemistry

OR

Possession of Certificate of Secondary Education Examination (CSEE) from Technical Secondary Schools with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Engineering Science, Chemistry and any one of the following subjects: Architectural Drafting/Building Construction, Electrical Engineering Science/Electrical Drafting, Workshop Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

3Years

6 Diploma in Computer Science

MBD06 Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two of which must be Mathematics and English

OR

Possession of Certificate of Secondary Education Examination (CSEE) from Technical Secondary Schools with a pass in at least four (4) non-Religious subjects, two of which must be Mathematics and English and any two of the following subjects: Engineering Science/Chemistry, Architectural Drafting/Building Construction, Electrical Engineering Science/Electrical Drafting, Workshop Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two must be Mathematics and English with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

3Years

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S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

7 Diploma in Electrical

and Electronic

Engineering

MBD07 Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4) non-

Religious subjects, three of which must be Mathematics,

Physics, Chemistry

OR

Possession of Certificate of Secondary Education

Examination (CSEE) from Technical Secondary Schools

with a pass in at least four (4) non-Religious subjects, three

of which must be Mathematics, Engineering Science,

Chemistry and any one of the following subjects:

Architectural Drafting/Building Construction, Electrical

Engineering Science/Electrical Drafting, Workshop

Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4) non-

Religious subjects, two must be among the following

subjects: Physics, Chemistry and Mathematics with

possession of TRADE TEST GRADE I / NVA LEVEL III

issued by VETA.

3Years

8 Diploma in Automotive

and Auto electrical

Engineering

MBD08 Possession of Certificate of Secondary Education Examination

(CSEE) with a pass in at least four (4) Nonreligious subjects,

three of which must Mathematics, Physics, Chemistry

OR

Possession of Certificate of Secondary Education Examination

(CSEE) from Technical Secondary Schools with a pass in at

least four (4) non- Religious subjects, three of which must be

Mathematics, Engineering Science, Chemistry and any one of

the following subjects: Architectural Drafting/Building

Construction, Electrical Engineering Science/Electrical

Drafting, Workshop Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

3Years

9 Diploma in Food

Science and

Technology

MBD09 Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least Four (4) non-Religious subjects three of which must be Mathematics, Physics/Chemistry and Biology.

OR

Possession of Certificate of Secondary Education Examination (CSEE) from Technical Secondary Schools with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Engineering

3Years

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S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

Science/Chemistry and Biology and any one of the following subjects: Architectural Drafting/Building, Construction, Electrical Engineering Science/Electrical Drafting, Workshop Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two must be among the following subjects: Mathematics, Physics/Chemistry, Biology with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

10 Diploma in Highway

Engineering

MBD10 Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Physics, Chemistry

OR

Possession of Certificate of Secondary Education Examination (CSEE) from Technical Secondary Schools with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Engineering Science, Chemistry and any one of the following subjects: Architectural Drafting/Building Construction, Electrical Engineering Science/Electrical Drafting, Workshop Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

3Years

11 Diploma in Information and Communication Technology

MBD11 Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two of which must be Mathematics and English

OR

Possession of Certificate of Secondary Education Examination (CSEE) from Technical Secondary Schools with a pass in at least four (4) non-Religious subjects, two of which must be Mathematics and English and any two of the following subjects: Engineering Science/Chemistry, Architectural Drafting/Building Construction, Electrical Engineering Science/Electrical Drafting, Workshop Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two must be among the following

3Years

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S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

subjects: Mathematics and English with possession of
TRADE TEST GRADE I / NVA LEVEL III issued by
VETA.

12 Diploma in Laboratory

Science and

Technology

MBD12 Possession of Certificate of Secondary Education
Examination (CSEE) with a pass in at least four (4) non-
Religious subjects in Mathematics, Physics, Chemistry and
Biology.

OR

Possession of Certificate of Secondary Education
Examination (CSEE) from Technical Secondary Schools
with a pass in at least four (4) non-Religious subjects,
Mathematics, Engineering Science, Chemistry and Biology.

OR

Possession of Certificate of Secondary Education
Examination (CSEE) with a pass in at least four (4) non-
Religious subjects, two must be among the following
subjects: Mathematics, Physics, Chemistry, Biology with
possession of TRADE TEST GRADE I / NVA LEVEL III
issued by VETA.

3Years

13 Diploma in Mechanical

Engineering

MBD13 Possession of Certificate of Secondary Education
Examination (CSEE) with a pass in at least four (4) non-
Religious subjects, three of which must be Mathematics,
Physics, Chemistry

OR

Possession of Certificate of Secondary Education
Examination (CSEE) from Technical Secondary Schools
with a pass in at least four (4) non-Religious subjects, three
of which must be Mathematics, Engineering Science,
Chemistry and any one of the following subjects:
Architectural Drafting/Building Construction, Electrical
Engineering Science/Electrical Drafting, Workshop
Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

3Years

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S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

14 Diploma in

Mechatronics

Engineering

MBD14 Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Physics, Chemistry

OR

Possession of Certificate of Secondary Education Examination (CSEE) from Technical Secondary Schools with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Engineering Science, Chemistry and any one of the following subjects: Architectural Drafting/Building Construction, Electrical Engineering Science/Electrical Drafting, Workshop Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

3Years

15 Diploma in Mining

Engineering

MBD15 Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Physics, Chemistry

OR

Possession of Certificate of Secondary Education Examination (CSEE) from Technical Secondary Schools with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Engineering Science, Chemistry and any one of the following subjects: Architectural Drafting/Building Construction, Electrical Engineering Science/Electrical Drafting, Workshop Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

3Years

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S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

16 Diploma in Agribusiness

with Technology

(DABT)

MBD16 Possession of a certificate (NQF 6) or NTA 4 in agribusiness, agriculture, professional technician level II certificate.

OR

Possession of an Advanced Certificate of Secondary Education Examination (ACSEE) with two principal passes in science subjects, or Geography.

2Years

17 Diploma in Electronics

and Telecommunication

Engineering

MBD17 Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Physics, Chemistry

OR

Possession of Certificate of Secondary Education Examination (CSEE) from Technical Secondary Schools with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Engineering Science, Chemistry and any one of the following subjects: Architectural Drafting/Building Construction, Electrical Engineering Science/Electrical Drafting, Workshop Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

3Years

18 Diploma of Technical Education in Architectural Technology (DTEA)

MBD18 Possession of Certificate of Secondary Education (CSEE) with a pass in at least four (4) Non-religious subjects, three of which must be Mathematics, Physics and Chemistry/Geography.

3Years

19 Diploma of Business Administration in Accounting and Finance

MBD19 Possession of Certificate in business Administration and other related qualifications including Certificate in agriculture, Community Development.

OR

Possession of an Advanced Certificates for Secondary Education with at least 1 principal pass and 1 subsidiary

OR

Possession of Certificate of NVA level 3, ATEC I (NBAA) Foundation stage I (PSPTB/NBMM).

2Year

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S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

20 Diploma of Technical

Education in Civil

Engineering

MBD20 Possession of a Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Physics, Chemistry.

OR

Certificate of Secondary Education Examination (CSEE) from Technical Secondary Schools with a pass in at least four (4) non-Religious subjects, three of which must be Mathematics, Engineering Science and Chemistry.

OR

A Certificate of Secondary Education with a Trade Test Certificate of at least Grade I or NVA Level 3 offered by VETA.

3Years

21 Diploma in Business

Computing

MBD21 Possession of Certificate of Secondary Education Examination (CSEE) and with four principal passes including English and Mathematics.

OR

Possession of Certificate of Secondary Education Examination (CSEE) from Technical Secondary Schools with a pass in at least four (4) non-Religious subjects, two of which must be Mathematics and English and any two of the following subjects: Engineering Science/Chemistry, Architectural Drafting/Building Construction, Electrical Engineering Science/Electrical Drafting, Workshop Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, two must be among the following subjects: English and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

3Years

22 Diploma of Technical
Education in Electrical
and Electronics

Engineering

MBD22 Possession of Certificate of Secondary Education Examination
(CSEE) with a pass in at least four (4) non-Religious subjects,
three of which must be Mathematics, Physics, and Chemistry.

OR

Certificate of Secondary Education Examination (CSEE) from
Technical Secondary Schools with a minimum D pass in at
least four (4) non-Religious subjects, three of which must be
Mathematics, Engineering Science, and Chemistry.

OR

Possession of Certificate of Secondary Education Examination
(CSEE) with a pass in at least four (4) non-Religious subjects
two must be among the following subjects: Physics, Chemistry
and Mathematics with possession of TRADE TEST GRADE I
/ NVA LEVEL III issued by VETA.

3Years

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S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

23 Diploma of Technical
Education in Mechanical
Engineering

MBD23 Possession of Certificate of Secondary Education
Examination (CSEE) with a pass in at least four (4) Non-
religious subjects, three of which must be Mathematics,
Physics and Chemistry

OR

Possession of Certificate of Secondary Education
Examination (CSEE) from Technical Secondary Schools with
a pass in at least four (4) non- Religious subjects, three of
which must be Mathematics, Engineering Science, Chemistry
and any one of the following subjects: Architectural
Drafting/Building Construction, Electrical Engineering
Science/Electrical Drafting, Workshop

Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4) non-

Religious subjects, two must be among the following subjects:

Physics, Chemistry and Mathematics with possession of

TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

3Years

24 Diploma in Mechanical

Engineering with

Industrial Safety and

Occupational Health

MBD24 Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4) non-

Religious subjects, three of which must be Mathematics,

Physics, Chemistry

OR

Possession of Certificate of Secondary Education

Examination (CSEE) from Technical Secondary Schools

with a pass in at least four (4) non-Religious subjects, three

of which must be Mathematics, Engineering Science,

Chemistry and any one of the following subjects:

Architectural Drafting/Building Construction, Electrical

Engineering Science/Electrical Drafting, Workshop

Technology/Mechanical Drafting.

OR

Possession of Certificate of Secondary Education

Examination (CSEE) with a pass in at least four (4) non-

Religious subjects, two must be among the following

subjects: Physics, Chemistry and Mathematics with

possession of TRADE TEST GRADE I / NVA LEVEL III

issued by VETA.

3Years

25 Diploma of Business

Administration in

Marketing and

Entrepreneurship

MBD25 Possession of Certificate in business Administration and

other related qualifications including Certificate in

agriculture, Community Development.

OR

2Years

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S/N

Programme Name

Code

Entry

requirements

Programme

Duration (YRS)

Possession of an Advanced Certificates for Secondary Education with at least 1 principal pass and 1 subsidiary

OR

Possession of Certificate of NVA level 3, ATEC I (NBAA)

Foundation stage I (PSPTB/NBMM).

26 Diploma in

Biotechnology

Possession of Advanced Certificate of Secondary Education

Examination (ACSEE) with at least two (2) principal passes

(D and above) of a maximum of 4.0 points in Biology,

Chemistry, Physics/Mathematics/Nutrition, or possess a

Certificate of Secondary Education Examination (CSEE) with

a minimum "D" pass in at least four (4) non-religious

subjects which must be Biology, Chemistry, Physics,

Mathematics /Nutrition.

3Years

6.10.4 ADMISSION REQUIREMENTS FOR BACHELOR PROGRAMMES FOR ACADEMIC YEAR 2024/2025 (For

Holders of Form Six Qualifications)

S/N Programme Code Admission Requirements Minimum

Institutional

Admission points

Admission

Capacity

Programmes

Duration (YRS)

1. Bachelor of Business

Administration

MB001 Two principal passes in the following subjects:

History, Geography, Kiswahili, English

Language, French, Arabic, Fine Art, Economics,

Commerce, Accountancy, Physics, Chemistry,

Biology, Advanced Mathematics, Agriculture,

Computer Science or Nutrition.

OR

Two principal passes of E in History, Geography,

Kiswahili, English Language, French, Arabic,

Fine Art, Economics, Commerce, Accountancy,
Physics, Chemistry, Biology, Advanced
Mathematics, Agriculture, Computer Science or
Nutrition with Foundation course of out with
minimum GPA of 3.0

4.0 300 3

MUST Prospectus 2024/2025

45

S/N Programme Code Admission Requirements Minimum

Institutional

Admission points

Admission

Capacity

Programmes

Duration (YRS)

2. Bachelor of Civil Engineering MB002 Two principal passes of at least "D" grade in
Mathematics and Physics; In addition, an
applicant must have minimum pass of D in
Mathematics, Physics and Chemistry at O level.

OR

Possession of two principal passes of E in
Advanced Mathematics and Physics with
Foundation Programme of the OUT with a
minimum GPA of 3.0.

4.0 200 4

3. Bachelor of Electrical Engineering MB003 Two principal passes of at least "D" grade
in

Advanced Mathematics and Physics; In addition
an applicant must have minimum pass of D in
Mathematics, Physics and Chemistry at O level.

OR

Possession of two principal passes of E in
Advanced Mathematics and Physics with
Foundation Programme of the OUT with a
minimum GPA of 3.0.

4.0 200 4

4. Bachelor of Technology in
Architecture

MB004 Two principal passes at least "D" grade in
Advanced Mathematics and Physics or Chemistry
or Geography; in addition, an applicant must have
minimum pass of D in Mathematics, Physics, and
Chemistry/Geography at O level.

OR

Possession of two principal passes of E in
Advanced Mathematics and
Physics/Chemistry/Geography with Foundation
Programme of the OUT with a minimum GPA of
3.0.

4.0 80 4

5. Bachelor of Mechanical
Engineering

MB005 Two principal passes of at least "D" grade in
Mathematics and Physics; In addition, an
applicant must have minimum pass of D in
Mathematics, Physics and Chemistry at O level.

OR

Possession of two principal passes of E in
Advanced Mathematics and Physics with
Foundation Programme of the OUT with a
minimum GPA of 3.0.

4.0 150 4

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S/N Programme Code Admission Requirements Minimum
Institutional

Admission points

Admission

Capacity

Programmes

Duration (YRS)

6. Bachelor of Computer
Engineering

MB006 Two principal passes of at least "D" grade in
Advanced Mathematics and Physics; In addition,
an applicant must have minimum pass of D in
Mathematics, Physics and Chemistry at O level.

OR

Possession of two principal passes of E in
Advanced Mathematics and Physics with
Foundation Programme of the OUT with a
minimum GPA of 3.0.

4.0 50 4

7. Bachelor of Science with
Education

MB007 Two principal passes of at least "D" grade in
Physics and Mathematics or Physics and
Chemistry or Chemistry and Biology or

Mathematics and Chemistry. In addition, an applicant must have a pass in Mathematics, Physics, Chemistry and Biology at O-Level.

OR

Possession of two principal passes of E in Physics and Mathematics or Physics and Chemistry or Chemistry and Biology or Mathematics and Chemistry with Foundation Programme of the OUT with a minimum GPA of 3.0.

4.0 160 3

8. Bachelor of Laboratory Sciences and Technology

MB008 Two principal passes of at least "D" grade in Biology and Chemistry or Physics; In addition, an applicant must have a pass in Mathematics, Physics, Chemistry and Biology at O-Level.

OR

Possession of two principal passes of E in Biology and Chemistry or Physics with Foundation Programme of the OUT with a minimum GPA of 3.0.

4.0 160 3

9. Bachelor of Engineering in Telecommunication Systems

MB009 Two principal passes in Advanced Mathematics and Physics at a minimum of "D" grade; In addition, an applicant must have minimum pass of D in Mathematics, Physics and Chemistry at O level.

OR

Possession of two principal passes of E in Advanced Mathematics and Physics with Foundation Programme of the OUT with a minimum GPA of 3.0.

4.0 50 4

10. Bachelor of Computer Science MB010 Two principal passes of Advanced Mathematics

and Physics or Chemistry at a minimum of "D" grade. In addition, an applicant must have a

4.0 50 3

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S/N Programme Code Admission Requirements Minimum Institutional

Admission points

Admission

Capacity

Programmes

Duration (YRS)

minimum pass of "D" Basic Applied
Mathematics and English at O- level.

11. Bachelor of Science in

Information and Communication

Technology

MB011 Two Principal passes at a minimum of "D" grade
in the following subjects; Advanced
Mathematics, Physics, Geography, Biology,
Chemistry and Economics. In addition, an
applicant must have a minimum pass of "D" in
Basic Applied Mathematics and English at O-
level

4.0 50 3

12. Bachelor of Technical Education

in Electrical and Electronics

Engineering

MB012 Two principal passes in Advanced Mathematics
and Physics at a minimum of "D" grade. If one of
the principal passes is not either Advanced
Mathematics or Physics an applicant must have a
principal pass in one of the following subjects:
Chemistry or Geography or Biology; In addition,
an applicant must have minimum pass of D in
Mathematics, Physics and Chemistry at O level.

OR

Possession of two principal passes of E in
Advanced Mathematics and Physics, if one of the
principal passes is not either Advanced
Mathematics or Physics an applicant must have a
principal pass in one of the following: Chemistry
or Geography or Biology, with Foundation
Programme of the OUT with a minimum GPA of
3.0.

4.0 150 4

13. Bachelor of Technical Education

in Mechanical Engineering

MB013 Two principal passes in Advanced Mathematics
and Physics at a minimum of "D" grade. If one of
the principal passes is not either Advanced

Mathematics or Physics an applicant must have a principal pass in one of the following subjects: Chemistry or Geography or Biology; In addition, an applicant must have minimum pass of D in Mathematics, Physics and Chemistry at O level.

OR

Possession of two principal passes of E in Advanced Mathematics and Physics, if one of the principal passes is not either Advanced Mathematics or Physics an applicant must have a principal pass in one of the following subjects: Chemistry or Geography or Biology, with Foundation Programme of the OUT with a minimum GPA of 3.0.

4.0 150 4

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S/N Programme Code Admission Requirements Minimum Institutional

Admission points

Admission

Capacity

Programmes

Duration (YRS)

14. Bachelor of Technical Education

in Civil Engineering

MB014 Two principal passes in Advanced Mathematics and Physics at a minimum of "D" grade. If one of the principal passes is not either Advanced Mathematics or Physics an applicant must have a principal pass in one of the following subjects: Chemistry or Geography or Biology; In addition, an applicant must have minimum pass of D in Mathematics, Physics and Chemistry at O level.

OR

Possession of two principal passes of E in Advanced Mathematics and Physics, if one of the principal passes is not either Advanced Mathematics or Physics an applicant must have a principal pass in one of the following subjects: Chemistry or Geography or Biology, with Foundation Programme of the OUT with a minimum GPA of 3.0.

4.0 150 4

15. Bachelor of Technical Education
in Architectural Technology

MB015 Two principal passes in Advanced Mathematics and Physics at a minimum of "D" grade. If one of the principal passes is not either Advanced Mathematics or Physics an applicant must have a principal pass in one of the following subjects: Chemistry or Geography or Biology; In addition, an applicant must have minimum pass of D in Mathematics, Physics and Chemistry/Geography at O level.

OR

Possession of two principal passes of E in Advanced Mathematics and Physics, if one of the principal passes is not either Advanced Mathematics or Physics an applicant must have a principal pass in one of the following subjects: Chemistry or Geography or Biology, with Foundation Programme of the OUT with a minimum GPA of 3.0.

4.0 150 4

16. Bachelor of Technology in
Landscape Architecture

MB016 Two principal passes at least "D" grade at Advanced Level in Biology and Physics or Chemistry or Geography at A-Level and in addition an applicant must have a minimum pass of D in Mathematics, Physics, Biology and Chemistry/Geography at O-level

4.0 60 4

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S/N Programme Code Admission Requirements Minimum
Institutional

Admission points

Admission

Capacity

Programmes

Duration (YRS)

17. Bachelor of Engineering in Data
Science

MB017 Two principal passes of at least "D" grade at Advanced Level in Mathematics and Physics; In addition, an applicant must have a minimum pass

of D in Mathematics, Physics and Chemistry at O level.

OR

Possession of two principal passes of E in Advanced Mathematics and Physics with Foundation Programme of the OUT with a minimum GPA of 3.0.

4.0 70 4

18. Bachelor of Science in Food Science and Technology

MB018 Two principal passes of at least "D" grade in Chemistry and one subject among the following; Biology, Physics, Nutrition, Agriculture, Advanced Mathematics or Geography. In addition, an applicant must have minimum pass of D in Physics/Chemistry, Biology and Mathematics at O-level

4.0 120 3

19. Bachelor of Science in Natural Resources Conservation

MB019 Two principal passes of at least "D" grade at Advanced Level in Biology, and Chemistry/Geography/Agriculture/Nutrition; In addition, an applicant must have minimum pass of D grade in Biology and Chemistry/Geography/Agriculture and Nutrition At O-Level

4.0 130 3

20. Bachelor of Agribusiness Management and Technology

MB020 Two Principal Passes in the following subjects; Biology, Geography, Agriculture and Physics, Chemistry, Advanced mathematics, Economics, History, Food and Nutrition, Commerce, Accountancy.

In Addition, an applicant must have a pass in (4) non- Religious subjects of which one must be among the following; Biology, Commerce, Geography or Agriculture.

4.0 300 3

21. Bachelor of Sciences in Biotechnology

MB021 Two principal passes of at least „D" grade at Advanced Level in Mathematics, Biology and

Chemistry or Physics.

4.0 40

22. Bachelor of Science in Chemistry MB022 Two principal passes in Chemistry and in one of

the following subjects: Physics, Mathematics, Biology, Geography or Nutrition. In addition, an applicant MUST have passes in chemistry, physics and mathematics at O' Level.

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S/N Programme Code Admission Requirements Minimum

Institutional

Admission points

Admission

Capacity

Programmes

Duration (YRS)

23. Bachelor in Environmental

Science and Technology

MB023 Two principal passes of at least 'D' grade at Advanced Level in Chemistry, Physics, Biology, Advanced Mathematics or Geography. In addition, an applicant must have a minimum pass of "D" in Biology and Mathematics at O-Level.

4.0 80

6.10.5 ADMISSION REQUIREMENTS FOR BACHELOR PROGRAMMES FOR ACADEMIC YEAR 2024/2025 (For

Holders of Diploma or Equivalent Qualifications)

S/N Programme Code Admission Requirements Admission

Capacity

Programme Duration

(YRS)

1. Bachelor of Business

Administration

MB001 Diploma in Business Administration, Education, Marketing Social Studies, Industrial Relations, Economic Studies, Public Sector Finance Management, Information Technology with Accounting or Human Resource Management, Financial Administration, Business Administration, Local Government Accounting and Finance, Insurance and Risk Management, Customs and Tax Management, Freight Clearing and Forwarding, Statistics, Business Management, Procurement and Logistic Management or Banking and Finance with an average of "B" or a minimum GPA of 3.0.

100 3

2. Bachelor of Civil Engineering

MB002 Diploma or Full Technician Certificate (FTC) in Civil, Architecture, Mining, Water Resources, Highway, Transportation, Civil and Irrigation Engineering, Water Supply and Sanitation, Civil and Transportation, Civil and Community Development, Hydrogeology and water well drilling, Hydrology and Meteorology or Water Laboratory Technology, Technical Education in Civil with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders. In addition, an applicant must have a minimum of "D" grade in Mathematics, Physics and Chemistry at O-Level.

OR

In addition, an applicant must have at least four (4) Passes at O-Level, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

100 4

3. Bachelor of Electrical Engineering

MB003 Diploma or Full Technician Certificate (FTC) in Electrical, Electrical and Electronics, Biomedical Equipment Engineering, Renewable Energy, Electrical and Biomedical, Electronics and Telecommunication or Mechatronics Engineering, Technical Education in Electrical with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders.

In addition, an applicant must have a minimum of "D" grade in Mathematics, Physics and Chemistry at O-Level.

OR

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S/N Programme Code Admission Requirements Admission Capacity

Programme Duration (YRS)

In addition, an applicant must have at least four (4) passes at O- Level, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

4. Bachelor of Technology in Architecture

MB004 Diploma or Full Technician Certificate (FTC) in Architecture,

Architectural Technology, Technical Education in Architectural Technology with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders. In addition, an applicant must have a minimum of "D" grade in Mathematics, Physics and Chemistry/ Geography at O-Level.

OR

In addition, an applicant must have at least four (4) Passes at O-Level, two must be among the following subjects: Physics, Mathematics and Chemistry/ Geography with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

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5. Bachelor of Mechanical Engineering

MB005 Diploma or Full Technician Certificate (FTC) in Mechanical, Automotive, Automobile or Mechatronics Engineering Technical Education in Mechanical, Agro mechanics with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders in addition, an applicant must have a minimum of "D" grade in Mathematics, Physics and Chemistry at O-Level.

OR

In addition, an applicant must have at least four (4) Passes at O-Level, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA

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6. Bachelor of Computer Engineering

MB006 Diploma or Full Technician Certificate (FTC) in Computer Engineering, Computer Science, Software Engineering, Telecommunication Engineering, Information and Communication Technology (ICT), Electrical and Electronics or Mechatronics Engineering with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders. In addition, an applicant must have a minimum of "D" grade in Mathematics, Physics and Chemistry at O-Level.

OR

In addition, an applicant must have at least four (4) Passes at O-Level, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

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7. Bachelor of Science in Education

MB007 Diploma in Education, Diploma in Laboratory Science and Technology, Diploma in Technical Education with an average of "B" or a minimum GPA of 3.0.

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8. Bachelor of Laboratory Sciences and Technology

MB008 Diploma or Full Technician Certificate (FTC) in Laboratory Science and Technology with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders in addition, an applicant must have a minimum of "D" grade in Mathematics, Physics, Chemistry and Biology at O-Level.

OR

In addition an applicant must have at least four (4) Passes at O-Level,

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S/N Programme Code Admission Requirements Admission Capacity

Programme Duration

(YRS)

two must be among the following subjects: Physics, Chemistry, Biology and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

9. Bachelor of Engineering in Telecommunication Systems

MB009 Diploma or Full Technician Certificate (FTC) in Electronics and Telecommunication or Electrical and Electronic or Electrical Engineering with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders in addition, an applicant must have a minimum of "D" grade in Mathematics, Physics and Chemistry at O-Level.

OR

In addition, an applicant must have at least four (4) Passes at O-Level, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

20 4

10. Bachelor of Computer Science

MB010 Diploma or Full Technician Certificate (FTC) in Computer Engineering, Computer Science, Software Engineering,

Telecommunication Engineering, Information and Communication Technology (ICT) with an average of "B" or a minimum GPA of 3.0. In addition, an applicant must have four passes at O-Level, among them two must be Basic Mathematics and English.

20 3

11. Bachelor of Science in
Information and
Communication
Technology

MB011 Diploma or Full Technician Certificate (FTC) in Computer Engineering, Computer Science, Electrical and Electronics, Information and Communication Technology (ICT), or Mechatronics Engineering with an average of "B" or a minimum GPA of 3.0. In addition, an applicant must have four passes at O-Level; among them two must be Basic Mathematics and English.

20 3

12. Bachelor of Technical
Education in Electrical
and Electronics
Engineering

MB012 Diploma or Full Technician Certificate (FTC) in Technical Education, Electrical or Electrical and Electronics with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders
OR

In addition, an applicant must have at least four (4) Passes at O-Level, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

30 4

13. Bachelor of Technical
Education in
Mechanical
Engineering

MB013 Diploma or Full Technician Certificate (FTC) in Technical Education, Mechanical, Automotive, Automobile or Mechatronics Engineering with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders
OR

In addition an applicant must have at least four (4) Passes at O-Level, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

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14. Bachelor of Technical

Education in Civil
Engineering

MB014 Diploma or Full Technician Certificate (FTC) in Technical Education, Civil Engineering, Civil and Irrigation Engineering, Civil and Transportation or Civil and Community Development with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders

OR

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S/N Programme Code Admission Requirements Admission
Capacity

Programme Duration
(YRS)

In addition, an applicant must have at least four (4) Passes at O-Level, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

15. Bachelor of Technical

Education in
Architectural
Technology

MB015 Diploma or Full Technician Certificate (FTC) in Architecture with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders

OR

In addition, an applicant must have at least four (4) Passes at O-Level, two must be among the following subjects: Physics, Mathematics and Chemistry/ Geography with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

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16. Bachelor of

Technology in
Landscape Architecture

MB016 Diploma or Full Technician Certificate (FTC) in Landscape Architecture or Architecture or Civil engineering with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders

OR

In addition, an applicant must have at least four (4) Passes at O-Level, two must be among the following subjects: Biology, Physics, Mathematics and Chemistry/ Geography with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

20 4

17. Bachelor of
Engineering in Data
Science

MB017 Diploma or Full Technician Certificate (FTC) in Computer Engineering, Computer Science, Software Engineering, Telecommunication Engineering, Information and Communication Technology (ICT) with an average of "B" grade or a minimum GPA of 3.0 or an average of "C" grade for FTC holders.

OR

In addition, an applicant must have at least four (4) Passes at O-Level, two must be among the following subjects: Physics, Chemistry and Mathematics with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.

20 4

18. Bachelor of Science in
Food Science and
Technology

MB018 Diploma in Food Sciences and Technology, Laboratory Science and Technology or Food Science and Nutrition with an average of "B" or a minimum GPA of 3.0. In addition, an applicant must have a pass in at least Four (4) passes at O-level, three of which must be Mathematics, Physics/Chemistry and Biology.

20 3

19. Bachelor of Science in
Natural Resources
Conservation

MB019 Diploma in Wildlife Management, Wildlife Conservation, Forestry, Fisheries, Beekeeping, with an average of "B" or a minimum GPA of 3.0. In addition, an applicant must have four passes at O-Level; among them two must be Biology and Geography, Chemistry, Nutrition or Agriculture.

30 3

20. Bachelor of
Agribusiness
Management and
Technology

MB020 Diploma in Agribusiness, Agriculture, Agro mechanics and Irrigation with an average of "B" or a minimum GPA of 3.0. In addition, an applicant must have a minimum of "D" grade in one of the following subjects Agriculture or Commerce, Biology or Geography at O-Level.

100 3

21. Bachelor of Sciences in
Biotechnology

MB021 Diploma in Food Sciences and Technology, Laboratory Science and Technology or Food Science and Nutrition with an average of B or GPA not less than 3.0. In addition, an applicant must have a minimum of "D" 20 3

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S/N Programme Code Admission Requirements Admission

Capacity

Programme Duration

(YRS)

grade in one of the following subjects: Physics, Geography, Nutrition or Agriculture at O-Level.

22. Bachelor of Science in

Chemistry

MB022 Diploma in education or other diploma in sciences with an average of B or GPA not less than 3.0. In addition, an applicant MUST have passes in chemistry, physics and mathematics at O' Level.

20 3

23. Bachelor in

Environmental Science

and Technology

MB023 Diploma in Laboratory Science and Technology, Food Science and Technology, Environmental Health Sciences, Water Supply and Sanitation Engineering, Civil Engineering, Mining Engineering, Water Resources Engineering, Irrigation Engineering, Geology, Aquaculture/Marine Sciences, Agriculture, Forestry and Botany, Energy, Biology/Microbiology, Chemistry/Biochemistry and Physics OR Diploma in Secondary Education with any of the following teaching subjects; Biology, Chemistry, Physics and Mathematics with an average of B or GPA not less than 3.0. OR Foundation Programme of The OUT with a minimum GPA of 3.0. In addition, an applicant must have a minimum pass of "D" in Biology and Mathematics at O-Level

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7.0 UNIVERSITY GENERAL REGULATIONS

Upon admission all first-year students must obtain and thoroughly read the following:

- i. Students' By-laws.
- ii. Conditions for Government Sponsorship
- iii. Examination Regulations.
- iv. Library Regulations
- v. Industrial Practical Training Regulations
- vi. Constitution of MUSTSO
- vii. Any Other Relevant Rules, Guidelines and Regulations of the University

Any of these regulations can be obtained from the Director of Undergraduate Studies, Directorate of Student Services or Heads of respective Departments and University Library. Students can also access these Regulations directly from MUST website: www.must.ac.tz
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8.0 COURSES OFFERED IN VARIOUS PROGRAMMES

8.1 COLLEGE OF ENGINEERING AND TECHNOLOGY (CET)

8.1.1 DEPARTMENT OF CIVIL ENGINEERING

Programmes

The Department offers the following Programmes:

- a) Diploma in Civil Engineering
- b) Diploma in Highway Engineering
- c) Bachelor of Civil Engineering

8.1.1.1 LABORATORIES AND WORKSHOPS

- i. Pneumatic and Hydraulics Laboratory
- ii. Soil and Materials Testing Laboratory
- iii. Land Surveying Laboratory

8.1.1.2 LIST OF STAFF

(Head of Department)

Dr. Partice Nyangi Mkono Ph.D. in Structural Engineering (HUST, China), MSc. Civil Eng. (USTHB, Algeria), BSc. Civil Eng. (USTHB, Algeria).

Professors:

Prof. Zacharia Katambara Ph.D. WRE (Witwatersrand-South Africa), MSc. WRE Engineering (UDSM), BSc Civil Engineering (UDSM)

Senior Lecturer:

Dr. Duwa H. Chengula Ph.D. Materials Science (Kassel University – Germany), MSc. Highway Eng.

(UDSM) BSc. Civil Eng. (UDSM), FTC Civil Eng. (MTC)

Dr. Gislari Kifanyi Ph.D. WRE (Tshwane University of Technology – SA), MEM. (UDSM), PGD

(UDSM), BSc Civil Eng. (UDSM)

Lecturers:

Dr. Hieromin Mboya** Ph.D. Material Science and Eng. (Structural Material), MSc. Structural Eng.

(UDSM), PGD Structural Eng. (UDSM), ADE Civil Eng. (DIT), FTC Civil Eng. (MTC).

Dr. Partice Nyangi Mkono Ph.D. in Structural Engineering (HUST, China), MSc. Civil Eng. (USTHB, Algeria), BSc. Civil Eng. (USTHB, Algeria).

Mr. Joseph K. Mnkeni MSc. Highway Eng. (UDSM), PGD Highway Eng. (UDSM), ADE Civil Eng.

(DIT), FTC Civil Eng. (TCA)

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Assistant Lecturers

*Mr. Asson S. Malisa MSc. Materials Science Engineering, (NMAIST); BSc. Civil Engineering.

(UDSM)

*Mr. George Lupakisyo MSc. WRE (UDSM), BSc Civil Engineering. (UDSM).

*Mr. Martin Swila MSc. Structural Engineering (UDSM), BSc. Civil Engineering, (UDSM)

Mr. Ivor J. Ndimbo Master of Technology Water Resources Development. (IIT-Roorkee INDIA);

BSc. Civil Engineering (UDSM).

Mr. Mathew A. Gwao MSc. Geographical Information Systems (UDSM) BSc. Land Survey (UDSM)

*Mr. Daudi J. Makelemo MSc. Construction Economics and Management (ARU), BSc. Civil Engineering

(ARU).

*Mr. Richard M Mkindo MTech. Structural Eng. (NITK – India), Bachelor Civil Engineering (MUST)

Mr. Asifiwe Z. Swalo MTech. Transportation Eng. (NITK – India), Bachelor Civil Engineering (MIST),

Ordinary Diploma Civil Engineering (DIT).

Mr. Mussa G. Magaka MSc. Structural Engineering (UDSM), Bachelor Civil Engineering (MIST).

*Mr. Adam Shaaban Mgana MSc. Environmental Engineering (Cyprus International University- Cyprus), BSc.

Environmental Engineering (Cyprus International University- Cyprus), Diploma in Water Supply and Sanitation Engineering (Water Institute)

Mr. Kizito Patrick Mwilongo MSc. Materials Science and Engineering (Structural Materials) (Nelson Mandela

African Institution of Science and Technology, Arusha – Tanzania), BSc. Civil Engineering (St. Augustine University of Tanzania, Mwanza – Tanzania).

Tutorial Assistants

Mr. Venance R. Mwandupe BEng. Civil (MIST), FTC Civil Eng. (MTC),

Mr. Baraka Mosses BSc in Civil Engineering (Arusha Technical College)

*Ms Shamsa M. Nassibu Bachelor Civil Engineering (MUST), FTC Civil Eng. (TCA).

Mr. Cyriacus J. Rugakingira BSc. Civil (UDSM); FTC. Civil (Dar es Salaam Technical College)

Mr. George C. Lyimo BSc. Civil and Structural Engineering (UDSM); FTC. Civil (ATC)

Mr. Godfrey Mbungula Bachelor Civil Engineering (MUST), FTC (DIT)

Mr. Herfrid J. Mgeni ADE. Civil (MIST); FTC. Civil (MTC)

*Mr. Lameck Owiti Bachelor Civil Engineering (MUST)

Mr. Alfred B. Nyingi Bachelor Civil Engineering (MUST), OD. Civil (ATC)
Mr. Lameck Simon Kongo BSc. in Geoinformatics (Ardhi University)
Ms. Margaret S. Kironde BSc. in Environmental Science and Management
Mr. Tony Mbugi Bachelor of Civil Engineering (MUST), Diploma in Civil Engineering (MUST)
Mr. Isaac Sagamiko Bachelor of Civil Engineering (MUST).

Instructors

Mr. Valentino A. Chaffu MSc. in Civil Engineering (Maintenance Management) (DIT);
Bachelor Civil
Engineering (MIST), FTC in Civil Engineering (MTC).

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Mr. Crodiwick W. Ruvunduka Bachelor Civil Engineering (DIT), Ordinary Diploma
Transportation Engineering
(TCA).

*Mr. Kizito A. Ngowi MSc. in Geographical Information System (UDSM), Bsc. Urban &
Reg. Planning
(ARU); Ordinary Diploma in Cartography (Ardhi Inst.-Tabora) .

Mr. Stephano S. Maduka Bachelor Civil Engineering (MUST, Ordinary Diploma in
Transportation
Engineering (ATC)*

*Mr. Goodluck M. Masige MSc. Water and Sanitation Utility Management (AgroParis-
France), Bsc in Civil
Engineering (MUST)

Mr. Mohamed J. Mohamed MSc. Highway Eng. (UDSM), PGD Transportation Eng.
(UDSM), ADE Civil Eng.
(DIT), FTC Civil Eng. (DTC)

Mr. Edson B. Rogasian Bachelor Degree in Civil Engineering (MUST), Ordinary
Diploma in Civil
Engineering (MIST)

Technicians

Mr. Samwel J. Kihogo Bachelor Degree in Civil Engineering (MUST), Ordinary Diploma
in Civil
Engineering (MIST)

Mr. Aaron J. Maganga Bachelor Degree in Civil Engineering (MUST), FTC in Water
Laboratory
Technology (Water Resource Institute)

Mr. Nehemia Matabalo Bachelor Degree in Civil Engineering (MUST), OD. Civil Eng.
(MUST)

Ms. Editha Z. Faida Ordinary Diploma in Civil Engineering (MUST)

Artisans

Mr. Joseph Gesu Senior Artisan I

Mr. Lukonde Ng'andu Senior Artisan I

Office Secretary

Ms. Eliza Daniel Mwaisabila Diploma in Secretary and Ordinary Diploma in Business Administration

*On study leave

**Secondment

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8.1.1.3 PROGRAMME COURSES

DIPLOMA IN CIVIL ENGINEERING

A. Diploma in Civil Engineering (1st Year)

Semester I

Code Name Core or Elective Credits

MS 6128 Advanced Mathematics I Core 5

NS 6141 Advanced Physics I Core 5

HS 6117 Communication skills Core 5

IT 6116 Basic Computer Applications Core 5

HS 6116 Elements of Development Studies Core 5

CE 6101 Building Construction I Core 5

CE 6102 Building Workshop Practice I Core 10

CE 6103 Civil Engineering Materials I Core 9

CE 6104 Introduction to Engineering Drawing Core 8

CE 6105 Road Construction I Core 6

TOTAL 63

Semester II

Code Name Core or Elective Credits

MS 6129 Advanced Mathematics II Core 5

NS 6142 Advanced Physics II Core 5

IT 6117 Computer Applications Core 5

BM 6122 Entrepreneurship Core 5

CE 6106 Building Maintenance I Core 6

CE 6107 Building Workshop Practice II Core 12

CE 6108 Land Surveying I Core 6

CE 6109 Road Maintenance I Core 6

CE 6110 Soil Mechanics I Core 6

CE 6111 Structural Mechanics I Core 6

TOTAL 62

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B. Diploma in Civil Engineering (2nd Year)

Semester I

Code Name Core or Elective Credits

MS 6221 Advanced Mathematics III Core 5

NS 6221 Advanced Physics III Core 5

CE 6201 Building construction II Core 6

CE 6202 Building Design and Drawing Core 8

CE 6203 Building Workshop Practice III Core 8
CE 6204 Civil Engineering Materials II Core 6
CE 6205 Pavement Design and Construction Core 6
CE 6206 Soil Mechanics II Core 6
CE 6207 Structural Mechanics II Core 6
CE 6208 Industrial Practical Training Core 10
TOTAL 66

Semester II

Code Name Core or Elective Credits

MS 6225 Advanced Mathematics IV Core 5
NS 6223 Advanced Physics IV Core 5
CE 6209 Basics of Technical Report Writing Core 5
CE 6210 Building Maintenance II Core 5
CE 6211 Construction Management I Core 5
CE 6212 Land Surveying II Core 8
CE 6213 Quantity Surveying I Core 5
CE 6214 Reinforced Cement Concrete Design III Core 6
CE 6215 Road Maintenance II Core 5
CE 6216 Soil Mechanics III Core 5
CE 6217 Water Supply Core 8
TOTAL 62

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C. Diploma in Civil Engineering (3rd Year) Semester I

Semester II

DIPLOMA IN HIGHWAY ENGINEERING

A. Diploma in Highway Engineering (1st Year)

Semester I

Code Name Core or Elective Credits

MS 6128 Advanced Mathematics I Core 5
NS 6141 Advanced Physics I Core 5
HS 6117 Communication skills Core 5
IT 6116 Basic Computer Applications Core 5
HS 6116 Elements of Development Studies Core 5
CE 6101 Building Construction I Core 5
CE 6102 Building Workshop Practice I Core 10
CE 6103 Civil Engineering Materials I Core 9
CE 6104 Introduction to Engineering Drawing Core 8
CE 6105 Road Construction I Core 6
TOTAL 58

Code Name Core or Elective Credits

CE 6301 Building Construction III Core 7
CE 6302 Construction management II Core 7
CE 6303 Fluid Mechanics and Hydraulics Core 8

CE 6304 Quantity Surveying II Core 7
CE 6305 Reinforced Cement Concrete Design II Core 7
CE 6306 Structural Timber Design Core 8
CE 6307 Project I Core 8
CE 6308 Industrial Practical Training Core 10
TOTAL 62

Code Name Core or
Elective Credits

CE 6313 Building Construction IV Core 7
CE 6312 Civil Engineering Materials III Core 7
CE 6311 Construction Management III Core 7
CE 6309 Foundation Engineering Core 8
CE 6310 Reinforced Cement Concrete Design II Core 7
CE 6315 Structural Steel Design Core 8
CE 6314 Wastes Management Core 8
CE 6316 Project II Core 10
TOTAL 62

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Semester II

Code Name Core or Elective Credits

MS 6129 Advanced Mathematics II Core 5
NS 6142 Advanced Physics II Core 5
IT 6117 Computer Applications Core 5
BM 6122 Entrepreneurship Core 5
CE 6106 Building Maintenance, I Core 6
CE 6107 Building Workshop Practice II Core 12
CE 6108 Land Surveying I Core 6
CE 6109 Road Maintenance I Core 6
CE 6110 Soil Mechanics I Core 6
CE 6111 Structural Mechanics I Core 6
TOTAL 62

B. Diploma in Highway Engineering (2nd Year)

Semester I

Code Name Core or Elective Credits

MS 6221 Advanced Mathematics III Core 5
NS 6221 Advanced Physics III Core 5
CE 6201 Building construction II Core 6
CE 6202 Building Design and Drawing Core 8
CE 6203 Building Workshop Practice III Core 8
CE 6204 Civil Engineering Materials II Core 6
CE 6205 Pavement Design and Construction Core 6
CE 6206 Soil Mechanics II Core 6
CE 6207 Structural Mechanics II Core 6

CE 6208 Industrial practical training Core 10

TOTAL 66

Semester II

Code Name Core or

Elective Credits

MS 6225 Advanced Mathematics IV Core 5

NS 6223 Advanced Physics IV Core 5

CE 6209 Basics of Technical Report Writing Core 5

CE 6210 Building Maintenance II Core 5

CE 6211 Construction Management I Core 5

CE 6212 Land Surveying II Core 8

CE 6213 Quantity Surveying I Core 5

CE 6214 Reinforced Cement Concrete Design III Core 6

CE 6215 Road Maintenance II Core 5

CE 6216 Soil Mechanics III Core 5

CE 6217 Water Supply Core 8

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C. Diploma in Highway Engineering (3rd Year)

Semester I

Code Name Core or Elective Credits

CE 6321 Coordinate Geometry and Differential Equations Core 7

CE 6322 Correspondence, and Report Writing Core 7

CE 6323 Route design Core 8

CE 6324 Pavement Materials Core 7

CE 6325 Traffic and Transportation Engineering Core 7

CE 6320 Soil Mechanics and foundations Core 8

CE 6306 Structural Timber Design Core 8

CE 6308 Industrial Practical Training Core 10

TOTAL 62

Semester II

Code Name Core or

Elective Credits

CE 6329 Social and Environmental Management Core 7

CE 6328 Hydraulics and fluid mechanics Core 7

CE 6311 Construction Management III Core 7

CE6227 Pavement Engineering Core 8

CE 6314 Structural Steel Design Core 7

CE 6327 Basic Bridge Construction and maintenance Core 6

CE 6316 Project II Core 8

TOTAL 64

BACHELOR OF CIVIL ENGINEERING

A. Bachelor of Civil Engineering (1st Year)

Semester I

Code Name Core or
Elective Credits

MS 8101 Linear Algebra and Calculus Core 6

HS 8101 Communication Skills Core 9

CS 8104 Programming Concepts Core 9

DS 8101 Development Studies Core 6

BM 8108 Entrepreneurship Education Core 6

CE 8101 Engineering Drawing I Core 9

CE 8102 Construction Technology I Core 9

CE 8103 Workshop practice Core 8

CE 8104 Structural Mechanics I Core 8

TOTAL 62

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TOTAL 70

Semester II

Code Name Core or Elective Credits

MS 8102

DS 8108

Advanced Calculus

Development Perspectives

Core

Core

6

6

CS 8110 Advanced C Programming Core 6

CE 8105 Engineering Drawing II Core 9

CE 8106 Construction Technology II Core 9

CE 8107 Building Construction Core 7

CE 8108 Mechanics of Structures Core 8

CE 8109 Land Survey Core 6

TOTAL 60

B. Bachelor of Civil Engineering (2nd Year)

Semester I

Code Name Core or Elective Credits

MS 8201 Differential Equations Core 6

CE 8201 Soil Mechanics I Core 6

CE 8102 Civil Engineering Materials.-I Core 6

CE 8203 Fluid Mechanics Core 6

CE 8204 Engineering Survey I Core 9

CE 8205 Road Construction and Maintenance Core 9

CE 8206 Concrete Technology Core 6

CE 8207 Structural Analysis I Core 6

CE 8116 Industrial Practical Training Core 10

TOTAL 64

Semester II

Code Name Core or Elective Credits

MS 8303 Statistics and Numeric Analysis Core 6

CE 8208 Engineering Survey II Core 9.5

CE 8209 Fluid Mechanics and Hydraulics Core 9.5

CE 8210 Engineering Geology Core 6

CE 8211 Civil Engineering Materials.-II Core 9

CE 8212 Soil Mechanics II Core 6

CE 8213 Structural Analysis II Core 8

CE 8214 Building Planning and Drawing Core 6

TOTAL 60

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C. Bachelor of Civil Engineering (3rd Year)

Semester I

Code Name Core or Elective Credits

CE 8301 Quantity Survey I Core 7

CE 8302 Geometric Design and Traffic Engineering Core 9

CE 8303 Reinforced Concrete Design and Detailing I Core 10

CE 8304 Foundation Engineering Core 10

CE 8305 Highway Engineering Materials Core 6

CE 8306 Construction Management Core 8

CE 8307 Engineering Hydrology Core 6

CE 8216 Industrial Practical Training II Core 10

TOTAL 66

Semester II

Code Name Core or Elective Credits

CE 8308 Building Services Core 6

CE 8309 Quantity Surveying II Core 8

CE 8310 Reinforced Concrete Design and Detailing II Core 9

CE 8311 Water Supply Engineering Core 6

CE 8312 Contract Planning and Administration Core 9

CE 8313 Pavement Design and Construction Core 7

CE 8314 Research Methodology Core 7

CE 8315 Construction of Multi-Storey Structures Core 8

TOTAL 60

Bachelor of Civil Engineering (4th Year)

Semester I

Code Name Core or Elective Credits

CE 8401 Engineering Economics Core 6

CE 8402 Structural Steel Design Core 6

CE 8403 Waste Water Management Core 6

CE 8404 Pavement Maintenance Core 6

CE 8405 Bridge Design and Construction Core 6
CE 8406 Pre-Stressed Concrete Design Elective 6
CE 8407 Irrigation Engineering Elective 6
CE 8408 Project I Core 18
CE 8316 Industrial Practical Training III Core 10
TOTAL 70

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Semester II

Code Name Core or Elective Credits

CE 8409 Design of Masonry and Retaining Structures Core 6
CE 8410 Structural Timber Design Core 6
CE 8411 Solid Waste Management Core 6
CE 8412 Industrial Building Construction Core 6
CE 8413 Hydraulic Structures Core 6
CE 8414 Transportation Engineering Elective 6
CE 8415 Water Resources Management Elective 6
CE 8416 Project II Core 18

TOTAL 60

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8.1.2 DEPARTMENT OF GEOSCIENCE AND MINING TECHNOLOGY

Programmes

The Department currently offers one (1) Programme:

A. Diploma in Mining Engineering

8.1.2.1 LABORATORIES AND WORKSHOPS

i. Mining Laboratory

8.1.2.2 LIST OF STAFF

(Head of Department)

Dr. Alex W. Mwang'ande PhD. Oil & Gas Wells Eng. (China University of Petroleum, East China); MSc.

Petroleum Eng. (Norwegian University of Science and Technology); BSc. Mech. Eng. (UDSM)

Lecturers:

Dr. Alex W. Mwang'ande PhD. Oil & Gas Wells Eng. (China University of Petroleum, East China); MSc.

Petroleum Eng. (Norwegian University of Science and Technology); BSc. Mech. Eng. (UDSM)

Dr. Muya Somo Mgaza PhD. Geotechnical Eng. (Huazhong University of Science and Technology

[HUST]); MSc. Geotechnical Eng. (HUST); BSc. Geology (UDSM).

Dr. Raphael Iddphonc Mkini PhD. Oil and Natural Gas Eng. (China University of Geosciences, Wuhan); MSc

Renewable Energy. Eng (UDSM); BSc. Mech. Eng. (UDSM)

Dr. Alvin Kajongo Mulashani PhD. Oil and Natural Gas Eng. (China University of Geosciences, Wuhan); MSc.

Oil and Gas Dev. Eng. (Xi'an Shiyou, China); BSc. Mech. Eng. (MIST).

Dr. Melckzedek M. Mgimba PhD. Oil and Natural Gas Eng. (China University of Geosciences, Wuhan); MSc.

Petroleum Eng. (Norwegian University of Science and Technology); BSc. Mining Eng. (UDSM)

Assistant lecturers

Mr. Wilson L. Ngole MSc. Petroleum Eng. (Norwegian University of Science and Technology); BSc.

Mining Eng. (UDSM)

Mr. Nickson N. Lushasi* MSc. Oil and Natural Gas Eng. (China University of Geosciences, Wuhan); BSc.

Mining Eng. (UDSM)

Mr. Osmund E. Mwangupili* MSc. Oil and Natural Gas Eng. (China University of Petroleum, East China); BSc.

Mining Eng. (UDSM)

Mr. Salehe R. Mayange MSc. Hydrogeology (University of Badji Mokhtar Annaba [UBMA] – Algeria);

BSc. Applied Geology (UBMA).

Mr. Oltingey T. Lindi* MSc. Petroleum Eng. (Norwegian University of Science and Technology); BSc.

Mining Eng. (UDSM)

Mr. Deus A. Msumange* MSc. Mining Eng. (Karadeniz Technical University, Turkey); BSc. Geology

(Badji Mokhtar Annaba University [UBMA], Algeria)

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Instructors

Mr. Adamu Musa MSc. Oil and Natural Gas Eng. (China University of Geosciences, Wuhan); BSc.

Mining Eng. (UDSM)

Mr. Frank A. Mwakyembe* BSc. Mining Eng. (UDSM)

Mr. Abasi A. Hawaii BSc. Mining Eng. (UDSM)

Technicians

Ms. Asha Thobias Chiwanga* Ordinary Diploma in Mining Eng. (MRI-Dodoma)
Office Secretary

Ms. Marjory E. Katage* Certificate in Social work

*On study leave

8.1.2.3 PROGRAMME COURSES

DIPLOMA IN MINING ENGINEERING

A. Diploma in Mining Engineering (1st Year)

Semester-I

Code Name Core or Elective Credits

GM 6101 Introduction to Mining Core 6
GM 6102 Introduction to Physical Geology Core 6
CE 6118 Introduction to Engineering Drawing Core 8
CE 6120 Building Workshop Practice – I Core 10
CE 6208 Land Surveying - I Core 6
MS 6128 Advanced Mathematics - I Core 6
NS 6141 Advance Physics - I Core 6
HS 6116 Elements of Development Studies Core 6
HS 6117 Communication Skills Core 6
IT 6116 Introduction to Computer Core 6
TOTAL 66

Semester-II

Code Name Core or Elective Credits

GM 6103 Introduction to Basics of Surface Mining Core 9
GM 6104 Basic Mineralogy, Petrology and Ore Geology Core 6
GM 6105 Introduction to Safety and Risk Assessment in Mining Core 9
CE 6122 Building Workshop Practice – II Core 12
CE 6215 Land Surveying- II Core 6
MS 6129 Advanced Mathematics - II Core 6
NS 6140 Advanced Physics - II Core 6
BM 6122 Entrepreneurship Core 6
IT 6117 Computer Application Core 6
TOTAL 66

B. Diploma in Mining Engineering (2nd Year)

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Semester I

Code Name Core or Elective Credits

GM 6201 Drilling and Blasting- I Core 12
GM 6202 Mine Equipment and Maintenance Management Core 12
GM 6203 Introduction to Mine Environment Core 9
GM 6204 Field Practical Training-I Core 10
CE 6307 Fluid Mechanics and Hydraulics Core 9
MS 6221 Calculus Core 6
NS 6221 Advanced Physics - III Core 6
TOTAL 64

Semester II

Code Name Core or Elective Credits

GM 6205 Drilling and Blasting-II Core 12
GM 6206 Introduction to Rock Mechanics Core 12
GM 6207 Introduction to Mineral Economics and Mining Regulatory Framework Core 12
GM 6208 Basics of Ore Dilution and Production Control Core 6
GM 6209 Basics of Technical Report Writing Core 6

GM 6210 Small Scale Mining Techniques Core 6

MS 6225 Advanced Mathematics - III Core 6

NS 6223 Advanced Physics - IV Core 6

TOTAL 66

C. Diploma in Mining Engineering (3rd Year)

Semester I

Code Name Core or Elective Credits

GM 6301 Underground Mining Core 12

GM 6302 Introduction to Tailing Storage Facilities Core 9

GM 6303 Introduction to Mine Surveying Core 9

GM 6304 Mining Laboratory - I Core 6

GM 6305 Introduction to Hydrogeology Core 9

GM 6306 Project – I Core 9

GM 6307 Field Practical Training- II Core 10

TOTAL 64

Semester - II

Code Name Core or Elective Credits

ts

GM 6308 Underground Mine Support Systems Core 9

GM 6309 Mine Ventilation Core 12

GM 6310 Material Handling System Core 9

GM 6311 Mining Laboratory – II Core 6

GM 6312 Introduction to Management in Mining Core 9

GM 6313 Introduction to Mineral Processing Techniques Core 12

GM 6314 Project – II Core 9

TOTAL 66

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8.1.3 DEPARTMENT OF ELECTRICAL AND POWER ENGINEERING

Programmes

Currently, the Department offers two (2) Programmes:

- i. Diploma in Electrical and Electronics Engineering
- ii. Bachelor of Electrical and Electronics Engineering

8.1.3.1 LIST OF STAFF

(Head of Department)

Dr. Isaka J. Mwakitalima, PhD. Electrical Eng. (Delhi Technological University, India),
MSc. Sustainable

Energy (NM-AIST), Bachelor Electrical and Electronics (SJCET), Dip.Ed.

Electrical (Klerruu TTC), FTC Electrical (ATC)

Senior Lecturers

Dr. John P. John, PhD. Energy Eng. (Berlin Tech. University-Germany), MSc. Elect. Eng.
(UDSM), B. Eng. Elect. (DIT), FTC. (ATC)

Dr. Arthur Mngoma Omari, PhD Energy Eng. (NM-AIST), MSc Elec. Eng. (Kharkov State
Technical

University of Agriculture- Ukraine), Tech. Ed. (Morogoro)

Lecturers

Dr. Isaka J. Mwakitalima, PhD. Electrical Eng. (Delhi Technological University, India), MSc. Sustainable

Energy (NM-AIST), Bachelor Electrical and Electronics (SJCET), Dip.Ed.

Electrical (Klerruu TTC), FTC Electrical (ATC).

Assistant Lecturers

Mr. Watson E. Yotham, MSc. Elect. Eng. (UDSM), BSc. Elect. Eng. (UDSM), Tech. Ed. (Morogoro)

*Mr. Owdean M. Suwi, Msc. Elect. Eng. (UDSM), BSc. Elect Eng., (UDSM). Tech. Ed. (Morogoro)

*Mr. Sospeter I. Gabriel, MSc. Elect. Eng. (UDSM), B. Eng. Elect. (DIT), FTC Elect.Eng. (DIT)

Mr. Vincet V. Massawe, MSc Elect.Eng. (St. Petersburg State Polytechnical University- Russia); BSc

Elect. Eng. (Russia); FTC in Mech. Eng. (ATC)

*Mr. Godwin E Mnkeni, MSc. Elect. Eng. (UDSM), ADE Elect. Eng. (DIT), Dip. Elect. Eng. (Kidatu),

Tech. Ed. (Morogoro)

*Mr. Exaud S. Tweve, MSc. Elect. Eng. (UDSM), ADE Elect.Eng. (DIT), FTC Elect. Eng. (MTC)

*Mr. Nicholas G. Moyo, MSc. Elect. Eng. (UDSM), PGD Elect. Eng. (UDSM), ADE (Elect. Eng. (DIT),

FTC (ATC)

*Mr. Wilbert Ruta MSc. Elect. Eng (JKUo A), BEng. Electrical and Electronics (MUST), Diploma

Electrical and Electronics (MIST)

Mr. Joshua J. Mlay MEng. Power Engineering and Engineering Thermophysics (HUST)- CHINA,

BEng. Electrical and Electronics (MUST), DEng. Electrical and Electronics (MUST)

*Mr. Emmanuel G Swetala MTech Electrical Power Systems (JNTUA)-INDIA, BSc. Electrical Engineering

(UDSM)

*Mr. Salehe S. Malamla Masters of Electrical Eng. Shandong University, China, BSc- Electrical (SAUT)

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Mr. Stuart Brown M. Eng. (Power Systems), BEng. Electrical and Electronics (SAUT) Tutorial Assistants

Mr. Makunja O. Bwire BEng. Electrical Engineering (MUST), DEng Electrical and Electronics (MIST)

Mr. Romanus P. Lyanda BSc. Electrical Engineering (UDSM)

Mr. Fredy F. Loita BSc. Electrical Engineering (UDSM)

*Mr. Gwamaka Mwasomola BEng. Electrical and Electronics (MUST)

Mr. Mnaka philipo Ndyanido BEng. Electrical and Electronics (MUST)

Mr. Mussa Salanya Petro BEng. Electrical and Electronics (MUST)

Instructors

*Mr. Raphael J. Mwasoni BEng. Electrical Engineering (DIT), DTE (KLERRUU TTC), FTC

Electrical

(MTC)

*Mr. Novatus Kimenyuka BEng. Electrical and Electronics (MUST), Deng. Electrical and

Electronics

(MIST)

*Mr. Andrew S. Mwampulo BEng. in Electrical and Electronics (MUST), DSE (Butimba

Teachers College)

*Mr. Furahini I Shelukindo BEng. Electrical and Electronics (MUST), Deng. Electrical

and Electronics

(MUST)

Technicians

Mr. Mateso Stephano Ntinyako Dip. Eng. (St. Joseph University in Tanzania)

Artisans

Mr. Joseph Nsembele Trade Test Grade One (Mbeya VTC)

*On study leave

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8.1.3.2 PROGRAMME COURSES

DIPLOMA IN ELECTRICAL AND ELECTRONIC ENGINEERING

A. Diploma in Electrical and Electronic Engineering (1st Year)

Semester I

Fundamental Courses

Code Name Credits

MS 6121 Advanced Mathematics I 6

NS 6139 Physical Science I 6

HS 6117 Communication Skills 6

IT 6116 Introduction to Computer 6

HS 6116 Element of Development Studies 6

Core Courses

EE 6116 Basics of Electrical engineering I 6

EE 6117 Basics of Electrical Installation and Maintenance 6

EE 6118 Fundamental of Electrical Materials 6

EE 6119 Electrical Workshop Technology I 8

EE 6120 Technical Drawing I 6

ET 6116 Basic of Electronics 6

TOTAL 68

Semester II

Fundamental Courses

Code Name Credits

MS 6122 Advanced Mathematics I I 6

NS 6145 Physical Science II 6

BM6122 Entrepreneurship 6

IT 6117 Computer Applications 6

Core Courses

ET 6117 Analogue Electronics 6

ET 6118 Analogue Electronics Lab 8

EE 6121 Basic of Electrical Engineering II 6

EE 6122 Electrical Measurements 6

EE 6123 Technical Drawing II 6

EE 6124 Electrical Workshop Technology II 8

TOTAL 64

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B. Diploma in Electrical and Electronic Engineering (2nd Year)

Semester I

Fundamental Courses

Code Name Credits

MS 6221 Advanced Mathematics III 6

CS 6224 Computer Programming Basics 7

Core Courses

EE 6201 Industrial Practical Training I 10

ET 6201 Digital Electronics I 6

EE 6202 DC Machines 7

EE 6203 Domestic Installation Testing and Commissioning 6

EE 6204 Electrical Equipments 6

EE 6205 Fundamental of automations I 6

EE 6206 Electrical Measurement Lab 6

EE 6207 Power Plant 6

TOTAL 66

Semester II

Fundamental Courses

Code Name Credits

ST 6221 Advanced Mathematics IV 6

CS 6202 Object Orient Programming 7

Core Courses

EE 6208 AutoCAD 7

EE 6209 Electrical power Transmission and Distribution 7

ET 6206 Digital Electronics II 8

EE 6210 Fundamental of Automation II 6

EE 6211 Introduction to Engineering Software 8

EE 6212 Statics AC Machines 7

EE 6213 Static and Dynamic Machines Control 9

TOTAL 66

C. Diploma in Electrical and Electronic Engineering (3rd Year)

Semester I

Core Courses

Code Name Credits

EE 6301 Industrial Practical Training II 10
EE 6302 Basic of Control System Engineering 6
EE 6303 Basics of Power Protection 7
EE 6304 Electrical Drives I 6
ET 6302 Microprocessor and Microcontrollers 8
EE 6305 Motor and Transformer Rewinding 8
EE 6306 Power System Operations and Control 7
EE 6307 Power Electronics 6
EE 6308 Project 1 8
TOTAL 66

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Semester II

Core Courses

Code Name Credits

EE 6317 Basic Telecommunication Engineering 6
EE 6309 Control Engineering 7
EE 6310 Electrical Drives II 6
EE 6311 Electrical Installations 6
EE 6312 Induction Motors 6
EE 6313 Power Protection 6
EE 6314 Programmable Logic Controller 7
EE 6315 Synchronous Machines 6
EE 6316 Renewable Energy 6
EE 6317 Project II 10
TOTAL 66

BACHELOR OF ELECTRICAL AND ELECTRONIC ENGINEERING

A. Bachelor of Electrical and Electronic Engineering (1st Year)

Semester I

Code Title Credit

EE 8101 Fundamentals of Electrical Measurement 4
EE 8102 Fundamentals of Electronics 4
EE 8103 Basics of Workshop Technology and Practice 9
EE 8104 Basics of Electrical Engineering 6
EE 8105 Electrical Installation and Safety 4
IT 8116 Computer Application 6
ME 8176 Fundamental of Technical Drawings I 5
MS 8121 Linear Algebra and Calculus 6
HS8101 Communication Skills 9
DS8101 Development Studies 6

BM 8108 Entrepreneurship 9

TOTAL 68

Semester II

Code Title Credit

EE 8106 Fundamental of Electronics Devices 6

EE 8107 Fundamentals of Electrical Power Systems 6

EE 8108 Fundamentals of Electrical Machines 9

EE 8109 Workshop Technology & Practice 9

EE 8110 Electrical Maintenance 6

EE 8111 Basics of Control Engineering 6

IT 8117 Computer Networking 7

ME8177 Technical Drawing 5

MS 8122 Advanced Calculus 6

DS 8108 Development Perspective 6

TOTAL 66

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B. Bachelor of Electrical and Electronic Engineering (2nd Year)

Semester I

Core courses

Code Title Credit

EE 8201 Industrial Practical Training I 10

EE 8202 Electrical Network Analysis 6

EE 8203 Electrical Measurement and Instrumentation. 6

EE 8204 Fundamentals of Analogue Electronics 6

EE 8205 Basics of Engineering Electromagnetic 6

ME 8277 Fundamental of Engineering Mechanics 5

EE 8206 Power Plant 6

EE 8207 Engineering software 5

MS 8221 Differential Equations 6

ME 8276 Engineering drawing I 6

TOTAL 62

Semester II

Core courses

Code Title Credit

MS 8222 Numerical Analysis and Statistics 6

EE 8208 Electrical Circuits Analysis 6

ME 8278 Computer Aided Drafting 6

EE 8210 Basic of Power Systems 7

EE 8212 Analogue electronics 6

EE 8213 Engineering electromagnetic 6

ME 8279 Engineering Thermodynamics 6

EE 8215 Electrical Engineering Materials 6

EE 8216 Basics of Computer systems engineering 6

CS 8204 Computer Programming 5

TOTAL 60

C. Bachelor of Electrical and Electronic Engineering (3rd Year)

Semester I

Core Courses

Code Title Credit

EE 8301 Industrial Practical Training II 10

EE 8302 DC Electrical Machines 8

EE 8303 Modelling in Control Systems Engineering 8

EE 8211 Electrical Power Transmission and Distribution 8

EE 8305 Basics of Power Electronics 8

EE 8306 Fundamental of Digital Electronics 7

IT 8317 Object Oriented Programming 6

EE 8308 Basics of Analogue Telecommunication 5

TOTAL 60

Semester II

Core Courses

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Code Title Credit

EE 8309 Environmental Engineering Management 6

EE 8310 3 – Phase AC Machines 7

EE 8304 Electrical power systems Analysis 7

EE 8311 Control System Engineering Analysis 7

EE 8312 Microprocessor 6

EE 8314 Power Electronics Circuits 7

EE 8315 Digital electronics 7

EE 8316 Basics of Digital Telecommunication 5

EE 8317 Electrical Safety and Maintenance 6

EE 8318 Research Methodology 6

TOTAL 64

D. Bachelor in Electrical and Electronic Engineering (4th Year)

Semester I

Core Courses

Code Title Credit

EE 8401 Industrial Practical Training III 10

EE 8402 3 – Phase AC Synchronous Machines 8

EE 8403 Digital Control System Engineering 9

EE 8404 Programmable Logic Controller 6

EE 8315 Electrical Power Systems Dynamics 9

EE 8406 Power Electronics Converters 6

EE 8407 Engineering Operation Management 6

EE 8408 Project I 12

TOTAL 66

Semester II

Core Courses

Code Title Credit

EE 8409 Laws for Engineers 6

EE 8410 Electrical Drives 9

EE 8411 Digital systems engineering 6

EE 8412 High voltage Engineering 8

EE 8413 Engineering Economic 6

EE 8414 Switchgear and Protection Engineering 8

EE 8415 Renewable Energy Technologies (RE) 6

EE 8416 Project II 12

TOTAL 61

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8.1.4 THE DEPARTMENT OF MECHANICAL AND INDUSTRIAL ENGINEERING

Programmes

The Department offers five (5) Programmes:

- a) Diploma in Mechanical Engineering
- b) Diploma in Mechanical Engineering with Industrial Safety and Occupational Health
- c) Diploma in Mechatronics Engineering
- d) Diploma in Automotive and Auto-electrical Engineering
- e) Bachelor of Mechanical Engineering

8.1.4.1 LABORATORIES AND WORKSHOPS

- i. Mechatronics and safety Laboratory
- ii. Energy Laboratory
- iii. Machine Shop
- iv. Welding Workshop
- v. Automotive Workshop
- vi. Foundry Workshop
- vii. Forging Workshop
- viii. Materials Laboratory

8.1.4.2 LIST OF STAFF

(Head of Department)

Dr. Wambura M. Mwita PhD Mech. Eng. (UJ-SA), MSc Mech. Eng. (CPUT-SA), BSc Mech. Eng. (UDSM).

Lecturers

Dr. Wambura M. Mwita PhD Mech. Eng. (UJ-SA), MSc Mech. Eng. (CPUT-SA), BSc Mech. Eng. (UDSM).

Dr. Joel Mbwiga PhD Renewable Energy (UDSM), MSc Renewable Energy Eng. (UDSM) BSc Electro. Mech Eng. (UDSM)

Dr. Masoud Kamoleka PhD mech Eng. (HEU-China), MSc Renewable. Energy Eng. (UDSM),

BSc. Electro-Mech. Eng. (UDSM).

Assistant Lecturers

Mr. Lekamere N. Kariwa MSc. Renewable Energy Eng. (UDSM), B. Eng. Mechanical (DIT),

Diploma in Technical Education (Kleruu), FTC Automotive Eng. (TCA).

Mr. Emmanuel A. Mwangomo MSc Renewable Energy Eng. (UDSM), BSc Mech. Eng. (UDSM)

Diploma in Ed. (Kleruu).

Mr. Vicent Marwa* MSc Energy Eng. (UDSM), PGDE Mech, ADE Mech. (MIST), FTC Auto. Eng. (TCA).

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Mr. Ballo Mwendapole* MSc Energy Eng. (UDSM), PGDE Mech. (UDSM), ADE Mech. (MIST),

FTC Mech. Eng. (MTC).

Mr. Silla W. Livifile* MSc. Prod Eng. (UDSM), PGDE Mech. (UDSM), ADE Mech. (MIST), FTC. Mech. Eng. (TCA).

Mr. Yasini S. Nalinga*. MSc. Energy Eng. (NM-AIST), B. Eng. Mechanical (MIST), FTC Mechanical Eng. (MTC).

Mr. Philemon X. Mutabilwa* MSc Mech. Eng. (UB-Botswana), B. Eng. Mechanical (DIT), FTC Mech.

(DIT) *

Tutorial Assistants

Mr. Israel Komba MSc. Prod Eng. (UDSM), PGDE Mech. (UDSM), ADE Mech. (DIT), DTE Mech. (Kleruu), FTC Mech. Eng. (DIT).

Mr. Jonathan Lunyungu PGDE-Mechanical (UDSM), ADE Mech. (MTC), FTC Mech. (MTC).

Mr. Yeremia D. Gwau B.Eng. Mechanical (MUST), DTE (Kleruu), FTC. Mech. Eng. (TCA).

Mr. Erasto S. Hebuka. B.Eng. Mechanical. (DIT), DTE (Kleruu), FTC Mechanical (DTC).

Mr. Paulo S. Zebedayo* B.Eng. Mechanical (MUST), Diploma in Mech. Eng. (MUST).

Mr. Sikudhan L. Mpuhus* B.Eng. Mechanical. (MUST), Diploma in Mech. Eng. (MIST).

Mr. Shanel B. Mbawala B. Auto. Eng. (NIT).

Mr. Paulo K. Shayo* BEng Mechanical (MUST).

Mr. Gabriel Leonard Swilla BEng Mechanical (MUST).

Mr. Ramadhan A. Swai BEng Mechanical (MUST).

Mr. Musa Daud* BEng Mechanical (MUST).

Mr. Nsajigwa L. Mbamba BEng Mechanical (MUST), Diploma in Mechanical Eng. (MUST).

Instructors

Dr. Petro D Ndalila PhD, Oil-Gas, Storage and Transportation Eng. China University of Petroleum (EAST CHINA), MSc Renewable Energy (UDSM), BSc Chemical and Process Eng. (UDSM).

Mr. Evans N. Tweve MSc. Mech. Eng. (UDSM), PGDE-Mechanical. (UDSM), ADE. Mechanical. (MIST), FTC. Mechanical. Eng. (MTC)

Mr. Seuri S. Kilakoi* MSc Energy (CIMAV, Mexico), B.Eng. Mechanical (DIT), FTC Mechanical Eng. (MTC).
 Mr. Samwel E. Mwasanjobe B. Eng. Mechanical (MUST), Dip. Marine. Eng. (Mbegani).
 Mr. Michael T. Mwakyonya Master in Sustainable Energy (DIT), ADAE-Automotive Engineering (NIT), DAE-Automotive Eng. (NIT).
 Mr. Emmanuel S. Sakalani B.Eng. Mechanical (MUST) Diploma in Mechanical Eng. (ATC).
 Mr. Kassim S. Fakhi B.Eng. Mechanical (MUST) Diploma (Edu)-(Morogoro TTC).
 Laboratory Engineer
 Mr. Hamisi M. Egari BEng Mechanical (MUST), Diploma in Automotive Eng. (ATC).
 Artisans
 Ms. PalestinaNdelwa Trade Test Grade II in welding and Metal Fabrication (NVTD - Dar).
 Mr. Nelson Tawete Motor Vehicle Mechanics Level III-VETA –Morogoro.

Office Secretary

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Magreth Mwakapala Diploma in Secretary

*On study leave

8.1.4.3 PROGRAMMES COURSES

DIPOMA IN MECHANICAL ENGINEERING

A. Diploma in Mechanical Engineering (1st Year)

Semester I

Code Name Credit

ME 6116

ME 6117

ME 6118

ME 6119

IT 6117

HS 6116

HS 6117

NS 6139

MS 6123

Engineering Drawing I

Engineering Materials I

Automotive Technology I

Manufacturing Engineering I

Fundamental Computer Application

Elements of Development Studies

Communication Skills I

Applied Physics I

Applied Mathematics I

8

7
8
9
6
6
6
6
6

TOTAL 62

Semester II

Code Name Credit

ME 6120

ME 6121

ME 6122

ME 6123

ME 6124

CS 6124

BM 6122

NS 6144

MS 6124

Engineering Drawing II

Engineering Materials II

Automotive Technology II

Manufacturing Engineering II

Mechanical Engineering Science I

Computer programming

Entrepreneurship

Applied Physics II

Applied Mathematics II

9
7
9
9
6
6
6
6
6

TOTAL 64

B. Diploma in Mechanical Engineering (2nd Year)

Semester 1

Code Name Credit

ME 6201

ME 6202

ME 6203
ME 6204
ME 6205
ME 6206
ME 6207
MS 6222
ME 6208
Computer Aided Drafting I
Strength of Materials
Automotive Technology III
Manufacturing Engineering III
Thermodynamics
Mechanical Engineering Science II
Engineering Measurement and Control
Applied Mathematics III
Industrial Practical Training I

8

6

9

9

6

6

6

6

10

TOTAL 66

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79

Semester II

Code Name Credit

ME 6209

ME 6210

ME 6211

ME 6212

ME 6213

ME 6214

EE 6270

EE 6271

MS 6223

Computer Aided Drafting II

Auto Electrical Systems

Manufacturing Engineering IV

Machine Elements and Design I

Fluids Mechanics

Fundamental of Programmable Logic Controllers
Electrical Engineering Science
Basic Electronics
Applied Mathematics IV

9

9

9

6

6

7

6

6

6

TOTAL 64

C. Diploma in Mechanical Engineering (3rd Year)

Semester I

Code Name Credit

ME 6301

ME 6302

ME 6303

ME 6304

ME 6305

ME 6306

MS 6322

ME 6307

ME 6308

Machine Elements and Design II

Power plant I

Refrigeration

Environment Management

MechatronicsTechnology

Fundamental of Research Methodology

Boolean Algebra and Statistics

Mechanical Project I

Industrial Practical Training II

6

6

9

6

7

6

6

10

10

TOTAL 66

Semester II

Code Name Credit

ME 6309

ME 6310

ME 6311

ME 6312

ME 6313

ME 6314

ME 6315

ME 6316

ME 6317

Machine Elements and Design III

Power plant II

Air Conditioning

Computer Based Manufacturing

Workshop Management

Industrial Safety and Maintenance

Hydraulic and Pneumatic systems

Quality Control and Costing Management

Mechanical Project II

6

6

9

9

6

6

7

7

10

TOTAL 66

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DIPLOMA IN MECHANICAL ENGINEERING WITH INDUSTRIAL SAFETY AND
OCCUPATIONAL HEALTH

A. Diploma in Mechanical Engineering with Industrial Safety and Occupational Health
(1st Year)

Semester I

Code Name Credit

ME 6116

ME 6117

ME 6118

ME 6119

IT 6117

HS 6116
HS 6117
NS 6139
MS 6123
Engineering Drawing I
Engineering Materials I
Automotive Technology I
Manufacturing Engineering I
Fundamental Computer Application
Elements of Development Studies
Communication Skills I
Applied Physics I
Applied Mathematics I

8

7

8

9

6

6

6

6

6

TOTAL 62

Semester II

Code Name Credit

ME 6120

ME 6121

ME 6122

ME 6123

ME 6124

CS 6124

BM 6122

NS 6144

MS 6124

Engineering Drawing II

Engineering Materials II

Automotive Technology II

Manufacturing Engineering II

Mechanical Engineering Science I

Computer programming

Entrepreneurship

Applied Physics II

Applied Mathematics II

9

7
9
9
6
6
6
6
6

TOTAL 64

B. Diploma in Mechanical Engineering with Industrial Safety and Occupational Health
(2nd Year)

Semester 1

Code Name Credit

ME 6201

ME 6202

ME 6203

ME 6204

ME 6205

ME 6206

ME 6207

MS 6222

ME 6208

Computer Aided Drafting I

Strength of Materials

Automotive Technology III

Manufacturing Engineering III

Thermodynamics

Mechanical Engineering Science II

Engineering Measurement and Control

Applied Mathematics III

Industrial Practical Training I

8
6
9
9
6
6
6
6
10

TOTAL 66

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81

Semester II

Code Name Credit

ME 6209

ME 6210

ME 6211

ME 6212

ME 6213

ME 6214

EE 6270

EE 6271

MS 6223

Computer Aided Drafting II

Auto Electrical Systems

Manufacturing Engineering IV

Machine Elements and Design I

Fluids Mechanics

Fundamental of Programmable Logic Controllers

Electrical Engineering Science

Basic Electronics

Applied Mathematics IV

9

9

9

6

6

7

6

6

6

TOTAL 64

C. Diploma in Mechanical Engineering with Industrial Safety and Occupational Health
(3rd Year)

Semester I

Code Name Credit

ME 6301

ME 6326

ME 6303

ME 6327

ME 6304

ME 6328

MS 6322

ME 6329

ME 6308

Machine Elements and Design II

Occupational Health and Industrial Hygiene

Refrigeration
Fire Engineering and Explosion Control
Environment Management
Industrial Safety and Occupational Health act
Boolean Algebra and Statistics
Safety Engineering Project I
Industrial Practical Training II

6

6

9

7

6

6

6

10

10

TOTAL 66

Semester II

Code Name Credit

ME 6309

ME 6330

ME 6311

ME 6331

ME 6313

ME 6332

ME 6333

ME 6334

MS 6335

Machine Elements and Design III

Safety at Workplace

Air Conditioning

Accident Prevention Techniques

Workshop Management

Safety in Material Handling

Plant Design and House Keeping

Safety in Mines

Safety Engineering Project II

6

6

9

6

6

6

6

6

10

TOTAL 61

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82

DIPLOMA IN MECHATRONICS ENGINEERING

A. Diploma in Mechatronics Engineering (1st Year)

Semester I

Code Name Credit

ME 6116

ME 6125

ME 6126

ME 6118

ME 6127

EE 6170

IT 6117

HS 6117

NS 6139

MS 6123

Engineering Drawing I

Fundamentals of Engineering Materials

Fundamentals of Engineering Mechanics

Automotive Technology I

Workshop Practice I

Fundamentals of Electrical Engineering

Fundamental of computer application

Communication skills

Applied Physics I

Applied Mathematics I

8

6

6

8

8

6

6

6

6

6

TOTAL 66

Semester II

Code Name Credit

ME 6120

ME 6122

ME 6128
EE 6171
BM 6122
EE 6172
CS 6124
NS 6144
MS 6124
Engineering Drawing II
Automotive Technology II
Workshop Practice II
Fundamentals of Electronics
Entrepreneurship
Analogy Electronics
Computer Programming I
Applied Physics II
Applied Mathematics II

9

9

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6

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6

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6

6

TOTAL 65

B. Diploma in Mechatronics Engineering (2nd Year)

Semester I

Code Name Credit

ME 6202

ME 6205

ME 6224

EE 6273

ME 6201

ME 6203

CS 6225

MS 6222

ME 6208

Strength of Materials

Thermodynamics

Engineering Measurement and instrumentation

Digital electronics

Computer Aided Design I

Automotive Technology III

Computer Programming II
Applied Mathematics III
Industrial Practical Training I

6

6

6

7

8

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TOTAL 65

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83

Semester II

Code Name Credit

ME 6212

ME 6213

ME 6215

ME 6216

ME 6210

ME 6209

ME 6217

EE 6274

EE 6275

MS 6263

Machine elements and design I

Fluid mechanics

Programmable Logical Controller I

Electro-Pneumatic

Auto Electrical System

Computer Aided Design II

Transducers and Actuator Technology

Electrical Circuit Analysis

Industrial Electronics

Applied Mathematics IV

6

6

7

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6

6

6

6

TOTAL 66

C. Diploma in Mechatronics Engineering (3rd Year)

Semester 1

Code Name Credit

ME 6304

ME 6306

ME 6319

ME 6303

ME 6320

MS 6322

ME 6321

ME 6322

ME 6308

Environmental Management

Fundamental of Research Methodology

Electro-Hydraulic Systems

Refrigeration

Automation and Robotics Technology

Boolean Algebra and Statistics

Programmable Logical Controller II

Mechatronics Project I

Industrial Practical Training II

6

6

6

9

6

6

6

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10

TOTAL 65

Semester II

Code Name Credit

ME 6316

EE 6370

ME 6312

EE 6371

ME 6311

ME 6313

ME 6323

ME 6324
ME 6325
Quality Control and Costing Management
Power Electronics and Electrical Drives
Computer Based Manufacturing
Electrical Machines
Air Conditioning
Workshop Management
Maintenance of Mechatronics Systems
Control Systems
Mechatronics Project II

7

7

9

6

9

6

6

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10

TOTAL 66

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DIPOMA IN AUTOMOTIVE AND AUTOELECTRICAL ENGINEERING

A. Diploma in Automotive and Auto electrical Engineering (1st Year)

Semester I

Code Name Credit

ME 6116

ME 6117

ME 6118

ME 6119

IT 6117

HS 6116

HS 6117

NS 6139

MS 6123

Engineering Drawing I

Engineering Materials I

Automotive Technology I

Manufacturing Engineering I

Fundamental Computer Application

Elements of Development Studies

Communication Skills I

Applied Physics I

Applied Mathematics I

8

7

8

9

6

6

6

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6

TOTAL 62

Semester II

Code Name Credit

ME 6120

ME 6121

ME 6122

ME 6129

ME 6124

CS 6124

BM 6122

NS 6144

MS 6124

Engineering Drawing II

Engineering Materials II

Automotive Technology II

Workshop Practice

Mechanical Engineering Science I

Computer programming

Entrepreneurship

Applied Physics II

Applied Mathematics II

9

7

9

9

6

6

6

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6

TOTAL 64

B. Diploma in Automotive and Auto electrical Engineering (2nd Year)

Semester I

Code Name Credit

ME 6201
ME 6202
ME 6206
ME 6203
ME 6218
ME 6205
ME 6207
MS 6222
ME 6208
Computer Aided Drafting I
Strength of Materials
Mechanical Engineering Science II
Automotive Technology III
Welding Technology
Thermodynamics
Engineering Measurement and Control
Applied Mathematics III
Industrial Practical Training 1

8

6

6

9

9

6

6

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TOTAL 66

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85

Semester II

Code Name Credit

ME 6209

ME 6210

ME 6212

ME 6213

ME 6219

ME 6214

EE 6270

EE 6271

MS 6223

Computer Aided Drafting II I

Auto Electrical Systems

Machine Elements and Design I

Fluid Mechanics
Engine management
Fundamentals of Programmable Logical Controllers
Electrical Engineering Science
Basic Electronics
Applied Mathematics IV

9

9

6

6

9

7

6

6

6

TOTAL 64

C. Diploma in Automotive and Auto electrical Engineering (3rd Year)

Semester I

Code Name Credit

ME 6301

ME 6336

ME 6337

ME 6345

ME 6338

ME 6306

MS 6322

ME 6339

ME 6208

Machine Elements and Design II

Automotive Auxiliary Systems

Automotive Body Works

Automotive Environmental Management

Vehicle Inspection and Maintenance

Fundamentals of Research Methodology

Boolean Algebra and Statistics

Automotive Project I

Industrial Practical Training II

6

7

8

6

7

6

6

10

10

TOTAL 66

Semester II

Code Name Credit

ME 6309

ME 6340

ME 6341

ME 6342

ME 6343

ME 6313

ME 6314

ME 6315

MS 6344

Machine Elements and Design III

Road Transport Operations

Heavy Duty Vehicles

Auto-electrical Systems Diagnosis

Automotive Heating Ventilation and Air Conditioning Systems

Workshop Management

Industrial Safety and Maintenance

Hydraulic and Pneumatic systems

Automotive Project II

6

6

7

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7

6

6

7

10

TOTAL 63

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BACHELOR OF MECHANICAL ENGINEERING

A. Bachelor of Mechanical Engineering (1st Year)

Semester 1

Code Name Credits

ME8101 Engineering Drawing I 7

ME8102 Engineering Materials 6

ME 8103 Strength of Materials I 6

ME8104 Manufacturing Engineering I 8

ME 8105 Automotive Engineering I 8

BM 8108 Entrepreneurship 6
IT 8116 Computer Applications 7
MS 8117 Engineering Mathematics I 6
HS 8101 Communication Skills 6
DS 8101 Development Studies 6
TOTAL 66

Semester II

Code Name Credits

ME8107 Engineering Drawing II 9
ME8108 Machine Elements and Design I 6
ME8109 Manufacturing Engineering II 10
ME8110 Strength of Materials II 6
ME 8111 Automotive Engineering II 10
ME 8112 Power Production 6
DS 8108 Development Perspectives 6
ME 8106 Environmental Engineering 6
MS 8102 Engineering Mathematics II 6
TOTAL 65

B. Bachelor of Mechanical Engineering (2nd Year)

Semester 1

Code Name Credits

ME8201 Computer Aided Drafting I 9
ME8202 Mechanics of Machines 6
ME8203 Engineering Thermodynamics 7
ME8204 Machine Elements and Design II 6
ME 8209 Strength of Materials III 6
ME8205 Manufacturing Engineering III 10
EE 8240 Fundamental of Electrical Engineering 6
MS8203 Engineering Mathematics III 6
ME8206 Industrial Practical Training I 10
TOTAL 66

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Semester II

Code Name Credits

ME 8207 Computer Aided Drafting II 9
ME 8208 Machine Elements and Design III 6
ME 8210 Materials Technology 7
ME 8211 Fluid Mechanics 6
ME 8212 Mechatronics 6
ME 8213 Industrial Management 6
EE 8241 Electrical Machines I 7
CS 8200 Computer Programming 7
IT 8217 Computer Networking 6

MS 8217 Statistics and Numerical analysis 6

TOTAL 66

C. Bachelor of Mechanical Engineering (3rd Year)

Semester I

Code Name Credits

ME 8301 Systems Reliability and Plant Maintenance 6

ME 8302 Dynamics of Mechanical Structures 6

ME 8303 Engineering Design 6

ME 8304 Industrial Energy Management 6

ME 8305 Metal cutting and Machines Processes 8

ME 8306 Research Methodology 7

EE 8340 Electrical Machines II 7

ME 8307 Mini Project I 10

ME 8308 Industrial Practical Training II 10

TOTAL 66

Semester II

Code Name Credits

ME 8309 Renewable Energy Technologies 6

ME 8310 Industrial Automation 7

ME 8311 Engineering Economics 8

ME 8312 Control Systems Engineering 6

ME 8313 Computer Aided Engineering (CAE) 8

ME 8314 Engineering Operations Management 6

ME 8315 Heat Transfer 6

CS 8315 Data Structure and Algorithms 6

ME 8316 Mini Project II 10

TOTAL 63

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88

D. Bachelor of Mechanical Engineering (4th Year)

Semester 1

Code Name Credits

ME 8401 Fluid Power and Control 6

ME 8402 Power Plants 6

ME 8403 Material Handling Design 6

ME 8404 Turbo Machinery 6

ME 8405 Production Engineering 7

ME 8406 Refrigeration System 8

CS 8406 Object Oriented Programming 7

ME 8407 Senior Project I 10

ME 8408 Industrial Practical Training III 10

TOTAL 66

Semester II

Code Name Credits

ME 8409 Quality Assurance and Control 6
ME 8410 Engineering Ethics and Professional Conduct 6
ME 8411 Automation and Robotics 7
ME 8412 Engine Design Technology 6
ME 8413 Foundry Technology 9
ME 8414 Air Conditioning System 8
ME 8415 Computer Aided Manufacturing (CAM) 7
ME 8416 Industrial Supervisor Skill and leadership 6
ME 8417 Senior Project II 10

TOTAL 65

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8.1.5 DEPARTMENT OF CHEMICAL PROCESSING AND ENVIRONMENTAL ENGINEERING Programme

The Department is in the process of offering Bachelor degree programmes.

8.1.5.1 LIST OF STAFF

(Head of Department)

Lecturers:

Mr. Omari Shegwando* MSc. Water Resources Management (ARU), BSc. Civil Eng.
(UDSM)

Mr. Emmanuel Mwangomo MSc Renewable Energy. Eng (UDSM), BSc Energy Eng.,
(UDSM), Dipl Ed.

(Kleruu)

Instructor

Dr. Dickson P. Ndalila PhD in Oil-Gas, Storage and Transportation Eng, Chuna
University of Petroleum

(EAST CHINA), MSc. Energy Eng. (UDSM), BSc. Chemical Proc. Eng.
(UDSM).

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8.2 COLLEGE OF ARCHITECTURE AND CONSTRUCTION TECHNOLOGY (CoACT)

8.2.1 DEPARTMENT OF ARCHITECTURE AND ART DESIGN

Programmes

The department offers three (3) programmes:

- i. Diploma in Architecture
- ii. Bachelor of Technology in Architecture
- iii. Bachelor of Technology in Landscape Architecture

8.2.1.1 LIST OF STAFF

(Head of Department)

Justine M. Katabaro M. Eng. In Arch. (Chong Qing University. – China), B. Arch. (Tianjin
University. – China),

Lecturers

Dr. Buberwa M. Tibesigwa PhD Eng. In Architecture (Chongqing University, China),
M.Arch. (HIT

China), B. Arch (University of Dar es Salaam)

Assistant lecturers

Mr. Kassim A. Choga M. Arch. (Ardhi Univ.), PGD Arch (Ardhi Univ.) AD Arch.
(ArdhiInst).

Mr. Emmanuel J. Liombo, M.Arch. (Univ. of Nairobi – Kenya), B.Arch. (UDSM).

Mr. Israel J. Mayage Msc. Housing (ARU), B. Arch (UDSM)

*Mr. Mbasa Segelela Msc. Housing (ARU), B. Arch (UDSM)

Mr. Justine Katabaro M. Eng. In Arch. (Chong Qing Univ. – China), B. Arch. (Tianjin
Univ. –

China)

*Rosemary E. Kavishe MSc. Hydrology and Water Resources Engineering (Nelson
Mandela

African Institute of Science and Technology, BSc. Civil (ST. JOSEPH
UNIVERSITY),

Mr. Oscar J. Shiganza MSc. Civil Engineering (MUST), BSc. Civil (ST. JOSEPH
UNIVERSITY)

Mr. Juma N. Julius MBA in Marketing (UoI), B. Arch (UDSM), Dip. Ed (KLERRUU)

*Mr. Benjamin M. John MSc. Housing (Ardhi University), B. Arch (UDSM)

*Mr. Arnold K. Kashula - MSc. Housing (Ardhi University), B. Arch (UDSM)

*Mr. Benson V. Karumuna M. Eng. Arch. (Chongqing University), B. Arch (ARU)

*Mr. Kamugisha J. Kajumulo MSc. Construction Management (UDSM), B. Arch (UDSM)

Mr. Shija P. Ng'wandu MSc. Eng. In Architecture (Chongqing University), B. Tech-Arch
(MUST)

Mr. Ibrahim M. Charles B. Arch (UDSM), MSc. Construction Management (ARU)

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Mr. Blasius K. Venance M. Arch in Urban Design (Jadavpur University, India) B. Tech-
Arch

(MUST), Dip. Arch (MIST)

Nelson Boniphace Maseswa M. Eng. Civil Eng. (Hohai University, China), B.Tech-Arch
(MUST),

Tutorial Assistants

*Mr. Lameck G. Mollel B. Arch. (ARU)

*Mr. Gasper Massawe B. Tech. Arch. (MIST), Dipl. Arch. (MIST).

Mr. Marco D. Nassary B. Tech-Arch (MIST)

*Mr. Moses L. Kivuyo B. Tech-Arch (MUST), Dip. Arch (MIST)

*Mr. Godfrey B. Sosthenes B. Tech-Arch (MUST), Dip. Civil (MIST)

Ms. Emmayana Calist Auguli BSc. In Landscape Architecture

Mr. Samwel Gidion Mnazi BSc. In Landscape Architecture

Ms. Jaqualine Tarimo B.Tech-Arch (MUST), Dip. In Architecture

*Mr. Yakobo Rehani B.Tech-Arch (MUST), FTC-Arch. Engineering (MTC)

Instructors

Mr. Gabriel N. Nicomedi MS. Eng. In Landscape Architecture Engineering (Chongqing University,

China), BSc. Landscape Arch (ARU)

*Mr. Elvis F. Lyimo BSc. Landscape Arch (ARU)

Mr. Jonas.E. Mwamasage BTA (MUST), Dip-Arch (MUST)

Technicians

Mr. Christopher J. Almasi FTC-Arch (MTC)

*On study leave

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8.2.1.2 DIPLOMA COURSES

DIPLOMA IN ARCHITECTURE

A. Diploma in Architecture (1st Year)

Semester I

Core Courses

Code Name Credit

AA 6101

AA 6102

AA 6103

AA 6105

AA 6106

HS 6116

MS 6126

CS 6102

HS 6117

NS 6138

Architectural Draughting I

Structural Mechanics

Building Construction &Technology I

Building Services I

Building Materials I

Elements of Development studies

Advanced Mathematics I

Basic Computer Application I

Communication Skills

Advanced Physics I

12

6

6

6

6

10

6

6

6

6

TOTAL 64

Semester II

Core Courses

Code Name Credit

AA 6107

AA 6108

AA 6109

AA 6110

AA 6104

MS 6221

CS 6202

NS 6143

AA 6111

Architectural Draughting II

Basics of Structural Design I

Building Construction and Technology II

History & Theory of Architecture I

AutoCAD

Advanced Mathematics II

Basic Computer Application II

Advanced Physics II

IPT I

12

6

6

8

6

6

6

6

10

TOTAL 66

B. Diploma in Architecture (2nd Year)

Semester I

Core Courses

Code Name Credits

AA 6201

AA 6202

AA 6203

AA 6204

AA 6205

AA 6206

AA 6207
ST 6223
Architectural Design I
Basics of Structural Design II
Building construction & Technology III
Building Services II
Geometrics I
Building Materials II
ArchiCAD
Advanced Mathematics III

12

8

8

6

6

6

6

6

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NS 6222 Advanced Physics III 6

TOTAL 64

Semester II

Fundamental Courses

Code Name Credits

AA 6208

AA 6209

AA 6210

AA 6211

NS 6224

MS 6228

AA 6212

Architectural Design II

Basics of Structural Design III

History & Theory of Architecture II

Geometrics II

Advanced Physics IV

Advanced Mathematics IV

IPT II

14

8

8

8

6

6

10

TOTAL 60

C. Diploma in Architecture (3rd Year)

Semester I

Core Courses

Code Name Credits

AA 6301

AA 6302

AA 6303

AA 6304

AA 6305

AA 6306

AA 6307

BM 6122

Basics of Structural Design III

Building Construction & Technology IV

Cost Estimates &Tendering

Project I

Professional Practice I

Climatic Design

Building services III

Entrepreneurship

8

8

8

12

6

8

8

8

TOTAL 66

Semester II

Fundamental Courses

Code Name Credits

AA 6308

AA 6309

AA 6310

AA 6311

AA 6312

AA 6313

Project II

Thermal Design & Sonic Environment

Professional Practice II

Architectural Conservation
Building Information Modelling
Urban & Housing Development

14

10

8

10

10

8

TOTAL 60

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BACHELOR OF TECHNOLOGY IN ARCHITECTURE

A. Bachelor of Technology in Architecture (1st Year)

Semester 1

Code Name Credits

HS 8101 Communication Skills 6

BM 8108 Development Studies 6

MS 8125 Calculus, Statistics and Coordinate geometry 6

BM 8108 Entrepreneurship 6

AA 8101 Architectural Draughting I 10

AA 8102 Building Construction I 6

AA 8103 Basics of Architectural Design 6

AA 8104 History of Architecture I 6

AA 8105 Building Materials I 6

AA 8106 Mini- Industrial Practical Training I 2

TOTAL 60

Semester II

Code Name Credits

DS 8108 Development perspective 6

CS8107 Computer Application 6

AA 8107 Structural Mechanics 6

AA 8108 Architectural Draughting II 8

AA 8109 Building Construction II 8

AA 8110 Principles of Architectural Design 6

AA 8111 History of Architecture II 6

AA 8112 Building material II 6

AA 8113 Construction Surveying 6

AA 8114 Industrial Practical Training (IPT) 10

TOTAL 68

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B. Bachelor of Technology in Architecture (2nd Year)

Semester I

Core Courses

Code Name Credits

AA 8201

AA 8202

AA 8203

AA 8204

AA 8205

AA 8206

AA 8207

AA 8208

AA 8209

Design Studio I

Building construction and technology I

Material Science

Design Theories I

History of Architecture III

Services and Installations I

Building Structures I

Urban Design

Mini- Industrial Practical Training II

12

8

6

8

6

6

6

6

2

TOTAL 60

Semester II

Core Courses

Code Name Credits

AA 8210

AA 8211

AA 8212

AA 8213

AA 8214

AA 8215

AA 8216

AA 8217

AA 8218

Design Studio II

Building Construction and Technology II

Product Manufacture Technology I
Design Theories II
Building Renovation and Maintenance I
Services and Installation II
Building Structures II
Advanced CAD
Industrial Practical Training (IPT) II

10

6

6

6

6

6

6

6

10

TOTAL 62

C. Bachelor of Technology in Architecture (3rd Year)

Semester I

Core Courses

Code Name Credits

AA 8301

AA 8302

AA 8303

AA 8304

AA 8305

AA 8306

AA 8307

AA 8308

AA 8309

Project I

Professional Practice and Management I

Building Construction and Technology III

Simulation Technology I

Product Manufacture Technology II

Alternative Energy Design

Environmental control and sustainability I

Building Renovation and Maintenance II

Mini- Industrial Practical Training III

12

6

8

8

6

6

6

6

2

TOTAL 60

Semester II

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96

Core Courses

Code Name Credits

AA 8310

AA 8311

AA 8312

AA 8313

AA 8314

AA 8315

AA 8316

AA 8317

AA 8318

Project II

Construction Economics I

Professional Practice and Management II

Structural Analysis and Design I

Product Manufacture Technology III

Simulation technology II

Research Methods

Environmental control and sustainability II

Industrial Practical Training (IPT) III

10

6

6

6

6

6

6

6

10

Elective courses

AA 8319

AA 8320

AA 8321

Landscape technology

Conservation technology

Interior design

6

TOTAL 68

D. Bachelor of Technology in Architecture (4th Year)

Semester I

Core Courses

Code Name Credits

AA 8401

AA 8402

AA 8403

AA 8404

AA 8405

Pre-Design Research

Structural Analysis and Design II

Disaster Management

Services and Installations III

Professional Practice and Management III

28

8

8

8

8

TOTAL 60

Semester II

Core Courses

Code Name Credits

AA 8407 Comprehensive Design Project 60

TOTAL 60

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BACHELOR OF TECHNOLOGY IN LANDSCAPE ARCHITECTURE

A. Bachelor of Technology in Landscape Architecture (1st Year 1)

Semester 1

Code Name Credits

HS 8101 Communication Skills 9

BM 8108 Development Studies 6

MS 8125 Calculus, Statistics and Coordinate geometry 6

CS 884 Entrepreneurship 6

AA 8120 History of landscape Architecture I 6

AA8121 Landscape architectural draughting and Graphics I 15

AA8122 Landscape Materials I 6

AA8123 Landscape Construction I 8

AA8124 Mini Industrial Practical training I 2

TOTAL 64

Semester II

Code Name Credits

DS 8108 Development Perspective 6

AA 8125 Landscape construction surveying 8

AA 8126 Basics of Landscape Architectural Design 6

AA 8127 History of landscape Architecture II 6

AA 8128 Landscape Structural Design 6

AA 8129 Landscape Materials II 6

AA 8130 Landscape Architectural Draughting and Graphics II 12

AA 8131 Landscape Construction1I 8

AA 8132 Industrial Training, I 10

TOTAL 68

B. Bachelor of Technology in Landscape Architecture (2nd Year)

Semester I

Core Courses

Code Name Credits

AA 8220

AA 8221

AA 8222

AA 8223

AA 8224

AA 8225

AA 8226

AA 8227

AA 8228

Landscape Studio Design I

Landscape Construction III

History of Landscape Architecture

Landscape Materials III

Environmental Science

Botany and Plant Ecology, I

Lighting Design I

Sustainable Urban Landscape Infrastructure

Mini Industrial Practical Training II

12

8

6

8

6

6

6

6

2

TOTAL 60

Semester II

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Core Courses

Code Name Credits

AA8229

AA 8230

AA 8231

AA8232

AA 8233

AA8234

AA8235

AA8236

AA8237

Landscape Studio Design II

Landscape Construction IV

History and Theory of Landscape Architecture. I

Lighting Design II

Settlement Planning

Botany and Plant Ecology II

Landscape Services and Installations

Introduction to Planting Design

Industrial Training II

12

8

6

6

6

6

6

6

10

TOTAL 66

C. Bachelor of Technology in Landscape Architecture (3rd Year)

Semester I

Core Courses

Code Name Credits

AA 8320

AA 8321

AA 8322

AA8323

AA8324

AA 8325

AA8326

AA 8327

AA 8328
Landscape Studio Design III
Planting Design I
Contemporary Landscape Architecture
Principles of Landscape Architectural Design I
Simulation and Visualization Technology
History and Theory of Landscape Architecture. II
Urban Landscape Design
Housing and Settlement Planning.
Mini Industrial Practical Training III

12

8

6

8

8

6

6

6

2

TOTAL 62

Semester II

Core Courses

Code Name Credits

AA 8329

AA 8330

AA 8331

AA 8332

AA 8333

AA 8334

AA 8335

AA 8336

AA 8337

Landscape Studio Design IV

Planting Design II

Site Grading

Principles of Landscape Architectural Design II

Landscape Conservation and Management, I

Landscape Professional Practice and Management I

Landscape Construction Economics

Research Methodology

Industrial Training III

12

6

8

8

6

6

6

6

10

TOTAL 68

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99

D. Bachelor of Technology in Landscape Architecture (4th Year)

Semester I

Core Courses

Code Name Credits

AA8410

AA8411

AA 8412

AA 8413

Pre-design Research

Disaster Management

Landscape Conservation and Management II

Landscape Professional Practice and Management II

46

6

6

6

TOTAL 64

Semester II

Core Courses

Code Name Credits

AA8414 Comprehensive Design Project 60

TOTAL 60

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8.2.2 DEPARTMENT OF CONSTRUCTION MANAGEMENT AND TECHNOLOGY(CMT)

Programmes

The department is currently preparing the curricula for offering Diploma, Bachelor and Master's degree programmes.

8.2.2.1 LIST OF STAFF

(Head of Department)

Dr. Ramadhani S. Tekka PhD in Management Science and Engineering (Chongqing University), MEM (UDSM), BSc. in Geomatics (UDSM)

Senior Lecturers

Dr. Ramadhani S. Tekka PhD in Management Science and Engineering (Chongqing University), MEM (UDSM), BSc. in Geomatics (UDSM)

Dr. Yazidi H. Mwishwa, PhD (UDSM), MEM (UDSM), PGD (UDSM), ADE Civil Eng. (DIT), FTC Civil Eng. (TCA)

Lecturers

Dr. Juma A. Mpangule PhD in Civil Engineering and Construction Management (Technical University Dortmund, Germany), MSc. Const. mgt (ARU), BSc (BE) – UDSM

Mr. Japhary Shengeza* MSc. Construction Economics & Management (Ardhi University), Bsc, Building Economics (UDSM)

Assistant Lecturers

Mr. Moses Moyo* MSc. Mat. Sc. & Eng. Nelson Mandela (NMAIST), B. Sc. Civil (UDSM)

Mr. Baraka N. Budogo Msc. Urban Planning Management (Ardhi University), Bachelor Degree in Urban Development and Environmental Management - DUDEM (IRDP)

Mr. David A. Mwipopo Msc. Urban Planning Management (Ardhi University), BSc. Urban and Regional Planning URP (Ardhi University).

Mr. Evidence Machenje Msc. in Natural Resource Assessment and Management (University of Dar es Salaam), BSc. Urban and Regional Planning URP (Ardhi University).

Mr. Mwakiwone Philemon Master of Engineering in Urban and Rural Planning (Beijing Jiao Tong University), BSc. In Urban and Regional Planning (University of Dar es Salaam).

Tutorial Assistants

Mr. Hubert Bazil Kimboi* BSc. Building Economics (Ardhi University)

Mr. Melchior Vitalis Shukuru* BSc. in Geoinformatics (Ardhi University)

Ms. Adelina Kalinga * BSc. Building Economics (Ardhi University)

Ms. Edna William Machumu* BSc. in Geomatics (Ardhi University)

Mr. Hokins E. Moshi BSc. Civil Engineering (MUST), Ordinary Diploma in Civil Engineering (MUST)

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Mr. Elius P. Tibesigwa BSc. Building Economics (Ardhi University)

Mr. Aboubakary S. Kimiro BSc. Urban and Regional Planning-URP (Ardhi University)

*On study leave

**Secondment

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8.3 COLLEGE OF INFORMATION AND COMMUNICATION TECHNOLOGY (CoICT)

8.3.1 DEPARTMENT OF INFORMATION SYSTEMS AND TECHNOLOGY

Programmes

The Department offers two (2) Programme:

i. Diploma in Information and Communication Technology

ii. Bachelor of Science in Information and Communication Technology

8.3.1.1 LABORATORIES AND WORKSHOPS

- i. Computer Maintenance and Repair Laboratory
- ii. Two Computer Software Application Laboratories

8.3.1.2 LIST OF STAFF

Head of Department

Dr. Stanley Leonard PhD in Information Science and Engineering (MUST), MSc in Telecom

Eng. (UDOM), BEng (DIT), FTC (Comp. Eng) (DIT)

Lecturers

Dr. Twahir R. Kazema PhD in Information and Communication Science Engineering (Electronics

and Telecommunication)-NMAIST, MSc-in in Information and Communication Science Engineering-NMAIST, BEng in Electronics and Communication-St. Joseph University Tanzania.

Dr. Nabahani B. Hamadi PhD in Computer Science (BJUT - China), MSc. Automated systems

software (KHNURE-Ukraine), BSc. Computer science (KHNURE - Ukraine)

Dr. Phesto P. Namayala PhD in Computer Science (UDOM), MSc. in Comp (HU, UK), BSc with

Comp (UDSM)

Mr. Francis Ruambo* MSc. (HU, Sweden), BSc (SPSU, RUSSIA)

Assistant Lecturers

Mr. Justin A. Mwakatobe* MSc. (PWR, Poland)

Mr. Peter L. Kambosha MSc in IT and MGT (AVINASHILLINGAM, INDIA), BSc. Computer Science & Engg (SJUIT)

Ms. Magreth Dunstan Giga* MSc-Computer Science-University of Madras, BSc. in Computer Science

(St. Joseph University-Tanzania)

Mr. Tumain Mbinda MSc in Cybersecurity-National Forensic Science University (INDIA),

BSc. Computer Science (St. Joseph)

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Mr. Award Magemo MSc in Information Technology (MUST), BSc. Computer Science & Eng.

(St. Joseph University-Tanzania)

Tutorial Assistant

Mr. Edwin P. Nchia Advanced Diploma (IFM)

Mr. Daniel I. Bynite FTC (TCA); B. Eng.& Tech (DSTU) Russian Federation

Ms. Beatrice Mayowela* BSc. Computer Science & Eng (St. Joseph University-Tanzania)

*On study leave

8.3.1.3 PROGRAMME COURSES

DIPLOMA IN INFORMATION AND COMMUNICATION TECHNOLOGY

A. Diploma in Information and Communication Technology (1st Year)

Semester 1

Code Name Credits (Hrs)

MIS 6125 Business Mathematics 6

HS 6117 Communication Skills 6

Core Courses

Code Name Credits (Hrs)

IT 6116 Programming concept 9

CS 6117 Computer Systems Maintenance and Repair 9

IT 6117 Fundamental of ICT 6

IT 6118 Computer Networks 9

IT 6119 Basic Electronics 6

IT 6120 Multimedia Technologies 9

TOTAL 60

Semester II

Fundamental Courses

Code Name Credits (Hrs)

MIS 6126 Advanced Business Mathematics 6

BM 6122 Entrepreneurship 10

BM 6117 Basics of Management Principles 6

Core Courses

Code Name Credits (Hrs)

IT 6121 Introduction to Operating System 6

IT 6125 Computerized Accounting 6

IT 6122 Management Information Systems 6

IT 6123 Computer Networks Design and Management 10

IT 6124 Introduction to Database 10

TOTAL 60

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B. Diploma in Information and Communication Technology (2nd Year)

Semester 1

Semester II

C.

Diploma in Information and Communication Technology (3rdYear)

Semester 1

Core Courses

Code Name Credits (Hrs)

IT 6218 Introduction to Software Engineering 6

IT 6220 Data Structure and File Handling 9

IT 6221 Object-Oriented Programming JAVA 9

IT 6222 Multimedia Application Production 9

IT 6223 Microprocessor Technologies 6

IT 6224 E-commerce 6

IT 6225 Computer Architecture 6

IT 6219 Web Application Development 9

TOTAL 60

Core Courses

Code Name Credits (Hrs)

IT 6226 Business start-up and Management 6

IT 6212 Website Design and Hosting 9

IT 6213 Digital Electronics 6

IT 6214 Object Oriented Programming C++ 9

IT 6215 Management of Technology and Innovation 6

IT 6216 Systems Analysis and Design 6

IT 6217 Database Systems Design and Management 9

IT 6211 Industrial Practical Training I 10

TOTAL 61

Code Name Credits (Hrs)

IT 6311 E-marketing 6

IT 6315 Industrial Practical Training II 10

IT 6312 Mobile Application Development 9

IT 6317 Project I 12

IT 6313 IT Project Management 9

IT 6314 Open Source Software Development 9

IT 6316 Cyber Security 9

TOTAL 64

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Semester II

Code Name Credits (Hrs)

IT 6324 Business Management 6

Core Courses

IT 6318 Human Computer Interactions 9

IT 6319 Cloud Computing 9

IT 6320 Artificial Intelligence 9

IT 6321 Project II 12

IT 6322 Mobile Networks and Computing 9

IT 6323 Ethics and Laws of IT 6

TOTAL 60

BACHELOR OF INFORMATION AND COMMUNICATION TECHNOLOGY

A. Bachelor of Information and Communication Technology (1st Year)

Semester 1

Fundamental Courses

Code Name Credit (Hrs)

HS 8101 Communication Skills 6

DS 8101 Development Studies 6

MS 8121 Business Mathematics 6

Core Courses

Code Name Credits (Hrs)

IT 8101 Fundamentals of ICT 9

IT 8102 Management of Information System 9

IT 8103 Multimedia Technologies 9

IT 8104 Programming Concepts 9

CS 8106 Computer Maintenance and Repair 9

TOTAL 63

Semester II

Code Name Credits (Hrs)

IT 8106 Industrial Management 8

IT 8107 Python Programming 6

IT 8108 Database Design and Implementation 8

IT 8109 Professional Practice and IT laws 6

IT 8110 Computer Networks 8

IT 8111 Operating Systems 7

IT 8112 IT Technical Support 6

IT 8113 Object-Orientated Programming 8

IT 8114 Industrial Practical Training (IPT) I 10

TOTAL 67

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B. Bachelor of Information and Communication Technology (2nd Year)

Semester 1

Fundamental Courses

Code Name Credit (Hrs)

IT 8214 Financial Management 6

Core Courses

Code Name Credits (Hrs)

IT 8201 Computer System Administration and Network Management 9

IT 8202 Problem Solving 8

IT 8203 Mobile Application Development 9

IT 8204 Software Engineering 8

IT 8205 Applied Networks 8

IT 8206 System Analysis and Design 9

IT 8207 Management of Technology and Innovation 6

TOTAL 63

Semester II

Fundamental Courses

Code Name Credit (Hrs)

T 8215 Technical and Business Writing 6

BPP 845 Research Methodology 6

BM 8108 Entrepreneurship 6

Core Courses

Code Name Credit (Hrs)

IT 8208 Human Computer Interaction 8
IT 8209 System Integration and Deployment 8
IT 8210 Data Mining and Warehousing 8
IT 8211 IT Project Management 8
IT 8212 Animation Development 9
IT 8213 Industrial Practical Training (IPT) II 10
TOTAL 69

C. Bachelor of Information and Communication Technology (3rd Year)

Semester 1

Core Courses

Code Name Credits (Hrs)

IT 8301 Cyber Security and Network Management 10
IT 8302 Web Development 10
IT 8303 Open-Source Software Development 10
IT 8304 JAVA Programming 10
IT 8305 Artificial Intelligence 10
IT 8306 Final Year Project 1 12
TOTAL 62

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Semester II

Core Courses

Code Name Credits (Hrs)

IT 8307 Mobile Networks and Computing 10
IT 8308 Cloud Computing 10
IT 8309 E-Commerce 10
IT 8310 Business Intelligence and Analytics 10
IT 8311 Internet of Things (IoT) 10
IT 8312 Final Year Project 2 12
TOTAL 62

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8.3.2 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Programmes

The Department offers five (5) Programmes:

- i. Diploma in Computer Science
- ii. Diploma in Computer Engineering
- iii. Bachelor of Computer Engineering
- iv. Bachelor of Computer Science
- v. Bachelor of Engineering in Data Science

8.3.2.1 LABORATORIES AND WORKSHOPS

- i. Computer Maintenance and Repair Laboratory
- ii. Computer Network laboratory
- iii. Two Computer Software Application Laboratories

8.3.2.2 LIST OF STAFF

(Head of Department)

Dr. Mrindoko R Nicholas Ph.D ICT (OUT), MSc. EEIT (UDSM), B. Eng (DIT), FTC (MIST)

Lecturers

Dr. Mrindoko R Nicholas Ph.D ICT (OUT), MSc. EEIT (UDSM), B. Eng (DIT), FTC (MIST)

Dr. Stanley Leonard Ph.D ISE (MUST), MSc. TE (UDOM), BSc Comp. Eng. (DIT)

Dr. Sadiki L. Kusyama PhD in ICSE (NM-AIST), MSc.ICSE (NM-AIST), B.Eng (DIT)

Assistant Lecturers

Mr. Godfrey Kayombo MSc. TE (UDOM), BSc Comp. Eng. (DIT)

Mr. Aziz Singa MSc (UDOM), BSc Comp. Eng. (SJUIT)

Mr. Bestone Lufyagila MSc (NM-AIST, Tanzania), BSc. Eng (UDSM) *

Mr. Ibrahim Frank M.Eng Comp S.c & Tech (Hubei University of Sc &Tech)

Mr. Bally S. Omary MSc IT (UDOM), B.Eng (DIT), FTC (DIT) *

Ms. Betty J. Singano MSc. Comp Sc (Kerala University), B. Tech IT (St Joseph)

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Tutorial Assistants

Mr. Richard C. Rajabu BSc. (UDSM)*

Mr. Lusungu P. Wangilisasi BSc.Eng (UDSM)*

Ms. Rahel A Mtali B. Eng (MUST) *

Mr. Emmanuel Nimrod Malissa BSc. in Computer Engineering (MUST)

Ms. Namsemba Rabieli Mzava BSc. in Multimedia Technology (UDOM)

Mr. Robert Joseph Mtowe BSc. in Multimedia Technology (UDOM)

Mr. David Mwakifuna BSc. in Multimedia Technology (UDOM)

Senior Instructors

Mr. Noel Y. Chintelele MSc. TE (UDOM), B. Eng (DIT)*

Mr. Pascal J. Yamakil MSc. EEIT (UDSM), Advanced Diploma (IAA) *

Mr. Shadrack D. Njugunya MSc. Comp (UDOM), B. Eng (DIT), FTC (DIT)

Instructors

Mr. Liberatus M. Sago B.Sc. Eng (UDSM) *

Mr. Enlai N. Watson B. Eng (DIT), FTC (DIT)

Mr. Riziki Pangahela BSc IT (OUT)

Technician

Mr. George R. Kitula B.Eng (MUST)

Mr. Anthony L. Chaula Diploma. ICT (MUST)

*On study leave

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8.3.2.3 PROGRAMME COURSES

DIPLOMA IN COMPUTER SCIENCE

A. Diploma in Computer Science (1st year)

Semester I

Code Name Credit

Core Courses

HS 6117

CS 6132

CS 6133

CS 6134

CS 6135

CS 6136

Communication Skills

Elementary Mathematics

Computer Fundamentals

Computer Application

Programming Concept

Basic Electronics

6

10

10

10

12

10

TOTAL 58

Semester II

Core Courses

Code Name Credit

CS 6137

CS 6138

CS 6139

CS 6140

CS 6141

CS 6142

Basics of Computer Maintenance and Troubleshooting

Web application

Computer Networks Fundamentals.

Basics of Mobile Application

Multimedia Technologies

Industrial practical Training