

MBEYA UNIVERSITY OF SCIENCE AND TECHNOLOGY



UNDERGRADUATE PROSPECTUS

2019/2020

TABLE OF CONTENTS

1.0	INTRODUCTION.....	8
1.1	VICE CHANCELLOR’S MESSAGE	8
1.2	HISTORICAL BACKGROUND	8
1.3	LOCATION	8
1.4	VISION, MISSION AND OBJECTIVES OF THE UNIVERSITY	8
1.4.1	VISION	8
1.4.2	MISSION.....	8
1.4.3	UNIVERSITY OBJECTIVES	9
1.5	ACCREDITATION.....	9
1.6	MEMBERSHIP	9
1.7	SENIOR OFFICERS OF THE UNIVERSITY	10
1.8	MEMBERS OF THE COUNCIL.....	10
1.9	EXECUTIVE OFFICERS OF THE UNIVERSITY	11
1.10	ACADEMIC ORGANS	13
1.10.1	DEPARTMENTS UNDER THE COLLEGE OF ENGINEERING AND TECHNOLOGY (CET)	13
1.10.2	DEPARTMENT UNDER THE COLLEGE OF ARCHITECTURE AND CONSTRUCTION TECHNOLOGY (CoACT).....	13
1.10.3	DEPARTMENT UNDER THE COLLEGE OF INFORMATION AND COMMUNICATION TECHNOLOGY (CoICT).....	13
1.10.4	DEPARTMENTS UNDER THE COLLEGE OF SCIENCE AND TECHNICAL EDUCATION (CoSTE)	13
1.10.5	DEPARTMENTS UNDER THE COLLEGE OF HUMANITIES AND BUSINESS STUDIES (CoHBS)	14
1.10.6	DEPARTMENTS UNDER THE MUST RUKWA CAMPUS COLLEGE (MRCC)	14
1.10.7	DEPARTMENTS UNDER THE COLLEGE OF AGRICULTURAL SCIENCE AND TECHNOLOGY (CoAST) 14	
1.10.8	DEPARTMENTS UNDER THE COLLEGE OF HEALTH SCIENCES AND TECHNOLOGY (CoHST)	14
1.11	CONTACT ADDRESSES AND TELEPHONE NUMBERS.....	14
1.12	QUALITY ASSURANCE AND QUALITY CONTROL	18
1.13	INSTITUTIONAL COLLABORATION	18
1.14	STUDENTS SERVICES.....	18
1.14.1	MEDICAL SERVICES.....	18
1.14.2	STUDENTS WELFARE.....	19
1.14.3	RESIDENCE.....	19
1.14.4	MBEYA UNIVERSITY OF SCIENCE AND TECHNOLOGY STUDENT ORGANIZATION (MUSTSO)	19
1.14.5	GAMES AND SPORTS.....	19

1.14.6	CATERING SERVICES	20
1.14.7	RELIGIOUS ACTIVITIES	20
1.14.8	BANKING SERVICES.....	20
1.14.9	UNIVERSITY LIBRARY	20
2.0	UNIVERSITY DIPLOMA AND DEGREE AWARDS.....	20
2.1	DIPLOMA AND DEGREES OFFERED BY THE COLLEGE OF ENGINEERING AND TECHNOLOGY (CET)	20
2.2	DIPLOMA AND DEGREE PROGRAMMES OFFERED BY THE COLLEGE OF ARCHITECTURE AND CONSTRUCTION TECHNOLOGY (CoACT)	21
2.3	DIPLOMA AND DEGREE PROGRAMMES OFFERED BY THE COLLEGE OF INFORMATION AND COMMUNICATION TECHNOLOGY (CoICT)	21
2.4	DIPLOMA AND DEGREE PROGRAMMES OFFERED BY THE COLLEGE OF SCIENCE AND TECHNICAL EDUCATION (CoSTE)	21
2.5	DIPLOMA AND DEGREE PROGRAMMES OFFERED BY THE COLLEGE OF HUMANITIES AND BUSINESS STUDIES (CoHBS).....	21
2.6	DIPLOMA AND DEGREE PROGRAMMES OFFERED BY MUST RUKWA CAMPUS COLLEGE (MRCC)	22
3.0	ACTIVITIES UNDER THE CENTRE FOR VIRTUAL LEARNING AND CONTINUING EDUCATION....	22
4.0	GRADUATION AWARDS FOR STUDENTS	22
4.1	DIPLOMA PROGRAMMES.....	22
4.2	UNDERGRADUATE PROGRAMMES	22
4.3	DEPARTMENTAL PRIZES	22
4.4	OTHER PRIZES	22
5.0	FEES AND BURSARIES	23
5.1	FEE STRUCTURE FOR ORDINARY DIPLOMA.....	23
5.1.1	GOVERNMENT SPONSORED STUDENTS	23
5.1.2	PRIVATE SPONSORED STUDENTS	23
5.2	FEES STRUCTURE FOR BACHELOR PROGRAMME FULL-TIME STUDENTS	26
5.2.1	COSTS PAYABLE TO THE UNIVERSITY BY BACHELOR OF ENGINEERING, SCIENCE AND ARCHITECTURE STUDENTS (3 YEARS PROGRAMMES)	26
5.2.2	COSTS PAYABLE TO THE UNIVERSITY BY BACHELOR OF ENGINEERING, SCIENCES AND ARCHITECTURE STUDENTS (4YEARS PROGRAMMES)	27
5.2.3	COSTS PAYABLE DIRECTLY TO THE STUDENTS BY SPONSORS	28
5.3	INSTALLMENTS PAYABLE	30
6.0	GENERAL ADMISSION REQUIREMENTS.....	30

6.1	GENERAL PROVISIONS	30
6.2	APPLICATION FEES	31
6.3	PAYMENT OF FEES	31
6.4	GUARANTEE OF SPONSORSHIP	31
6.5	MBEYA UNIVERSITY OF SCIENCE AND TECHNOLOGY ACADEMIC YEAR	31
6.6	REGISTRATION DEADLINE	31
6.7	CHANGE OF COURSES.....	31
6.8	STUDENTS' NAMES	32
6.9	POSTPONEMENT OF STUDIES	32
6.10	ADMISSION REQUIREMENTS FOR DIPLOMA PROGRAMMES	32
6.10.1	ENTRY REQUIREMENTS	32
6.10.2	DIRECT ENTRY REQUIREMENTS.....	32
6.10.3	ADMISSION REQUIREMENTS FOR BACHELOR DEGREE PROGRAMMES	34
6.10.4	ENTRY QUALIFICATIONS FOR BACHELOR PROGRAMMES FOR THE CANDIDATES WITH FOUNDATION (BRIDGING) COURSE QUALIFICATIONS FOR THE ACADEMIC YEAR 2019/2020	38
7.0	UNIVERSITY GENERAL REGULATIONS.....	40
8.0	COURSES OFFERED IN VARIOUS PROGRAMMES.....	41
8.1	COLLEGE OF ENGINEERING AND TECHNOLOGY (CET).....	41
8.1.1	DEPARTMENT OF CIVIL ENGINEERING	41
8.1.1.1	LABORATORIES AND WORKSHOPS	41
8.1.1.2	LIST OF STAFF	41
8.1.1.3	PROGRAMME COURSES.....	44
8.1.2	DEPARTMENT OF GEOSCIENCE AND MINING TECHNOLOGY	54
8.1.2.1	LABORATORIES AND WORKSHOPS	54
8.1.2.2	LIST OF STAFF	54
8.1.2.3	PROGRAMME COURSES.....	55
8.1.3	DEPARTMENT OF ELECTRICAL AND POWER ENGINEERING	58
8.1.3.1	LIST OF STAFF	58
8.1.3.2	PROGRAMME COURSES.....	60
8.1.4	THE DEPARTMENT OF MECHANICAL AND INDUSTRIAL ENGINEERING.....	66
8.1.4.1	LABORATORIES AND WORKSHOPS	66
8.1.4.2	LIST OF STAFF	66
8.1.4.3	PROGRAMME COURSES.....	68
8.1.5	DEPARTMENT OF CHEMICAL PROCESSING AND ENVIRONMENTAL ENGINEERING	78
8.1.5.1	LIST OF STAFF	78

8.2	COLLEGE OF ARCHITECTURE AND CONSTRUCTION TECHNOLOGY (CoACT).....	78
8.2.1	DEPARTMENT OF ARCHITECTURE AND ART DESIGN	78
8.2.1.1	LIST OF STAFF	78
8.2.1.2	DIPLOMA COURSES.....	80
8.1.5	DEPARTMENT OF CONSTRUCTION MANAGEMENT AND TECHNOLOGY	87
8.1.5.1	LIST OF STAFF	87
8.3	COLLEGE OF INFORMATION AND COMMUNICATION TECHNOLOGY (CoICT).....	88
8.3.1	DEPARTMENT OF INFORMATION SYSTEMS AND TECHNOLOGY	88
8.3.1.1	LABORATORIES AND WORKSHOPS	88
8.3.1.2	LIST OF STAFF	88
8.3.1.3	PROGRAMME COURSES.....	88
8.3.2	DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING	91
8.3.2.1	LABORATORIES AND WORKSHOPS	91
8.3.2.2	LIST OF STAFF	91
8.3.2.3	COMPUTER SCIENCE.....	92
8.3.3	DEPARTMENT OF ELECTRICAL AND TELECOMMUNICATION ENGINEERING.....	101
8.3.3.1	LABORATORIES AND WORKSHOPS	101
8.3.3.2	LIST OF STAFF	102
8.3.3.3	PROGRAMME COURSES.....	103
8.4	COLLEGE OF SCIENCE AND TECHNICAL EDUCATION (CoSTE).....	106
8.4.1	THE DEPARTMENT OF APPLIED SCIENCE.....	106
8.4.1.1	LABORATORIES	106
8.4.1.2	LIST OF STAFF	106
8.4.1.3	PROGRAMME COURSES.....	108
8.4.2	THE DEPARTMENT OF NATURAL SCIENCES	110
8.4.2.1	LABORATORIES	110
8.4.2.2	LIST OF STAFF	110
8.4.2.3	PROGRAMME COURSES.....	111
8.4.3	THE DEPARTMENT OF MEDICAL SCIENCES AND TECHNOLOGY.....	116
8.4.3.1	LABORATORIES	116
8.4.3.2	LIST OF STAFF	117
8.4.3.3	PROGRAMME COURSES.....	117
8.4.4	DEPARTMENT OF TECHNICAL EDUCATION AND PSYCHOLOGY.....	120
8.4.4.1	LABORATORIES	120
8.4.4.2	LIST OF STAFF	120

8.4.4.3	PROGRAMME COURSES	121
8.5	COLLEGE OF HUMANITIES AND BUSINESS STUDIES (CoHBS)	128
8.5.1	DEPARTMENT OF BUSINESS MANAGEMENT	128
8.5.1.1	LIST OF STAFF	128
8.5.1.2	PROGRAMME COURSES	129
8.6	MUST RUKWA CAMPUS COLLEGE (MRCC).....	137
8.6.1	DEPARTMENT OF MECHANICAL AND INDUSTRIAL ENGINEERING	137
8.6.1.1	LABORATORIES AND WORKSOPS	137
8.6.1.2	LIST OF STAFF	137
8.6.1.3	PROGRAMME COURSES	138
8.6.2	DEPARTMENT OF BUSINESS MANAGEMENT	144
8.6.2.1	LIST OF STAFF	144
8.6.2.2	PROGRAMME COURSES	145
9.0	ACADEMIC RELATED UNITS	152
9.1	RESEARCH AND PUBLICATIONS DIRECTORATE.....	152
9.2	MUST CONSULTANCY BUREAU (MCB)	152
9.3	MUST CONSULTANCY BUREAU (MISTECO)	152
9.4	INDUSTRIAL LIAISON OFFICE (ILO)	153
9.5	UNIVERSITY FACILITIES	153
9.5.1	ASSEMBLY HALL (THE NYERERE HALL).....	153
9.5.2	CAFETERIA	153
9.5.3	SOCIAL CLUB	153
9.5.4	MAMA/BABA LISHE	153
10	UNDERGRADUATE EXAMINATION REGULATIONS	154
10.1	GENERAL EXAMINATION REGULATIONS	154
10.1.1	DEFINITIONS	154
10.1.2	ELIGIBILITY FOR EXAMINATIONS	158
10.2	SPECIFIC EXAMINATION REGULATIONS.....	158
10.2.1	COURSE ASSESSMENT CRITERIA	158
10.2.2	EXAMINATION SETTING, MODERATION AND MARKING	159
10.2.3	CONDUCT OF SEMESTER EXAMINATIONS.....	159
10.2.4	SUPERVISION AND INVIGILATION OF EXAMINATIONS.....	161
10.2.5	ABSENCE FROM EXAMINATIONS	163
10.2.6	RELEASING OF EXAMINATION RESULTS	163
10.2.7	CONDITIONS FOR PROCEEDING TO NEXT LEVEL	164

10.3	EXAMINATION IRREGULARITIES AND PENALTIES	164
10.3.1	DISCONTINUATION	164
10.4	APPEAL	167
10.4.1	APPEALING PROCEDURES	167
10.5	PLAGIARISM.....	167
10.5.1	PLAGIARISM CASES	167
10.6	AWARD OF ACADEMIC CERTIFICATES AND TRANSCRIPTS.....	168
10.6.1	GRADING SYSTEM, AWARD CLASSIFICATION AND COMPUTATION OF GPA	168
10.6.2	CONDITIONS FOR AWARDS.....	170
10.6	REPLACEMENT OF ACADEMIC TRANSCRIPTS AND CERTIFICATES	170
10.6.1	PROCEDURES FOR REPLACEMENT OF ACADEMIC TRANSCRIPTS AND CERTIFICATES.....	170
10.7	REVIEW OF UNDERGRADUATE EXAMINATION REGULATIONS	170

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 of 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 plays 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 then 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 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 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.
- 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 Commonwealth Association of Polytechnics in Africa (CAPA)
- ii. Inter University Council for East Africa (IUCEA)
- iii. African Network of Scientific and Technical Institutions (ANSTI)
- iv. Southern African Regional Universities Association (SARUA)
- v. Water Net

1.7 SENIOR OFFICERS OF THE UNIVERSITY**Chancellor**

Hon. Pius Msekwa

Chairperson of the University Council

Hon. Zakia Hamdan Meghji

1.8 MEMBERS OF THE COUNCIL**Prof. Aloys N. Mvuma**

Vice Chancellor (ex-officio)

Prof. Godliving Mtui

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

Prof. Justinian Anatory

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

Prof. Shukrani Many

University of Dar es Salaam

Prof. Lughano Kusiluka

Public University

Dr. Amos M. Nungu

Ministry of Education, Science and Technology

Dr. Haji Mwevura Haji

State University of Zanzibar

Dr. Lwitiko S. Mwakalukwa

Private Sector

Mr. Abbas Sanga

Chairman of MUST Academic Staff Association (MUSTASA)

Mr. Hassan Masanja

President of MUST Students' Organization (MUSTSO)

Ms. Anna Mbelwa

Ministry of Finance

Mr. Emmanuel Mwangomo

Chairman, Tanzania Higher Learning Institutions Trade Union (THTU) –MUST

Adv. Geofray Ngulla

Corporate Counsel/Secretary to the Council

1.9 EXECUTIVE OFFICERS OF THE UNIVERSITY

Vice-Chancellor

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

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

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

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

Prof. Justinian Anatory – Postdoc (Upsala, Sweden) PhD TE (UDSM), MSc Eng. (UDSM), BSc. Eng (UDSM)

Acting Principal MUST Rukwa Campus College

Prof. Osmund Kaunde - PhD (Leeds), MSc. (Leeds), BSc. (Eng) (UDSM)

Principal of College of Engineering and Technology

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

Principal of 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)

Acting Principal of College of Architecture and Construction Technology

Dr. Alexander N. Mtawa - PhD (CPUT, SA), MSc (Sofia Bulgaria),
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Acting Principal of College of Humanities and Business Studies

Dr. Visent T. Kipene - PhD (SUA), MBA (SUA), Bsc Ed (SUA),
Dip.Ed. (Monduli)

Acting Principal of College of Information & Communication Technology

Dr. Julius Rwakarambi - PhD Comp. Sc. (SJTU, China), MSc. Comp. Sc. (SHU, China) BSc. Ed. (UDSM)

Acting Director of Rular Technology Park

Dr. Duncan A. Mwakipesile - PhD (UDSM), Msc (Russe-Bulgaria), Bsc (Russe-Bulgaria)

Acting Director of Public Services and External Links

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

Acting Director of Quality Assurance

Dr. Lulu C. Luflenge - PhD (PJ TSAU); MA (Rural Development) (SUA); BSc (Home Economics and Human
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Acting Director of Centre for Innovation and Technology Transfer

Dr. Juma A. Mpangule - PhD in Civil Engineering and Construction Management (Technical University
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Director of Postgraduate Studies, Research and Publication

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

Director of Undergraduate Studies

Dr. Idasi Kiondo Mweteni - PhD Arch. (ARU) M.Eng. Theory of Arch & History (Tongji China), Adv.Dip.Arch.
(Ardhi Inst), FTC (DTC)

Director of Administration and Human Resource Management

Ms. Devotha M. Msuya - Masters (Mzumbe), Bachelor (Mzumbe)

Acting Director of Finance

Mr. Shwaibu Shaban - CPA (T), PGD Finance Management (IFM), ADA (IFM)

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)

Acting 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

Dr. Duwa Hamis Chengula - PhD (KASSEL), Masters (UDSM),
BSc (UDSM), FTC (MTC)

Chief Internal Auditor

Mr. Deusdedit Sinda - CPA (T), PGD Finance Management (IFM), ADA (IFM)

Dean of Students

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

Corporate Counsel

Adv. Geofray Ngulla - PhD (candidate OUT), LL.B, LLM (RUCO), PGD (LST)

1.10 ACADEMIC ORGANS

Mbeya University of Science and Technology consists of seven (7) Colleges, Campus College, one (1) Institute, three (3) Directorates and three (3) Centres.

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 Mechanical and Industrial Engineering;
- iv. Department of Geosciences and Mining Technology; 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 Urban Planning and Real Estate Studies;
- iii. Department of Construction Management and Technology.

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

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

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

- i. Department of Natural Sciences;
- ii. Department of Technical Education;
- iii. Department of Mathematics and Statistics;

- iv. Department of Applied Sciences; and
- v. Department of Medical Sciences and Technology.

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

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

1.10.6 DEPARTMENTS UNDER THE MUST RUKWA CAMPUS COLLEGE (MRCC)

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

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

- 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; and
- vi. Department of Agronomy and Soil Science.

1.10.8 DEPARTMENTS UNDER THE COLLEGE OF HEALTH SCIENCES AND TECHNOLOGY (CoHST)

- i. Department of Pharmacy and Pharmaceutical Sciences
- ii. Department of Nursing and Midwifery
- iii. Department of Dental Health
- iv. Department of Public Health

1.11 CONTACT ADDRESSES AND TELEPHONE NUMBERS**General Administration Mbeya University of Science and Technology**

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Centre for Virtual Learning and Continuing Education

P.O. Box 131, Mbeya
Tel: 255 (0) 25 250 3016/7
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MCB

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E-mail: mcb@ mustnet.ac.tz

Dean of Students Office (DOSO)

P.O. Box 131, Mbeya
Tel: 255 (0) 25 250 3016/7
Fax: 255 (0) 25 250 2302
E-mail: dos@ mustnet.ac.tz

Department of Examinations

P.O. Box 131, Mbeya
Tel: 255 (0) 25 250 3016/7
Fax: 255 (0) 25 250 2302
E-mail: examination@mustnet.ac.tz

Department of Admissions

P.O. Box 131, Mbeya
Tel: 255 (0) 25 2562033
Fax: 255 (0) 25 250 2302
E-mail: admission@mustnet.ac.tz

Public Relation and Communication Unit

P.O. Box 131, Mbeya

Tel: 255 (0) 25 250 3016/7

Fax: 255 (0) 25 250 2302

E-mail: ieco@mustnet.ac.tz

1.12 QUALITY ASSURANCE AND QUALITY CONTROL

The University has in place a Quality Assurance Policy that aims at:

- i. Improving the quality of the University functions including educational Programmes, human resources, finance and information technology, improving information management strategic planning, enhancing international relations and marketing.
- ii. Ensuring that the stated student learning outcomes are realized and
- iii. Ensuring that the university goals given in the University vision and mission are realized.

The University has appropriate academic standards through its quality control guidelines which aim at achieving excellence in career education, research and consultancy.

1.13 INSTITUTIONAL COLLABORATION

The University collaborates with peer universities and other higher learning institutions. Currently the University is collaborating with Lilongwe Technical College of Malawi, Ardhi Institute – Morogoro, Confucius Institute at University of Dar es Salaam, Muhimbili University of Health and Allied Sciences (MUHAS), Tanzania Communications Regulatory Authority (TCRA), Universal Communications Service Access Fund (UCSAF), Commonwealth of Learning (COL), Bielefeld University of Applied Science of Germany, University of Applied Sciences Burgenland, Austria, Michigan State University (USA), Technical University of Dortmund of Germany, University of Rwanda, University of Dodoma, Dar es Salaam Institute of Technology (DIT), Tanzania Atomic Energy Commission (TAEC), Sokoine University of Agriculture (SUA), Mbeya Referral Hospital (MRH), Arusha Technical College (ATC) and Tanzania Industrial Research and Development Organization (TIRDO).

1.14 STUDENTS SERVICES**1.14.1 MEDICAL 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 new students are required to furnish the University with a medical report, including a chest X-ray from a recognized medical practitioner or medical officer for registration.

1.14.2 STUDENTS WELFARE

The Dean of Students Office (DOSO) is responsible for students' administration, personal and social welfare of the students at the University. The Dean of Students is assisted by wardens, janitors and spots/games tutors.

The Office of the Dean of Students also provides the following facilities: residence, games and sports. The Dean of Students oversees the activities of students' organizations and provides general guidance and counselling in social and religious issues.

1.14.3 RESIDENCE

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

Mbeya University of Science and Technology has four (4) hostel blocks which can accommodate 2100 students at a time. Priority for in-campus accommodation is given to 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 bylaws.

1.14.4 MBEYA UNIVERSITY OF SCIENCE AND TECHNOLOGY STUDENT 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 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.

1.14.5 GAMES AND SPORTS

The University has sports facilities that include football grounds, volleyball, tennis, netball, and basketball and badminton courts. Students are therefore encouraged to participate in athletics, jogging, table tennis, football, basketball, netball and badminton. 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 (EAUSF), 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).

1.14.6 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.

1.14.7 RELIGIOUS ACTIVITIES

Religious facilities and services are available on campus for various denominations.

1.14.8 BANKING SERVICES

Financial facilities include Automatic Teller Machines (ATMs) installed within the campus. Other services include money transfer facilities provided by major mobile phone companies. Bank services are provided by various banks located in the city centre.

1.14.9 UNIVERSITY LIBRARY

MUST Library contains various book collections catering for various courses in the fields of Engineering, Science, Technology, Education, Business and Economics. The Library publishes quarterly access information as well as Library Rules and Guidelines as required. The guidelines are distributed to readers from outside and to new students during the orientation week. All readers are required to abide by the library rules and regulations. In addition, there is provision for access to online library resources (e-Library) and a collection of CD-ROMs (Compact Disc Reads Only Memory) database services.

2.0 UNIVERSITY DIPLOMA AND DEGREE AWARDS**2.1 DIPLOMA AND DEGREES OFFERED BY THE COLLEGE OF ENGINEERING AND TECHNOLOGY (CET)**

- i. Diploma in Mechanical Engineering
- ii. Diploma in Mechatronics Engineering
- iii. Diploma in Civil Engineering
- iv. Diploma in Mining Engineering
- v. Diploma in Highway Engineering
- vi. Diploma in Electrical and Electronic Engineering
- vii. Bachelor of Electrical and Electronic Engineering
- viii. Bachelor of Mechanical Engineering
- ix. Bachelor of Civil Engineering

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

- i. Diploma in Architecture
- ii. Bachelor of Technology in Architecture

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

- i. Diploma in Computer Engineering
- ii. Diploma in Computer Science
- iii. Diploma in Information and Communication Technology
- iv. Diploma in Electronic and Telecommunication Engineering
- v. Bachelor of Computer Engineering

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

- i. Diploma in Biomedical Equipment Engineering
- ii. Diploma in Food Science and Technology
- iii. Diploma in Laboratory Science and Technology
- iv. Bachelor of Laboratory Science and Technology
- v. Bachelor of Science with Education in the following specialization:
 - Chemistry and Biology
 - Chemistry and Mathematics
 - Chemistry and Physics
 - Physics and Mathematics

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

- i. Diploma in Business Administration
- ii. Bachelor of Business Administration with the following specialization:-
 - Finance and Accounting,
 - Human Resources Management,
 - Marketing and Entrepreneurship,
 - Procurement and Supply Chain Management

2.6 DIPLOMA AND DEGREE PROGRAMMES OFFERED BY MUST RUKWA CAMPUS COLLEGE (MRCC)

- i. Diploma in Mechanical Engineering
- ii. Diploma in Business Administration
- iii. Bachelor of Mechanical Engineering
- iv. Bachelor of Business Administration with the following specialization:-
 - Finance and Accounting,
 - 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**4.1 DIPLOMA PROGRAMMES**

- i. Chancellor's prize: Best Overall Finalist Student
- ii. University Prize: Best Overall Finalist Female Student
- iii. Other Award to be set by the University

4.2 UNDERGRADUATE PROGRAMMES

- i. Chancellor's prize: Best Overall Finalist Student
- ii. University Prize: Best Overall Finalist Female Student
- iii. Other Award to be set by the University

4.3 DEPARTMENTAL PRIZES

Other Prizes from departments may also be given to students based on criteria and award set by the departments.

4.4 OTHER PRIZES

Other Prizes from individuals or institutions may also be given to students based on criteria and award set by the donor.

5.0 FEES AND BURSARIES

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

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 ORDINARY DIPLOMA

5.1.1 GOVERNMENT SPONSORED STUDENTS

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

S/N	Item	1 st Year	2 nd Year	3 rd Year
1	Tuition fee (cost sharing fee)	130,000	130,000	130,000
2	Other Expenses			
i	Caution Money	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	Examinations 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	5,000	-	-
x	Medical Contribution (NHIF)	50,400	50,400	50,400
xi	Capitation fee	10,000	10,000	10,000
xii	Prospectus	3,000	-	-
xiii	Quality Assurance fee (TCU)	20,000	20,000	20,000
	Subtotal ; Other Expenses	268,400	200,400	200,400
	Total fees	398,400	330,400	330,400

5.1.2 PRIVATE SPONSORED STUDENTS

Table 2: Fee structure for Diploma in Engineering, Architecture and Science Courses (1st Year) private sponsored students in (Tshs)

S/N	Item	In campus	Off campus
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		<i>Meals and accommodation</i>	<i>Accommodation Only</i>	
1	Tuition fee	900,000	900,000	900,000
2	<i>Other Expenses</i>			
i	Meal Costs	1,176,000		
ii	Accommodation	107,100	107,100	
iii	Caution money	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	5,000	5,000	5,000
x	Medical Contribution (NHIF)	50,400	50,400	50,400
xi	Capitation fee	10,000	10,000	10,000
xii	Prospectus	3,000	3,000	3,000
xiii	NACTE Registration	20,000	20,000	20,000
	Sub-total ; Other Expenses	1,531,500	355,500	248,400
	Total fees	2,431,500	1,255,500	1,148,400

Table 3: Fee structure for Diploma in Business Administration Course (1st Year) private sponsored students in (Tshs)

S/N	Item	In campus		Off campus
		<i>Meals and accommodation</i>	<i>Accommodation Only</i>	
1	Tuition fee	700,000	700,000	700,000
2	<i>Other Expenses</i>			
I	Meal Costs	1,176,000	-	-
Ii	Accommodation	107,100	107,100	-
iii	Caution money	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	5,000	5,000	5,000
X	Medical Contribution (NHIF)	50,400	50,400	50,400

Xi	Capitation fee	10,000	10,000	10,000
Xii	Prospectus	3,000	3,000	3,000
Xiii	NACTE Registration	20,000	20,000	20,000
	Sub-total ; Other Expenses	1,531,500	355,500	248,400
	Total fees	2,231,500	1,055,500	948,400

Table 4: Fee structure for Diploma in Engineering, Architecture and Science Courses (2nd & 3rd Year) private sponsored students in (Tshs)

S/N	Item	In campus		Off campus
		Meals and accommodation	Accommodation only	
1	Tuition fee	900,000	900,000	900,000
2.0	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	-	-	-
X	Medical Contribution (NHIF)	50,400	50,400	50,400
xi	Capitation fee	10,000	10,000	10,000
xii	Prospectus	-	-	-
xiii	NACTE Registration	20,000	20,000	20,000
	Sub-total ; Other Expenses	1,429,900	287,500	180,400
	Total fees	2,329,900	1,187,500	1,080,400

Table 5: Fee structure for Diploma in Business Administration Course (2nd and 3rd Year) private sponsored students in (Tshs)

S/N	Item	In campus	Off campus
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		<i>Meals and accommodation</i>	<i>Accommodation Only</i>	
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	-	-	-
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	-	-	-
X	Medical Contribution (NHIF)	50,400	50,400	50,400
Xi	Capitation fee	10,000	10,000	10,000
xii	Prospectus	-	-	-
xiii	NACTE Registration	20,000	20,000	20,000
	Sub-total ; Other Expenses	1,429,900	287,500	180,400
	Total fees	2,129,900	987,500	880,400

5.2 FEES STRUCTURE FOR BACHELOR PROGRAMME FULL-TIME STUDENTS

5.2.1 COSTS PAYABLE TO THE UNIVERSITY BY BACHELOR OF ENGINEERING, SCIENCE AND ARCHITECTURE STUDENTS (3 YEARS PROGRAMMES)

Table 7: University's Fees and Other Expenses for Bachelor students under 3 years programme in (Tshs)

S/N	Description	UQF 7-I (2 rd Year)	UQF 7-II (3 rd Year)	UQF 8 (4 th Year)
1.0	Cost Sharing Fee	1,100,000	1,100,000	1,100,000
2.0	Other Expenses			
i.	Caution Money	20,000	-	-
ii.	Hiring University's Mattress	107,100	107,100	107,100
iii.	Hiring University's Bed			
iv.	Library Membership	30,000	30,000	30,000
v.	Examination Fee	120,000	120,000	120,000
i.	Certification	40,000	-	-
ii.	Students' Organization	10,000	10,000	10,000
iii.	Registration	10,000	10,000	5,000

iv.	Student's Identity Card	5,000	-	-
v.	Medical Contribution (NHIF)	50,400	50,400	50,400
vi.	Capitation fee	10,000	10,000	10,000
vii.	Prospectus	3,000	-	-
viii.	Quality Assurance fee (TCU)	20,000	20,000	20,000
ix.	Sub-total; Other Expenses	420,500	357,500	357,500
	Total fees (Shs)	1,525,500	1,457,500	1,452,500

*Note: *The amount set for the final project is determined by the HESLB*

5.2.2 COSTS PAYABLE TO THE UNIVERSITY BY BACHELOR OF ENGINEERING, SCIENCES AND ARCHITECTURE STUDENTS (4YEARS PROGRAMMES)

Table 8: University's Fees and Other Expenses for Bachelor students under 4 years programme in (Tshs)

S/N	Description	UQF 6 (1 st Year)	UQF7-I (2 nd Year)	UQF 7-II (3 rd Year)	UQF 8 (4 th Year)
1.0	Cost Sharing Fee	1,100,000	1,100,000	1,100,000	1,100,000
2.0	Other Expenses				
i.	Caution Money	20,000	-	-	-
ii.	Hiring University's Mattress*	107,100	107,100	107,100	107,100
iii.	Hiring University's Bed				
iv.	Library Membership	30,000	30,000	30,000	30,000
v.	Examination Fee	120,000	120,000	120,000	120,000
vi.	Certification	40,000	-	-	-
vii.	Students' Organization	10,000	10,000	10,000	10,000
viii.	Registration	10,000	10,000	5,000	5,000
ix.	Student's Identity Card	5,000	-	-	-
x.	Medical Contribution	50,400	50,400	50,400	50,400
xi.	Medical Capitation	10,000	10,000	10,000	10,000
xii.	Prospectus	3,000	-	-	-
xiii.	Quality Assurance fee (TCU)	20,000	20,000	20,000	20,000
	Sub-total; Other Expenses	425,500	357,500	352,500	352,500
	Total (Shs)	1,525,500	1,457,500	1,452,500	1,452,500

Table 9: University's Fees and Other Expenses for Bachelor students in Business Administration in (Tshs)

S/N	DESCRIPTION	UQF 7-I (2 ND YEAR)	UQF 7-II (3 RD YEAR)	UQF 8 (4 TH YEAR)
1.0	Cost Sharing Fee	800,000	800,000	800,000
2.0	Other Expenses			
vi.	Caution Money	20,000	-	-
vii.	Hiring University's Mattress	107,100	107,100	107,100
viii.	Hiring University's Bed			
ix.	Library Membership	30,000	30,000	30,000
x.	Examination Fee	120,000	120,000	120,000
x.	Certification	40,000	-	-
xi.	Students' Organization	10,000	10,000	10,000
xii.	Registration	10,000	10,000	10,000
xiii.	Student's Identity Card	5,000	-	-
xiv.	Medical Contribution (NHIF)	50,400	50,400	50,400
xv.	Capitation fee	10,000	10,000	10,000
xvi.	Prospectus	3,000	-	-
xvii.	Quality Assurance fee (TCU)	20,000	20,000	20,000
xviii.	Sub-total; Other Expenses	425,500	357,500	357,500
	Total fees (Shs)	1,225,500	1,157,500	1,157,500

5.2.3 COSTS PAYABLE DIRECTLY TO THE STUDENTS BY SPONSORS

Table 10: Costs payable direct to the students by sponsors for Bachelor in Engineering and Architecture 3 Years Programmes in (Tshs)*

S/N	DESCRIPTION	UQF 7-I	UQF-II	UQF 8
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 11: Costs payable direct to the students by sponsors for Bachelor in Engineering and Architecture 4 Years Programmes in (Tshs)

S/N	DESCRIPTION	UQF 6	UQF 7-I	UQF-II	UQF 8
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/=

*Amounts stated in Table 10 and 11 reflect the minimum requirements. Sponsors are free to pay their students according to their ability.

5.2.4 UNIVERSITY FEE STRUCTURE FOR FOREIGN STUDENTS FOR ACADEMIC YEAR 2018/2019 (FEES AND OTHER DIRECT COSTS PAYABLE TO THE UNIVERSITY)

S/N	ITEM	DIPLOMA PROGRAMMES			BACHELOR PROGRAMMES			
		1 st Year	2 nd Year	3 rd Year	1 st Year	2 nd Year	3 rd Year	4 th Year
		USD	USD	USD	USD	USD	USD	USD
	Tuition fee (per year)	1,840	1,840	1,840	2,000	2,000	2,000	2,000
	Application fee	30	-	-	30	-	-	-
	Other direct University fee –per year: <i>(Caution money, Library membership fees, Examinations fee, Certification, Students' Organization fee, Registration fee, Student's Identity Card, Medical Contribution</i>	500	450	450	500	450	450	450

(NHIF), Student's Relief Fund, Prospectus, NACTE Registration)								
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 6-8	
		USD		USD	
1	Accommodation (Annually)	300		300	
2	Meals (Annually)	1,500		1,500	
3	Books and stationery allowance (Annually)	500		800	
GRAND TOTAL		2,300		2,600	

5.3 INSTALLMENTS PAYABLE

The tuition fee may be paid in two instalments, one at the beginning of each semester; while all other fees must be paid in full at the beginning of each academic year. All payments are made directly to the University Bank Account before the students can be registered for studies.

6.0 GENERAL ADMISSION REQUIREMENTS

6.1 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 in Mbeya University of Science and Technology one 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.
- iv. No student from another institution shall be admitted to the third or 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 following year provided the admission requirements remain the same.
- vi. An Diploma Student who postponed studies for more than two academic years or absconded studies according to university examination regulations shall be required to apply for re-admission by paying an application fee and filling the respective form. The university will evaluate the application and make decision.
- vii. A Bachelor Degree Student who postponed studies for more than two years or absconded studies according examination regulations and stayed out of the university for more than two years shall be required to re-apply for admission through the central admission system under TCU.

6.2 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 as it will be indicated in the application procedures of a particular academic year.

The filled Online Application Information must reach the University Admission Office not later than the deadline set for application submission in the online system

6.3 PAYMENT OF FEES

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

6.4 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 are in need of assistance to meet the University fees and expenses should seek bursaries from funding organizations.

6.5 MBEYA UNIVERSITY OF SCIENCE AND TECHNOLOGY ACADEMIC YEAR

The academic year for Diploma and Bachelor Degree Programmes will begin in October every year, otherwise stated differently, and shall end as indicated by the University Academic Almanac.

6.6 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.

6.7 CHANGE OF COURSES

Except in exceptional circumstances, no student will be allowed to change programme later than **two weeks** after the beginning of the first semester for the undergraduate students.

For Bachelor degree students, change of programmes shall only be accepted after receiving approval from TCU.

6.8 STUDENTS' NAMES

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

6.9 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 ones 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.

6.10 ADMISSION REQUIREMENTS FOR DIPLOMA PROGRAMMES

6.10.1 ENTRY REQUIREMENTS

Applicants may join Diploma Programmes through direct entry scheme.

6.10.2 DIRECT ENTRY REQUIREMENTS

- **For students applying for Technology in Architecture**

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 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.

- **For students applying Engineering Courses**

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) Non-religious 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.

● **For students applying for Computer Science or Information and Communication**

Technology

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

● **For students applying for Biomedical Equipment Engineering and Laboratory Science and Technology**

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.

● **For students applying for Food Science and Technology**

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 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.

● **For students applying for Diploma in Business Administration**

Possession of Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects.

6.10.3 ADMISSION REQUIREMENTS FOR BACHELOR DEGREE PROGRAMMES

The following are the minimum entry requirements for Bachelor Degrees:

S/N	Programme	Admission requirements: Form VI	Admission requirement: Diploma(Teacher Education or NTA Level 6)	Specific Requirements	Minimum Institutional Admission points For Form VI	Programmes Duration (years)
1	Bachelor of Business Administration with specialization in:- <ul style="list-style-type: none"> • Finance and Accounting • Human Resource Management • Marketing and Entrepreneurship • Procurement and Supply Chain Management 	Any Two principal passes including subsidiary in Mathematics at A-Level or pass at O level	Diploma (NTA Level 6) in Business Management, Business Administration, Education, Engineering, Law, Accountancy, Marketing with an average of 'B' or GPA of 3.0 excluding Diploma in Religious Studies (Bible Knowledge or Islamic Studies)	4 passes at O' level	4.0	3 years

2	Bachelor of Civil Engineering	Two principal passes of at least “D” grade at Advanced Level in Mathematics and Physics. Those without at least an “E” grade in Chemistry at A-Level must have a Credit at O-Level	Holders of Ordinary Diploma (NTA Level 6) in Civil or Mining or Transportation, or Water Supply and Sanitation or Civil and Irrigation Engineering or Architecture respectively, all with an average of B or GPA of 3.0 OR Full Technician Certificate(FTC) in Civil or Mining or Transportation, or Water Supply and Sanitation or Civil and Irrigation Engineering or Architecture respectively, all with an average of C	One of the passes must be in Mathematics 4 passes at O’ level	4.0	3 years for Ordinary Diploma holders 4 years for Form VI leavers (ACSEE)
3	Bachelor of Electrical and Electronics Engineering	Two principal passes of at least ‘D’ grade at Advanced Level in Mathematics and Physics. Those without at least an “E” grade in Chemistry at A-Level must have a Credit at O-Level	Holders of Ordinary Diploma (NTA Level 6)in Electrical or Electrical and Electronic or Electronics and Telecommunication or Mechatronics Engineering respectively, all with an average of B or GPA of 3.0 OR Full Technician Certificate (FTC) in Electrical or Electrical and Electronic or Electronics and Telecommunication or Mechatronics Engineering respectively, all with an average of C	One of the passes must be in Mathematics 4 passes at O’ level	4.0	3 years for Ordinary diploma holders 4 years for Form VI leavers (ACSEE)
4	Bachelor of Technology in Architecture	Two principal passes at least” D” grade at Advanced Level in Mathematics and	Holders of Ordinary Diploma (NTA Level 6)in Architecture with an average of B or GPA of 3.0	One of the passes must be in Mathematics	4.0	3 years for Ordinary Diploma holders

		Physics or Chemistry or Geography at A-Level	OR Full Technician Certificate (FTC)) in Architecture with an average of C	4 passes at O' level		4 years for Form VI leavers (ACSEE)
5	Bachelor of Mechanical Engineering	Two principal passes of at least "D" grade at Advanced Level in Mathematics and Physics. Those without at least an "E" grade in Chemistry at A-Level must have a Credit at O-Level	Holders of Ordinary Diploma (NTA Level 6) in Mechanical Or Automotive or Automobile or Mechatronics Engineering respectively, all with an average of B or GPA of 3.0 OR Full Technician Certificate (FTC)) in Mechanical or Automotive or Automobile or Mechatronics Engineering respectively, all with an average of C	One of the passes must be in Mathematics 4 passes at O' level	4.0	3 years for Ordinary Diploma holders 4 years for Form VI leavers (ACSEE)
6	Bachelor of Computer Engineering	Two principal passes of at least "D" grade at Advanced Level in Mathematics and Physics. Those without a Principal or subsidiary level pass in Chemistry must have a Credit at O-Level	Holders of Ordinary Diploma (NTA Level 6) in Computer Engineering/Science or Information and Communication Technology (ICT) or Electrical and Electronics or Mechatronics Engineering respectively, all with an average of B or GPA of 3.0 OR Full Technician Certificate (FTC) in Computer Engineering/Science or Information and Communication Technology (ICT) or Electrical and Electronics or Mechatronics Engineering	One of the passes must be in Mathematics 4 passes at O' level	4.0	3 years for Ordinary Diploma 4 years for Form VI leavers (ACSEE)

			respectively, all with an average of C			
7	Bachelor of Laboratory Sciences and Technology	Two principal passes of at least “D” grade at Advanced Level in Biology, Chemistry or Physics and must have a Certificate of Secondary Education Examination (CSEE) with a pass in Mathematics, Physics, Chemistry and Biology.	<p>Holders of Ordinary Diploma (NTA level 6) in Laboratory Sciences and Technology with an average of B or GPA not less than 3.0 and Possession of Certificate of Secondary Education Examination (CSEE) with a pass in Mathematics, Physics, Chemistry and Biology</p> <p>OR</p> <p>Possession of Full Technician Certificate (FTC) in Laboratory Technology with an average of C and Possession of Certificate of Secondary Education Examination (CSEE) with a pass in Mathematics, Physics, Chemistry and Biology</p>	<p>One of the passes must be in Mathematics</p> <p>4 passes at O’ level</p>	4.0	<p>3 years for both Ordinary Diploma and Form VI leavers (ACSEE)</p>
8	<ul style="list-style-type: none"> Bachelor of Science with Education in Chemistry and Biology 	Two principal passes of at least “D” grade at Advanced Level in Chemistry and Biology.	Holders of Ordinary Diploma (NTA level 6) in education or any other diploma in Sciences with an average of B or GPA not less than 3.0	4 passes at O’ level	4.0	<p>3 years for both Ordinary Diploma and Form VI leavers (ACSEE)</p>
	<ul style="list-style-type: none"> Bachelor of Science with Education in Chemistry and Mathematics 	Two principal passes of at least “D” grade at Advanced Level in Chemistry and Mathematics.	Holders of Ordinary Diploma (NTA level 6) in education or any other diploma in Sciences with an average of B or GPA not less than 3.0	4 passes at O’ level	4.0	<p>3 years for both Ordinary Diploma and Form VI leavers (ACSEE)</p>

	<ul style="list-style-type: none"> • Bachelor of Science with Education in Chemistry and Physics 	Two principal passes of at least “D” grade at Advanced Level in Chemistry and Physics.	Holders of Ordinary Diploma (NTA level 6) in education or any other diploma in Sciences with an average of B or GPA not less than 3.0	4 passes at O’ level	4.0	3 years for both Ordinary Diploma and Form VI leavers (ACSEE)
	<ul style="list-style-type: none"> • Bachelor of Science with Education in Physics and Mathematics 	Two principal passes of at least “D” grade at Advanced Level in Physics and Mathematics.	Holders of Ordinary Diploma (NTA level 6) in education or any other diploma in Sciences with an average of B or GPA not less than 3.0	4 passes at O’ level	4.0	3 years for both Ordinary Diploma and Form VI leavers (ACSEE)

6.10.4 ENTRY QUALIFICATIONS FOR BACHELOR PROGRAMMES FOR THE CANDIDATES WITH FOUNDATION (BRIDGING) COURSE QUALIFICATIONS FOR THE ACADEMIC YEAR 2019/2020

S/N	Programme	Admission requirements: Form VI and Foundation Course Qualifications	Minimum Foundation	Programmes
1	Bachelor of Business Administration	Any Two principal passes of at least “B” grade in Foundation Course and minimum GPA of 3.0 including subsidiary in Mathematics at A Level and must have a Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects	6.0	3 years

2	Bachelor of Civil Engineering	Two principal passes of at least “B” grade in Mathematics and Physics and minimum GPA of 3.0 in the Foundation Course and must have a Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, three of	6.0	4 years
3	Bachelor of Electrical and Telecommunication Engineering	Two principal passes of at least “B” grade in Mathematics and Physics and minimum GPA of 3.0 in the Foundation Course and must have a Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, three of	6.0	4 years
4	Bachelor of Technology in Architecture	Two principal passes of at least “B” grade in Mathematics and Physics or Chemistry or Geography and minimum GPA of 3.0 in the Foundation Course and must have 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/Geography.	6.0	4 years
5	Bachelor of Mechanical Engineering	Two principal passes of at least “B” grade in Mathematics and Physics and minimum GPA of 3.0 in the Foundation Course and must have a Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, three of	6.0	4 years
6	Bachelor of Computer Engineering	Two principal passes of at least “B” grade in Mathematics and Physics and minimum GPA of 3.0 in the Foundation Course and must have a Certificate of Secondary Education Examination (CSEE) with a pass in at least four (4) non-Religious subjects, three of	6.0	4 years
7	Bachelor of Laboratory Sciences and Technology	Two principal passes of at least “B” grade in Biology, Chemistry or Physics and minimum GPA of 3.0 in the Foundation Course and must have a Certificate of Secondary Education Examination (CSEE) with a pass in Mathematics, Physics, Chemistry and Biology.	6.0	3 years

8	Bachelor of Science with Education in the following Combinations <ul style="list-style-type: none"> • Physics and Mathematics • Physics and Chemistry • Mathematics and Chemistry • Chemistry and Biology 	Two principal passes of at least “B” grade in Physics and Mathematics or Physics and Chemistry or Chemistry and Biology or Mathematics or Chemistry and minimum GPA of 3.0 in the Foundation Course and must have a Certificate of Secondary Education Examination (CSEE) with a pass in Mathematics, Physics, Chemistry and Biology	6.0	3 years
NOTE: <i>Grade Points for Foundation are as follows: A =5, B+ =4, B = 3, C= 2, D= 1, E = 0.5</i>				

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 and Regulations of the University

Any of these regulations can be obtained from the Director of Undergraduate Studies, Dean of Students, or Heads of respective Departments and University Library. Students can also access these Regulations directly from MUST website: www.mustnet.ac.tz

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)

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

Professor:

Prof. Joseph Msambichaka, PhD (Dortmund), MSc. (UDSM), Bachelor Engineering (Mysore),

Senior Lecturer

Dr. Zacharia Katambara, PhD WRE (Witwatersrand-South Africa), MSc. WRE Engineering (UDSM), BSc Civil Engineering (UDSM),

Lecturers:

*Dr. Mwajuma I. Lingwanda, PhD Geotechnical Eng. (UDSM), MSc. Highway Eng. (UDSM), PGD Highway Eng. (UDSM), ADE Civil Eng. (DIT). FTC Archt. (MTC),

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

Dr. Gislal Kifanyi, PhD WRE (Tshwane University of Technology – SA), MEM. (UDSM), PGD (UDSM), BSc Civil Eng. (UDSM),

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

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. Hieromin Mboya, MSc. Structural Eng. (UDSM), PGD Structural. Engineering. (UDSM), ADE Civil. Engineering. (DIT), FTC Civil (MTC).

*Mr. Omari Shegwando, MSc. Environmental Technology and Management t (ARU), BSc. Civil Eng. (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. Hashimu H. Mnzava MSc. Material Science Engineering, (NMAIST), BSc. Civil and Str. Engineering. (UDSM)

*Mr. Partice Nyangi Mkono MSc. Civil Engineering (University of Science and Technology Houari Boumediene – ALGERIA), BSc. Civil Engineering (University of Science and Technology Houari Boumediene – ALGERIA).

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

Tutorial Assistants

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

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

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

*Ms Shamsa M. Nassibu Bachelor Engineering Civil (MUST), FTC Civil Eng. (TCA).

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

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. Asifiwe Z. Swalo Bachelor Civil Engineering (MIST), Ordinary Diploma Civil Engineering (DIT)

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

Mr. Mussa G. Magaka,	Bachelor Civil Engineering (MIST)
Mr. Oscar J. Shiganza	BSc. Civil Engineering (ST. JOSEPH UNIVERSITY)
Mr. Lameck Owiti	Bachelor 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. Justus P. Eliya	Bachelor Civil Engineering (MUST); FTC. Civil (TCA)
Mr. Crodiwick W. Ruvunduka	Bachelor Civil Engineering (DIT), Ordinary Diploma Transportation Engineering (ATC)
Mr. Kizito A. Ngowi	MSc in Geographical Information System (UDSM), Bsc. Urban & Reg. Planning (ARU); Ord.Diploma in Cartography (Ardhi Inst.-Tabora)
Mr. George J. Nyaisonga	AD BEcon. (Ardhi Institute)
Mr. Godwin Z. Kabungo	Advance Diploma in Engineering (Civil) (MTC); FTC. Civil (DAR TECH)
Mr. Stephano S. Maduka	Bachelor Civil Engineering (MUST, Ord. Diploma in Transportation Engineering (ATC)*
Mr. Goodluck M. Masige	MSc. Water and Sanitation Utility Management (AgroParis-France), Bsc in Civil Engineering (MUST)

Technicians

Mr. Edson B. Rogasian	Bachelor Civil ENgeering (MUST), OD. Civil (MIST)
Mr. Alfred B. Nyingi	Bachelor Civil Engineering (MUST), OD. Civil (ATC)
Mr. Samwel J. Kihogo	Ordinary Diploma in Civile Engineering (MIST)
*Mr. Aaron J. Maganga	FTC in Water Laboratory Technology (Water Resources Institute)

Artisans

Mr. John Mwakambonja-	Technician Auxiliary I
Mr. Joseph Gesu-	Technician Auxiliary II
Mr. Anselim B. Raphael-	Technician Auxiliary II

**On study leave*

8.1.1.3 PROGRAMME COURSES

DIPLOMA IN CIVIL ENGINEERING

A. 1st Year - Diploma in Civil Engineering

Semester I

Fundamental Courses		
Code	Name	Credits
SBT 04101	Basics of Calculus, Logarithms and Number Systems	4
SBT 04102	Introduction to Mechanics	4
SBT 04103	Introduction to Technical Communication	4
COT 04105	Introduction To Computer Hardware And Software	3
Core Courses		
CET 04101	Basic Civil Engineering Materials	6
CET 04102	Basic Soil Mechanics	6
CET 04103	Introduction to Engineering Drawing.	9
CET 04104	Building Workshop Practice	12
CET 04105	Building Construction	6
CET 04106	Road Construction	6
TOTAL		60

Semester II

Fundamental Courses		
Code	Name	Credits
SBT 04201	Polynomials, Matrices and Binomial Theorem	4
SBT 04202	Essentials of Mechanics	4
SBT 04203	Fundamentals of English Grammar	2
COT 04210	Introduction To Spreadsheet And Word Processing Software	4
Core Courses		
CET 04201	Civil Engineering materials	6
CET 04204	Building services Workshop Practice	12
CET 04205	Building Maintenance	4
CET 04206	Unpaved Road Maintenance	4
CET 04207	Introduction to Structural Mechanics	6
CET 04208	Linear Surveying	8
FPT 04	Field Practical Training	10
TOTAL		64

B. Diploma in Civil Engineering (2nd Year)**Semester I**

Fundamental Courses		
Code	Name	Credits
SBT 05101	Linear programming and Trigonometry	4
SBT 05102	Waves and Oscillations	4
SBT 05103	Technical Communication skills	3
SBT 05104	Introduction to entrepreneurship	3
COT 05105	Introduction to Databases and Presentations	3
Core Courses		
CET 05101	Structural Mechanics	6
CET 05102	Civil Engineering Materials Mix Design	3
CET 05103	Soil Mechanics	6
CET 05104	Carpentry and Joinery Workshop Practice	9
CET 05105	Building design and Drawing	6
CET 05106	Pavement Design and Construction	6
CET 05107	Construction of Framed Structures	4
TOTAL		57

Semester II

Fundamental Courses		
Code	Name	Credits
SBT 05201	Calculus	6
SBT 05202	Mechanical properties & Fluid Mechanics	4
SBT 05203	Fundamentals of Technical Communication	3
SBT 05204	Globalization and Social Change	3
COT 05210	Introduction to Computer Programming in C	3
Core Courses		
CET 05208	Introduction to Reinforced Cement Concrete Design	8
CET 05209	Quantity Surveying	6
CET 05210	Mechanical Properties of Civil Engineering Materials	6
CET 05211	Paved Road Maintenance	3
CET 05212	Building Service Maintenance	3
CET 05213	Basic Construction Management	3
CET 05214	Water Supply and Sanitation	3
CET 05215	Land Surveying	6
FPT 05	Field Practical Training	10
TOTAL		67

C. Diploma in Civil Engineering (3rd Year)

Semester I

Fundamental Courses		
Code	Name	Credits
SBT 06101	Vector and coordinate Geometry	5
SBT 06102	Heat and Thermodynamics	5
SBT 06104	Entrepreneurship	4
COT 06105	Introduction to computer network	2
Core Courses		
CET 06102	Introduction to Foundation Engineering	6
CET 06105	Construction of Building Services	5
CET 06107	Reinforced Cement Concrete Design	6
CET06109	Estimation and Costing	6
CET 06110	Construction Planning	5
CET 06111	Water Supply and treatment	6
CET 06112	Fluid Mechanics and Hydraulics - I	6
CET 06113	Timber Structural Design	7
CET 06115	Project – I	8
TOTAL		71

Semester –II

Fundamental Courses		
Code	Name	Credits
SBT 06201	Logic and Statistics	5
SBT 06202	Organic compounds	5
Core Courses		
CET 06201	Building Materials	3
CET 06205	Construction of Building Protections	5
CET 06207	Concrete Retaining walls and Pre-stressed structures	6
CET 06210	Construction Management	5
CET 06211	Waste Water Management	5
CET 06212	Fluid Mechanics and Hydraulics II	6
CET 06214	Steel Structural Design	7
CET06215	Project II	10
TOTAL		57

DIPLOMA IN HIGHWAY ENGINEERING

A. Diploma in Highway Engineering (1st Year)

Semester I

Fundamental Courses		
Code	Name	Credits
SBT 04101	Basics of Calculus, Logarithms and Number Systems	5
SBT 04102	Introduction to Mechanics	3
SBT 04103	Introduction to Technical Communication	3
COT 04105	Basic Computer Applications I	2
Core Courses		
CET 04101	Civil Engineering Materials (Theory – I)	6
CET 04102	Soil Mechanics - I	6
CET 04103	Engineering Drawing-I.	9
CET 04104	Workshop Practice - I	12
CET 04105	Building Construction -I	6
CET 04106	Road construction-I	6
TOTAL		58

Semester II

Fundamental Courses		
Code	Name	Credits
SBT 04201	Polynomials, Matrices and Binomial Theorem	5
SBT 04202	Essentials of Mechanics	5
SBT 04203	Fundamentals of English Grammar	2
COT 04210	Basic Computer Applications II	2
Core Courses		
CET 04201	Civil Engineering materials (Practical-I)	6
CET 04204	Workshop Practice - II	12
CET 04205	Building Maintenance - I	4
CET 04206	Road Maintenance - I	4
CET 04207	Structural Mechanics - I	6
CET 04208	Land Surveying - I	8
FPT 04	Field Practical Training	10
TOTAL		64

B. Diploma in Highway Engineering (2nd Year)

Semester I

Fundamental Courses		
Code	Name	Credits
SBT 05101	Linear programming and Trigonometry	5
SBT 05102	Waves and Oscillations	5
SBT 05103	Technical Communication skills	2
SBT 05104	Introduction to entrepreneurship	2
COT 05105	Basic Computer Applications III	2
Core Courses		
CET 05101	Structural Mechanics - II	6
CET 05102	Civil Engineering Materials (Theory-II)	3
CET 05103	Soil Mechanics - II	6
CET 05104	Workshop Practice -III	9
CET 05105	Engineering Drawing-II	6
CET 05106	Pavement Design and Construction	6
CET 05107	Building construction -II	4
TOTAL		56

Semester II

Fundamental Courses		
Code	Name	Credits
SBT 05201	Calculus	6
SBT 05202	Mechanical prop. & Fluid Mechanics	4
SBT 05203	Fundamentals of Technical Communication	2
SBT 05204	Globalization and Social Change	2
COT 05210	Basic Computer Applications IV	3
Core Courses		
CET 05208	Reinforced Concrete Design - I	8
CET 05209	Quantity Surveying	6
CET 05210	Civil Eng. Materials (Practical-II)	6
CET 05211	Road Maintenance - II	3
CET 05212	Building Maintenance - II	3
CET 05213	Construction Management - I	3
CET 05214	Water Supply and Sanitation - I	3
CET 05215	Land Surveying - II	6
FPT 05	Field Practical Training	10
TOTAL		65

C. Diploma in Highway Engineering (3rd Year)

Semester I

Fundamental Courses		
CODE	Name	CREDITS
GSD 06101	Coordinate Geometry and Differential Equations	4
GSD 06102	Correspondence, and Report Writing	4
Core Courses		
TET 06120	Route design	9
TET 06121	Pavement Materials	9
TET 06122	Traffic and Transportation Engineering	9
TET 06123	Basic Bridge Construction and maintenance	6
TET 06124	Soil Mechanics and foundations	9
CET 06123	Structural Timber Design	6
TET 06125	Project I (Project Proposal)	5
TOTAL CREDITS		61

Semester II

Fundamental Courses		
CODE	Name	CREDITS
GSD 06201	Linear Programming, Statistics and Probability	3
GSD 06202	Enterprise Management	6
Core Courses		
TET 06226	Social and Environmental Management	6
CET 06226	Hydraulics and fluid mechanics	9
TET 06227	Construction Management and Procurement Practice	9
TET 06228	Pavement Engineering	9
CET 06230	Structural Steel Design	9
TET 06229	Project(Report)	5
TET 06230	Industrial Training	10
TOTAL		66

BACHELOR OF CIVIL ENGINEERING

A. UQF 6: Bachelor of Civil Engineering

Semester I

CODE	Name	CREDITS
CEB 1101	Engineering Drawing I	9
CEB 1102	Construction Technology – I (Masonry, Brickwork and painting)	12
CEB 1103	Building Construction- I	9
CEB 1104	Soil Mechanics	6
CEB 1105	Structural Mechanics I	3
CEB 1106	Land Surveying I	6
CEB 1107	Civil Engineering Materials –I	6
CEB 1108	Road Construction and Maintenance I	4
TOTAL		55

Semester II

CODE	Name	CREDITS
CEB 1209	Engineering Drawing II	6
CEB 1210	Construction Technology – II (Plumbing, Welding, Electrical Installation)	6
CEB 1211	Building Construction-II	6
CEB 1212	Structural Mechanics II	3
CEB 1213	Land Surveying II	6
CEB 1214	Civil Engineering Materials – II	6
CEB 1215	Road Construction And Maintenance II	8
CEB 1216	Water Supply And Sanitation	6
CEB 1217	Workshop Practice	8
CEB IPT 1	Industrial Practical Training	10
TOTAL		65

B. UQF 7: Bachelor of Civil Engineering

Semester I

Fundamental Courses		
CODE	Name	CREDITS
GSB 2101	Linear Algebra and Calculus	6
GSB 2105	Communication Skills	4
COB 2102	Data Structure Computer Programming	6
Core Courses		
CEB 2101	Engineering Survey-I	9
CEB 2102	Construction Technology	6
CEB 2103	Fluid Mechanics	9
CEB 2104	Civil Engineering Materials I	6
CEB 2105	Mechanics of Structures	4
CEB 2106	Engineering Geology	4
CEB 2107	Concrete Technology	6
TOTAL		60

Semester II

Fundamental Courses		
Code	Name	Credits
GSB 2202	Advanced Calculus	6
COB 2202	Object Oriented Programming	6
Core Courses		

CEB 2208	Engineering Survey II	9
CEB 2209	Fluid Mechanics and Hydraulics	9
CEB 2210	Building Planning and Drawing	6
CEB 2211	Structural Analysis I	4
CEB 2212	Civil Engineering Materials II	3
CEB 2213	Soil Mechanics	9
CEB 2214	Engineering Hydrology	4
CEB IPT 02	Industrial Practical Training	10
TOTAL		66

Semester III

Fundamental Courses		
CODE	Name	CREDITS
GSB 3103	Differential Equations	6
Core Courses		
CEB 3115	Quantity Survey I	6
CEB 3116	Structural Analysis II	6
CEB 3117	Geometric Design and Traffic Engineering	9
CEB 3118	Reinforced Concrete Design & Detailing-I	9
CEB 3119	Foundation Engineering	9
CEB 3120	Highway Engineering Materials	6
TOTAL		51

Semester IV

Fundamental Courses		
Code	Name	Credits
GSB 3204	Statistics and Numerical Analysis	6
GSB 3206	Entrepreneurship Education I	6
Core Courses		
CEB 3222	Quantity Surveying II	6
CEB 3223	Reinforced Concrete Design & Detailing-II	9
CEB 3224	Construction Management	6
CEB 3225	Water Supply Engineering	6
CEB 3226	Contract Planning and Administration	4
CEB 3227	Pavement Design and Construction	9
CEB 3228	Research Methodology	4
CEB IPT 03	Industrial Practical Training	10
TOTAL		66

A. UQF 8: Bachelor of Civil Engineering

Semester I

Core Courses		
CODE	Name	CREDITS
CEB 4128	Engineering Economics	9
CEB 4129	Structural Steel Design	6
CEB 4130	Waste Water Management	6
CEB 4131	Pavement Maintenance	3
CEB 4132	Construction of Multi-Storey Structures	6
CEB 4136	Building Services	6
CEB P 01	Project I	18
TOTAL		54
Elective Courses		
Code	Name	Credits
CEB 4133	Pre-stressed Concrete Design	6
CEB 4134	Irrigation Engineering	6
CEB 4135	Bridge Design and Construction	6
TOTAL		18

Semester II

Fundamental Courses		
Code	Name	Credits
GSB 8201	Entrepreneurship Education II	6
Core Courses		
CEB 4237	Design of Masonry and Retaining Structures	6
CEB 4238	Structural Timber Design	6
CEB 4239	Solid Waste Management	6
CEB 4240	Industrial Building Construction	6
CEB 4242	Hydraulic Structures	6
CEB P 02	Project II	18
TOTAL		54
Elective Courses		
Code	Name	Credits
CEB 4241	Transportation Engineering	6
CEB 4243	Water Resources Management	6
TOTAL		12

8.1.2 DEPARTMENT OF GEOSCIENCE AND MINING TECHNOLOGY

Programmes

The Department offers one (1) Programme:

- (i) Diploma in Mining Engineering

8.1.2.1 LABORATORIES AND WORKSHOPS

- i. Mining Laboratory

8.1.2.2 LIST OF STAFF

(Head of Department)

Mr. Silla W. Livifile MSc. Prod Eng. (UDSM), PGDE Mech. (UDSM), ADE Mech. (MIST), FTC. Mech. Eng. (TCA).

Lecturers:

Dr. Muya Somo Mgaza, PhD. Geotechnical Eng. (HUST). MSc. Geotechnical Eng. (HUST), BSc. Geology (UDSM).

Mr. Raphael Iddiphonce MSc Renewable Energy. Eng (UDSM), BSc. Mech. Eng. (UDSM) *

Assistant lecturer

Mr. Oltungey Lindi- MSc. Petroleum Engineering (Norwegian University of Science and Technology); BSc. Mining (UDSM)

Mr. Charles Mtaita MSc. Mining Survey Eng. (Moscow State Mining), *

Mr. Alvin K. Mulashani MSc. Oil and Gas Dev. Eng. (Xi'an Shiyou, China), BSc. Mech. Eng. (MIST).

Mr. Alex M. William BSc. Mech. Eng. (UDSM) *

Tutorial Assistant

Mr. Melckzedek Mgimba- BSc. Mining (UDSM)

Mr. Wilson L. Ngole BSc. Mining (UDSM) *

Mr. Nickson N. Lushasi- BSc. Mining (UDSM) *

Mr. Osmund E. Mwangupili- BSc. Mining (UDSM) *

Instructors

Mr.NjamasiS.Chiwanga	MSc Safety & Reliability Eng Oil & Gas (Aberdeen, UK), Beng. Electrical and Electronics (SJCET)
Mr. Frank A. Mwakyembe-	Bsc. Mining (UDSM)
Mr. Abasi A. Hawaii	Bsc. Mining (UDSM)
Mr. Adamu Musa	BSc. Mining (UDSM) *

Technicians

Ms. Asha Thobias Chiwanga	Ordinary Diploma Mining Engineering (MRI-Dodoma)
Ms. Teresia M Luambano	Ordinary Diploma Mining Engineering (MUST)

8.1.2.3 PROGRAMME COURSES

DIPLOMA IN MINING ENGINEERING

A. Diploma in Mining Engineering (1st Year)

Semester-I

Fundamental Courses		
Code	Name	Credits
SBT 04101	Basics of Calculus, Logarithms and Number Systems	5
SBT 04102	Introduction to Mechanics	3
SBT 04103	Introduction to Technical Communication	3
SBT 04104	Elementary Theories of Entrepreneurship Development	3
COT 04105	Basic Computer Application I	2
Core Courses		
MNT 04101	Introduction to Mining	6
MNT 04102	Fundamentals of Drilling Practices	6
MNT 04103	Mine Safety and Regulations	6
MNT 04104	Drilling Skills Practices	6
MNT 04105	Land Surveying	8
MNT 04106	Technical Drawing	9
MNT 04107	Introduction to Physical Geology	6
MNT 04108	Workshop Practice I	9
TOTAL		72

Semester-II

Fundamental Courses		
Code	Name	Credits
SBT 04201	Polynomials, Matrices and Binomial Theorem	5
SBT 04202	Essentials of Mechanics	5
SBT 04203	Fundamentals of English Grammar	2
COT 04210	Basic Computer Application II	2
Core Courses		
MNT 04201	Introduction to Basics of Surface Mining	6
MNT 04202	Explosives and Blasting Techniques	6
MNT 04203	Introduction to Rock Properties for Drilling and Blasting	6
MNT 04204	Basic Mineralogy, Petrology and Ore Geology	7
MNT 04205	Workshop Practice II	9
MNT FPT 04	Industrial Practical Training	10
TOTAL		58

B. Diploma in Mining Engineering (2nd Year)

Semester I

Fundamental Courses		
Code	Name	Credits
SBT 05101	Linear programming and Trigonometry	5
SBT 05102	Waves and Oscillations	5
SBT 05103	Technical Communication skills	2
SBT 05104	Entrepreneurship and Simple Business Projects	3
COT 05105	Basic Computer Applications III	2
Core Courses		
MNT 05101	Drilling and Blasting Practices in Mine Works.	12
MNT 05102	Mine Equipment and Installations Maintenance Monitoring	12
MNT 05103	Introduction to Safety and Risk Assessment in Mine Works.	12
CET 06112	Hydraulics and Fluid Mechanics I	6
TOTAL		59

Semester II

Fundamental Courses		
Code	Name	Credits
SBT 05201	Calculus	6

SBT 05202	Mechanical properties & Fluid Mechanics	4
SBT 05203	Fundamentals of Technical Communication	2
SBT 05204	Globalization and Social Change	2
COT 05210	Basic Computer Applications IV	3
Core Courses		
MNT 05201	Introduction to Rock Mechanics	12
MNT 05202	Basics of Technical Report Writing	8
MNT 05203	Introduction to Mine Business and Mining Regulatory Framework	12
MNT 05204	Basics of Ore Dilution and Production Control	12
MNT 05205	Industrial Practical Training	10
TOTAL		71

C. Diploma in Mining Engineering (3rd Year)

Semester I

Fundamental Courses		
Code	Name	Credits
SBT 06101	Vector and coordinate Geometry	5
SBT 06102	Heat and Thermodynamics	5
SBT 06104	Small Enterprise Management	3
COT 06105	Basic Computer Applications V	2
Core Courses		
MNT 06101	Introduction to Underground Mining	9
MNT 06102	Basics of Mining Excavation and Tailing Dam Design.	9
MNT 06103	Introduction to Mine Surveying	9
MNT06104	Mine Equipment and Installations Maintenance Management	7
MNT 06105	Safety Practices in Mine and Civil Works	6
CET 06212	Fluid Mechanics and Hydraulics –II	6
MNT 06107	Project – I	6
TOTAL		67

Semester -II

Fundamental Courses		
Code	Name	Credits
SBT 06201	Logic and Statistics	5
SBT 06202	Organic Compounds	5
Core Courses		
MNT 06201	Underground Mine Support Systems	8

MNT 06202	Mine Ventilation	8
MNT 06203	Material Handling System Design	10
MNT 06204	Introduction to Mineral Processing Techniques	6
MNT 06205	Introduction to Management in Mine Works	6
MNT 06206	Project – II	6
TOTAL		54

8.1.3 DEPARTMENT OF ELECTRICAL AND POWER ENGINEERING

Programmes

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)

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

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, MSc Elec. Eng. (Kharkov State Technical University of Agriculture-Ukraine), Tech. Ed. (Morogoro)

Assistant Lecturer

* Mr. Isaka J. Mwakitalima MSc. Sustainable Energy (NM-AIST), Bachelor Electrical and Electronics (SJCET), Dip.Ed. Electrical (Klerruu TTC), FTC Electrical (ATC)

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. Zephania A.D. Chaula MSc. Elect. Eng. (Donetsk State University Ukraine), FTC Electrical (DTC).

Ms. Scholastica C. Loppa MEM, PGD Elect. Eng. (UDSM), ADE Elect.Eng, FTC (ATC), Tech. Ed. (Morogoro)

Mrs. Janeth M. Tesha, Msc. Elect. Eng. (UDSM), PGD Elect.Eng. (UDSM), ADE Elect.Eng, (DTC), FTC (ATC), Tech. Ed. (Morogoro)

Mr. Vincet Venance Massawe, MSc Elect.Eng. (St. Petersburg State Polytechnical University-Russia); BSc Elect. Eng. (Russia); FTC in Mech. Eng. (ATC)

Mr. Godwin Mnkeni, MSc. Elect. Eng. (UDSM), ADE Elect. Eng. (DIT), Dip. Elect. Eng. (Kidatu), Tech. Ed. (Morogoro)

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

Mr. Nicholas G. Moyo, MSc. Elect. Eng. (UDSM), ADE (Elect. Eng. (DIT), FTC (ATC)

Tutorial Assistants

Mr. Wilbert Ruta Beng. Electrical and Electronics (MIST), Diploma Electrical and Electronics (MIST) *

Mr. Makunja O. Bwire Beng. Electrical Engineering (MUST), Deng (MIST)

Mr. Eligard Francis Beng. Electrical and Electronics (MUST)

Mr. Stuart Brown Beng. Electrical and Electronics (SAUT)

Mr. Salehe H. Ndola Beng. Electrical and Electronics (SJCET), FTC Electrical (MTC) *

Instructors

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

Mr. Novatus Kimenyuka Beng. Electrical and Electronics (MIST), Deng. Electrical and Electronics (MIST)

Mr. Emmanuel G Swetala BSc. Electrical Engineering (UDSM)

Andrew S. Mwampulo Bachelor in Electrical and Electrical Engineering (MUST).

Workshop Technicians

Mr. Furahini I Shelukindo Beng. Electrical and Electronics (MUST), Deng. Electrical and Electronics (MIST)

Mr. Joshua J. Mlay Beng. Electrical and Electronics (MUST), Deng. Electrical and Electronics (MIST)

Artisans

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

**On study leave*

*** On Secondment*

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
SBT 04101	Basics of Calculus, Logarithms and Number Systems	5
SBT 04102	Introduction to mechanics	5
SBT 04103	Introduction to technical communication	3
COT 04105	Introduction to Computer	3
Core Courses		
EET 04101	Basics of Electrical engineering	6
EET 04102	Electrical Installation Safety and Maintenance	6
EET 04103	Material Technology	6
EET 04104	Workshop Technology	7
EET 04105	Measurements and Instrumentation	5
EET 04106	Basic Electronic Engineering	6
MET 04110	Basic Technical drawing	5
TOTAL		57

Semester II

Fundamental Courses		
Code	Name	Credits
SBT 04201	Polynomials, Matrices and Binomials theorem	5
SBT 04202	Essentials of Mechanics	5
SBT 04203	Fundamentals of English grammar	2
COT 04205	Basic Computer Applications	2
Core Courses		
EET 04201	Basic Electrical Technology	6
EET 04202	Analogue Electronics Lab	6
EET 04203	Electrical and Electronic Materials	6
EET 04204	Workshop Practice	9
EET 04205	Electrical and Electronic Measurements	5
EET 04206	Analogue Electronics	5
MET 04210	Technical Drawing	5
IPT 04	Industrial Practical Training	10
TOTAL		66

B. Diploma in Electrical and Electronic Engineering (2nd Year)

Semester I

Fundamental Courses		
Code	Name	Credits
SBT 05101	LinearprogrammingandTrigonometry	6
SBT 05102	WavesandOscillations	6
SBT 05103	TechnicalCommunicationskills	2
SBT 05104	Introductiontoentrepreneurship	2
COT 05105	Relational Database	2
Core Courses		
Code	Name	Credits
EET05101	Introductiontosoftwareengineering	5
EET 05102	Basics of Digital Electronics	6
EET 05103	Domestic Installation and Maintenance	7
EET05104	PowerPlants	6
EET05105	DCGenerators	6
EET05106	Installation Testing and Commissioning	7
TOTAL		55

Semester II

Fundamental Courses		
Code	Name	Credits
SBT 05201	Calculus	6
SBT 05202	Mechanical properties and Fluid Mechanics	6
SBT 05203	Fundamental of TechnicalCommunication	2
SBT 05204	Globalization and social change	2
COT05205	Fundamentals of Computer Programming	3
Core Courses		
EET05201	AutoCAD	5
EET 05202	PowerElectronics	6
EET 05203	Electrical Power Transmission and Distribution	6
EET05204	FundamentalofAutomation	6
EET05205	StaticsACMachines	6
EET05206	DCMotors	6
EET05207	Static and Dynamic Machines Control	7
ITG 05	IndustrialPracticalTraining	10
TOTAL		71

C. Diploma in Electrical and Electronic Engineering (3rd Year)

Semester I

Fundamental Courses		
Code	Name	Credits
SBT 06101	Vectors and Coordinate Geometry	4
SBT 06102	Heat and Thermodynamics	4
SBT 06104	Entrepreneurship	4
Core Courses		
Code	Name	Credits
EED 06101	Electric Machines and Drives	8
EED 06102	Introduction to Digital Electronics	6
EED 06103	Industrial Electrical Installation	6
EED 06104	Industrial Automation	6
EED 06105	Power System Operations and Control	6
EED 06106	Basics of Power Protection	6
EED 06107	Project	10
TOTAL		60

Semester II

Fundamental Courses		
Code	Name	Credits
SBT 06201	Logic and Statics	4
SBT 06202	Organic Compounds	4
Core Courses		
EED 06201	AC Motors	6
EED 06202	Basics of Integrated Circuits	6
EED 06203	Basics of Control systems	6
EED 06204	Industrial Power Protection	6
EED 06205	Motor Rewinding	6
EED 06206	Renewable Energy	6
ETD 06207	Basic Telecommunication Engineering	6
EED 06209	Project	10
TOTAL		60

BACHELOR OF ELECTRICAL AND ELECTRONIC ENGINEERING

A. UQF 6: Bachelor of Electrical and Electronic Engineering

Semester I

Code	Title	Credits
EEB 1101	Electrical Measurements I	5
EEB 1102	Fundamentals of Electronics I	6
EEB 1103	Electrical Power I	6
EEB 1104	Electrical Machines I	6
EEB 1105	Computer Application I	4
EEB 1106	W/shop Technology & Practice I	9
EEB 1107	Technical Drawings I	4
EEB 1108	Basics of Electrical Engineering	6
EEB 1109	Electrical Installation and Safety	6
EEB 1110	Electrical Engineering Materials	6
TOTAL		58

Semester II

Code	CORE COURSES	Credits
EEB 1201	Electrical Measurements II	4
EEB 1202	Fundamentals of Electronics II	6
EEB 1203	Electrical Power II	6
EEB 1204	Electrical Machines II	6
EEB 1205	Computer Application II	5
EEB 1206	W/shop Technology & Practice II	9
EEB 1207	Technical Drawings II	4
EEB 1208	Electrical Maintenance	6
EEB 1209	Basics of Control Engineering	6
EEB IPT 1	Industrial Practical Training	10
TOTAL		62

B. UQF 7: Bachelor of Electrical and Electronic Engineering

Semester I

Fundamental Courses		
Code	Title	Credit
GSB 2101	Linear Algebra and Calculus	6
GSB 2102	Communication Skills	6
Core Courses		
EEB 2101	Electrical network analysis I	6
EEB 2102	Engineering drawing I	6

EEB 2103	Electrical Measurement and Instrumentation.	6
EEB 2104	Analogue electronics I	6
EEB 2105	Engineering electromagnetic I	6
EEB 2106	Mechanics of machines I	5
EEB 2107	Power Plant	6
EEB 2108	Introduction to engineering software	5
TOTAL		58

Semester II

Code	Title	Credit
GSB 2202	Advanced calculus	6
Sub Total₁		6
Core Courses		
Code	Title	Credit
EEB 2201	Electrical network analysis II	6
EEB 2202	Engineering drawing II	6
EEB 2203	Electrical power transmission and distribution I	7
EEB 2204	Analogue electronics II	6
EEB 2205	Engineering electromagnetic II	6
EEB 2206	Mechanics of machines II	5
EEB 2207	Electrical Engineering Materials.	4
EEB 2208	Basics of Computer systems engineering	3
EEB 2209	Object Oriented Programming	3
EEB IPT 2	Industrial Practical Training I	10
TOTAL		62

Semester III

Fundamental Courses		
Code	Title	Credit
GSB 3101	Differential Equations	6
GSB 3102	Entrepreneurship Education for Engineers 1	6
Core Courses		
EEB 3101	Electrical Machines I	7
EEB 3102	Control systems engineering I	6
EEB 3103	Electrical power transmission and distribution II	7
EEB 3104	Electrical power systems I	6
EEB 3105	Power electronics I	6
EEB 3106	Digital Electronics I	6
EEB 3107	Computer programming	5

EEB 3108	Basics of analogue telecommunication	4
TOTAL		59

Semester IV

Fundamental Courses		
Code	Title	Credit
GSB 3201	Statistics and Numerical Analysis	6
EEB 3207	Environmental Engineering	4
Core Courses		
EEB 3201	Electrical machines II	7
EEB 3202	Control systems engineering II	6
EEB 3203	Microprocessor	5
EEB 3204	Electrical power systems II	7
EEB 3205	Power electronics II	6
EEB 3206	Digital electronics II	6
EEB 3208	Basics of digital Telecommunication	4
EEB IPT 3	Industrial Practical Training II	10
TOTAL		61

C. UQF 8: Bachelor in Electrical and Electronic Engineering

Semester I

Code	Title	Credit
Fundamental Courses		
EEB 4106	Engineering economics and Management I	6
Core Courses		
EEB 4101	Electrical Machine III	8
EEB 4102	Control systems engineering III	9
EEB 4103	Electrical safety and Maintenance	8
EEB 4104	Programmable Logic Controller	7
EEB 4105	Power Electronics III	8
EEB 4107	Project I	14
TOTAL		60

Semester II

Code	Title	Credit
Fundamental Courses		
EEB 4206	Engineering economics and management II	6

EEB 4205	Laws for Engineers	6
Core Courses		
EEB 4201	Electrical drives	9
EEB 4202	Digital systems engineering	7
EEB 4203	High voltage Engineering	8
EEB 4204	Switchgear and Protection Engineering	8
EEB 4207	Project II	16
EEB 4209	Renewable Energy Technologies	6
TOTAL		60

8.1.4 THE DEPARTMENT OF MECHANICAL AND INDUSTRIAL ENGINEERING

Programmes

The Department offers four (4) Programmes:

- a) Diploma in Mechanical Engineering
- b) Diploma in Mechanical Engineering (Industrial Safety and Occupational Health)
- c) Diploma in Mechatronics Engineering
- d) 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. Engineering Materials Laboratory

8.1.4.2 LIST OF STAFF

(Head of Department)

Mr. Lekamere N. Kariwa

MSc. Renewable Energy Eng. (UDSM), B. Eng. Mechanical (DIT),
Diploma in Technical Education (Kreluu), FTC Automotive Eng.
(TCA).

Senior Lecturers

Dr. Alexander. Mtawa
PhD Mech. Eng. SMS (CPUT, SA), MSc Tech. of M/C. Eng. (SOFIA, Bulgaria), FTC Mech. Eng. (TCA)

Lecturers

Mr. Wilson Kiunsi
MEM, (UDSM), BSc. Mech. Eng. (UDSM), FTCMech (TCA)

Assistant Lecturers

Mr. Wambura Mwita
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Mr. Joel Mbwiga*
MSc Renewable Energy Eng. (UDSM) BSc Electro. Mech (UDSM)

Mr. Masoud Kamoleka*
MSc Renewable. Energy Eng. (UDSM), BSc. Electro-Mech. Eng. (UDSM)

Mr. Joram Ngilangwa
MSc Prod. Eng (UDSM), BSc. Mech. Eng. (UDSM), FTC Mech. Eng. (MTC).

Mr. Addi Palilo
MSc Prod. Eng (UDSM), PGDE Mech (UDSM), ADE Mech. (DIT), DTE (DIT), FTC Mech. Eng. (TCA).

Mr. Vicent Marwa
MSc Energy Eng. (UDSM), PGDE Mech, ADE Mech. (MIST), FTC Auto. Eng. (TCA).

Mr. Israel Komba
PGDE Mech. (UDSM), ADE Mech. (DIT), DTE Mech. (Kleruu), FTC Mech. Eng. (DIT).

Mr. Mathew Mbaule,
PGDE Mech. (UDSM), ADE Mech. (MIST), FTC Mech. Eng. (MTC).

Mr. Ballo Mwendapole
MSc Energy Eng. (UDSM), PGDE Mech. (UDSM), ADE Mech. (MIST), FTC Mech. Eng. (MTC). *

Mr. Lekamere N. Kariwa
MSc Renewable Energy Eng. (UDSM), B. Eng. Mechanical. (DIT) DTE. (Kreluu), FTC Automotive Eng. (TCA).

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. (Nelson Mandela), B. Eng. Mechanical (MIST), FTC Mechanical Eng. (MTC). *

Mr. Nyanda M. Malashi
MSc. Environmental Engineering (NM-AIST) B. Eng. Mechanical. (MUST).

Tutorial Assistants

Mr. Jonathan Lunyungu
PGDE – Mechanical. (UDSM), ADE Mech. (MTC), FTC Mech. (MTC).

*Mr. Yerima D. Gwau B.
Eng. Mechanical (MUST), DTE (Kileruu), FTC. Mech. Eng. (TCA).

Mr. Philemon X. Mutabilwa
B. Eng. Mechanical (DIT), FTC Mech. (DIT) *

Mr. Erasto S. Hebuka.
B. Eng. Mechanical. (DIT), DTE (Kileruu), FTC Mechanical (DTC),

Mr. Paulo S. Zebedayo B.
Eng. Mechanical (MUST), Diploma in Mechanical Eng. (MUST)

Mr. Widson K. Mwasenga M.Tech of alternate Hydro energy systems (IITR), B. Eng. Mechanical (MUST), FTC. Mechanical. Eng. (MTC).
 Mr. Sikudhan L. Mpuhus B. Eng. Mechanical. (MUST), Diploma in Mech. Eng. (MIST).

Instructors

Mr. Evans N. Tweve 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. Kraison M. Ntenga Diploma in Marine. Eng. (Mbegani)
 Mr. Michael T. Mwakyonya ADAE Automotive Engineering (NIT), DAE Automotive Eng. (NIT)
 Mr. Shabani H. Mdende ADAE (NIT), FTC Mech. Eng. (DIT), Adv. Vehicle Inspection, Road Safety and Accident Analysis (NIT). Teacher’s Vocational Certificate (MVTTC).
 Mr. Emmanuel S. Sakalan BSc. Mechanical Engineering (MUST) Diploma in Mechanical Eng. (ATC),

Technician

Mr. Hamisi M. Egari Diploma in Automotive Eng. (ATC).
 Mr. Nsajigwa L. Mbamba Diploma in Mechanical Eng. (MUST).
 Mr. Nelson Tewete Motor vehicle Mechanics

Artisan

Mr. Ulimboka Kamwela. Trade Test Grade I in Motor Vehicle Mechanics
 Mrs. Palestina Ndelwa. Trade Test Grade II in welding and Metal Fabrication

**On study leave*

8.1.4.3 PROGRAMME COURSES

DIPOMA IN MECHANICAL ENGINEERING

A. Diploma in Mechanical Engineering (1st Year)

Semester I

Fundamental Courses		
Code	Name	Credit
SBT 04101	Basics of Calculus, Logarithms and Number Systems	5
	Introduction to Mechanics	

SBT 04102	Introduction to Technical Communication	5
SBT 04103	Elementary Theories of Entrepreneurship Development	3
SBT 04104	Fundamentals of ICT Computer application software	3
MMT 04104		5
MMT 04105		6
Core Courses		
MET 04101	Basic Technical Drawing	5
MET 04102	Fundamentals of Engineering Materials	6
MET 04103	Introduction to Engineering Mechanics	5
MMT 04102	Fundamentals of Automotive Technology	5
MET 04105	Workshop Technology	9
EET 04108	Fundamentals of Electrical Engineering	5
TOTAL		62

Semester II

Fundamental Courses		
Code	Name	Credit
SBT 04201	Polynomials, Matrices and Binomial theorem	5
SBT 04202	Essentials of Mechanics	5
SBT 04203	Fundamentals of English Grammar	3
MMT 04207	Basic Computer programming	5
Core Courses		
MET 04201	Technical Drawing	5
MET 04202	Technology of Metals	7
MET 04203	Mechanical Engineering Science	5
MMT 04206	Vehicle Routine Maintenance	11
MET 04205	Machine tools	12
IPTM 04	Industrial Practical Training	10
TOTAL		68

B. Diploma in Mechanical Engineering (2nd Year)

Semester 1

Fundamental Courses		
Code	Name	Credit
SBT 05101	Statistics, Logarithms and Trigonometry	5
SBT 05102	Heat and Simple Harmonic Motion	5
SBT 05103	Technical Communication	2
SBT 05104	Entrepreneurship and Simple Business Projects	3

Core Courses		
ET 05101	Technical Engineering Drawing	6
MET 05102	Engineering Materials	6
MET 05103	Strength of Materials	6
MET 05104	Vehicle Transmission System	9
MET 05105	Metal Fabrication Processes	12
MET 05106	Machine Elements and Design	3
MET 05107	Thermodynamics	4
MET 05108	Engineering Measurements & Instrumentations	7
IPTM 05	Industrial Practical Training	10
TOTAL		78

Semester II

Fundamental Courses		
Code	Name	Credit
SBT 05201	Series, Vector and Calculus	5
SBT 05202	Electrolysis, Fluid mechanics and Strength of Materials	5
SBT 05203	Fundamentals of Oral and Written Technical Communication	2
Core Courses		
MET 05201	Engineering Drawing	6
MET 05204	Auto-electrical System	12
MET 05205	Metal Forming Processes	10
MET 05206	Mechanical Drives	9
MET 05207	Fluids Mechanics	3
TOTAL		52

C. Diploma in Mechanical Engineering (3rd Year)

Semester I

Fundamental Courses		
Code	Name	Credit
SBT 06101	Vector and coordinate Geometry	7
SBT 06104	Entrepreneurship	3
Core Courses		
MET 06101	Machine Drawing	5
MET 06106	Transmission Components Design	5
MET 06109	Power Generation	3
MET 06110	Fundamentals of Refrigeration	9
MET 06111	Production Technology	11
MET 06113	Environmental Engineering	3
MET 06114	Introduction to Mechatronics	6

MET 06115	Project Design	8
TOTAL		60

Semester II

Fundamental Courses		
Code	Name	Credit
SBT 06201	Logic and Statistics	7
SBT 06202	Organic compounds	7
Core Courses		
MET 06201	Computer Aided Drafting	6
MET 06206	Product Design	5
MET 06209	Power Production Components	5
MET 06210	Fundamentals of Air-conditioning	9
MET 06214	Programmable Logic Controllers	6
MET 06215	Workshop Management	3
MET 06216	Project Fabrication	7
MET 06217	Industrial Accidents and Prevention	8
TOTAL		63

C. Diploma in Mechanical Engineering [Industrial Safety and Occupational Health] (3rd Year)

Semester I

Fundamental Courses		
Code	Name	Credit
SBT 06101	Vector and coordinate Geometry	7
SBT 06104	Small Enterprise Management	3
Core Courses		
MET 06116	Industrial Accidents and Prevention	8
MET 06117	Occupational Health	8
MET 06118	Fire Prevention and Control	9
MET 06101	Machine Drawing	5
MET 06109	Power Generation	3
MET 06113	Environmental Engineering	3
MET 06115	Safety Project	8
MET 06119	Safety Maintenance	9
TOTAL		63

Semester II

Fundamental Courses		
Code	Name	Credit
SBT 06201	Logic and Statistics	7

SBT 06202	Organic compounds	7
Core Courses		
MET 06201	Computer Aided Drafting	6
MET 06215	Workshop Management	3
MET 06216	Risk Management	6
MET 06217	Industrial Safety Practices	11
MET 06218	Safety Project*	11
MET 06219	Workplace health and safety induction	11
TOTAL		65

DIPLOMA IN MECHATRONICS ENGINEERING

A. Diploma in Mechatronics Engineering (1st Year)

Semester I

Fundamental Courses		
Code	Name	Credit
SBT 04101	Basics of Calculus, Logarithms and Number Systems	5
SBT 04102	Introduction to Mechanics	5
SBT 04103	Introduction to Technical Communication	3
SBT 04104	Elementary Theories of Entrepreneurship Development	3
	Fundamentals of ICT	
MMT 04104	Computer application software	5
MMT 04105		6
Core Courses		
MET 04101	Basic Technical Drawing	5
MET 04102	Fundamentals of Engineering Materials	6
MMT 04101	Fundamentals of Engineering Mechanics	6
MMT 04102	Fundamentals of Automotive Technology	5
MMT 04103	Mechanical Workshop Practice	8
EET 04108	Fundamentals of Electrical Engineering	5
TOTAL		59

Semester II

Fundamental Courses		
Code	Name	Credit
SBT 04201	Polynomials, Matrices and Binomial theorem	5
SBT 04202	Essentials of Mechanics	5
SBT 04203	Fundamentals of English Grammar	3
MMT 04207	Basic Computer programming	5
Core Courses		

MET 04201	Technical Drawing	5
MMT 04202	Fundamentals of Electronics	8
MMT 04203	Fundamentals of auto-electric system	5
MMT 04204	Basic Mechatronics	5
MMT 04205	Electrical Workshop Practices	9
MMT 04206	Vehicle Routine Maintenance	11
IPTM 04	Industrial Practical Training	10
TOTAL		71

B. Diploma in Mechatronics Engineering (2nd Year)

Semester I

Fundamental Courses		
Code	Name	Credit
SBT 05101	Statistics, Logarithms and Trigonometry	5
SBT 05103	Technical Communication	2
SBT 05102	Heat and Simple Harmonic Motion	5
SBT 05104	Entrepreneurship and Simple Business Projects	3
Core Courses		
MET 05101	Technical Engineering Drawing	6
MET 05103	Strength of Materials	3
MMT 05101	Machine Design	8
MET 05108	Engineering Measurements & Instrumentations	6
MMT 05103	Electrical Circuit Analysis	6
MMT 05104	Electro-Mechanical Maintenance	10
MMT 05105	Industrial Electronics	9
TOTAL		63

Semester II

Fundamental Courses		
Code	Name	Credit
SBT 05201	Series, Vector and Calculus	5
SBT 05203	Fundamentals of Oral and Written Technical Communication	2
Core Courses		
MET 05201	Engineering Drawing	6
MMT 05201	Electric Machines	9
MET 05202	Programmable Logical Controller (PLC) Systems	6
MMT 05202	Computer Aided Design (CAD)	6
MMT 05203	Computer Aided Manufacturing (CAM)	8
MMT 05204	Computer Programming	6
MMT 05206	Basic Auto-Mechatronics	9
IPTM 05	Industrial Practical Training	10

TOTAL	67
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C. Diploma in Mechatronics Engineering (3rd Year)

Semester 1

Fundamental Courses		
Code	Name	Credit
SBT 06101	Vector and coordinate Geometry	7
SBT 06104	Small Enterprise Management	3
Core Courses		
MMT 06101	Sensors and Transducer Technology	10
MMT 06102	Actuator Technology	9
MMT 06103	Maintenance of Mechatronics Systems	11
MMT 06104	Basic Automation and robotics Technology	9
MMT 06105	Control Systems	6
MET 06113	Environmental Engineering	3
MMT 06106	Mini-Project	9
TOTAL		67

Semester II

Fundamental Courses		
Code	Name	Credit
SBT 06201	Logic and Statistics	7
SBT 06202	Organic compounds	7
Core Courses		
MMT 06201	Quality Control and Costing Management	6
MMT 06202	Power Electronics and Electrical Drives	10
MMT 06203	Project	16
MET 06217	Industrial Accidents and Prevention	8
TOTAL		54

BACHELOR OF MECHANICAL ENGINEERING

A. UQF 6: Bachelor of Mechanical Engineering (1st Year)

Semester 1

Code	Title	Credits
MEB 1101	Engineering Drawing I	8
MEB 1102	Engineering Materials	6

MEB 1103	Machine Elements and Design I	6
MEB 1104	Manufacturing Engineering I	15
MEB 1105	Power Production I	6
MEB 1106	Strength of Materials	6
MEB 1107	Computer Application	5
MEB 1108	Environmental Engineering	3
TOTAL		55

Semester II

Code	Title	Credits
MEB 1201	Engineering Drawing II	8
MEB 1202	Computer Aided Drafting	6
MEB 1203	Machine Elements and Design II	6
MEB 1204	Manufacturing Engineering II	15
MEB 1205	Automotive Technology	12
MEB 1206	Mechatronics	6
MEB 1207	Power Production II	6
MEB IPT 1	Industrial Practical Training	10
TOTAL		69

B. UQF 7: Bachelor of Mechanical Engineering

Semester 1

Fundamental Courses		
Code	Name	Credits
GSB 2101	Engineering Maths. I(Linear Algebra &Analysis)	6
GSB 2201	Communication Skills	3
EEB 2205	Electrical Machines	6
Sub Total Credit		15
Core Courses		
MEB 2101	Computer Aided Drafting	9
MEB 2102	Strength of Materials I	7
MEB 2103	Mechanics of Machines	6
MEB 2104	Engineering Thermodynamics	6
MEB 2105	Machine Elements and Design I	7
MEB 2106	Workshop Technology	7
TOTAL		57

Semester II

Fundamental Courses		
Code	Name	Credits

GSB 2102	Eng. Maths. II (Advanced Calculus)	6
COB 2102	Computer Networking	7
Sub Total Credit		13
Core Courses		
MEB 2207	Machine Elements and Design II	7
MEB 2208	Strength of Materials II	7
MEB 2209	Materials Technology	6
MEB 2210	Fluid Mechanics	6
MEB 2211	Industrial Management	6
IPTB 2212	Industrial Practical Training	10
Sub Total Credits		42
TOTAL		55

Semester III

Fundamental Courses		
Code	Name	Credits
GSB 3103	Eng. Maths. III (Differential Equations)	6
GSB 3131	Entrepreneurship	4
		10
Core Courses		
MEB 3113	Systems Reliability and Plant Maintenance	7
MEB 3114	Dynamics of Mechanical Structures	7
MEB 3115	Finance and Human Resources Management	6
MEB 3116	Industrial energy Management	6
MEB 3117	Metal cutting and Machine tools I	7
MEPR 3118	Project I	11
Sub Total Credits		43
TOTAL		53

Semester IV

Fundamental Courses		
Code	Name	Credits
GSB 3204	Eng. Maths. IV (Numerical and Statistics Analysis)	6
Total Credit		6
Core Courses		
MEB 3219	Industrial Automation	6

MEB 3220	Engineering Design	6
MEB 3221	Computer Aided Engineering (CAE)	9
MEB 3222	Engineering Operations Management	6
MEB 3223	Heat Transfer	7
MEB 3224	Metal Cutting and Machine Tools II	7
MEPR3225	Project II	11
IPT II 3226	Industrial Practical Training	10
Sub Total Credits		62
TOTAL		68

C. UQF 8: Bachelor of Mechanical Engineering

Semester 1

Core Courses		
Code	Name	Credits
MEB 4101	Control Systems Engineering	4
MEB 4102	Fluid Power and Control	6
MEB 4103	Power Plants	6
MEB 4104	Material Handling Design	6
MEB 4105	Turbo Machinery	6
MEB 4106	Production Engineering	4
MEB 4107	Refrigeration Machine and Air conditioning III	6
MEB 4108	Engine Design Technology I	6
SPR 8109	Senior Project I	18
TOTAL CREDITS		62

Semester II

Core Courses		
Code	Name	Credits
MEB 4210	Quality Assurance and Control	4
MEB 4211	Renewable Energy Technologies	6
MEB 4212	Engineering Ethics and Professional Conduct.	4
MEB 4213	Automation and Robotics	6
MEB 4214	Engine Design Technology II	6
MEB 4215	Foundry Technology	4
MEB 4216	Refrigeration and Air Conditioning IV	6
MEB 4217	Computer Aided Manufacturing (CAM)	6
SPR 8218	Senior Project II	18
GSB8206	Entrepreneurship for Engineers	6
TOTAL		66

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)**

Mr. Edmund Mutayoba MSc. Water Resources Management (UDSM), BSc. Environmental Science (SUA)

Professors

Prof. Osmund Kaunde PhD (Leeds), MSc. (Leeds), BSc. (Eng) (UDSM).

Lecturers:

Mr. Edmund Mutayoba MSc. Water Resources Management (UDSM), BSc. Environmental Science (SUA) *

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

Mr. Dickson P. Ndalila MSc. Energy Eng. (UDSM), BSc. Chemical Proc. Eng. (UDSM).

8.2 COLLEGE OF ARCHITECTURE AND CONSTRUCTION TECHNOLOGY (CoACT)**8.2.1 DEPARTMENT OF ARCHITECTURE AND ART DESIGN****Programmes**

The department offers two (2) programmes:

- i. Diploma in Architecture
- ii. Bachelor of Technology in Architecture

8.2.1.1 LIST OF STAFF**(Head of Department)**

Mr. Kassim A. Choga, M. Arch. (Ardhi Univ.), PGD Arch (Ardhi University.) Advanced Diploma Arch. (Ardhi Institute).

Lecturers

Dr. Idasi Kiondo Mweteni PhD in Arch. (ARU), MSc Eng. (Theory of Arch & History), AD Arch. (ArdhiInst), Tech. Ed. (Morogoro).

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

Assistant lecturers

Mr. Sweve P. Malifa, M. Arch (ARU), PGD in Urban Design & MGT. (UDSM), Adv. Dip. Arch. (ArdhiInst), Tech. Ed. (Morogoro).

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.MbasaSegelela Msc. Housing (ARU), B. Arch (UDSM)

*Mr. Justine Katabaro M. Eng. In Arch. (ChongQing Univ. – China), B. Arch. (Tianjin Univ. – China),

Juma N. Julius MBA in Marketing (UoI), B. Arch (UDSM), Dip. Ed (KLERRUU)

Benjamin M. John B. Arch (UDSM), MSc. Housing (Ardhi University)

Arnold K. Kashula - B. Arch (UDSM), MSc. Housing (Ardhi University)

*Benson V. Karumuna B. Arch (ARU), M. Eng. Arch. (Chongqing University)

Tutorial Assistants

Mr.Lameck G. Mollel B. Arch. (ARU)

Mr. Gasper Massawe B. Tech. Arch. (MIST), Dipl. Arch. (MIST).

*Ibrahim M. Charles B. Arch (UDSM)

*Shija P. Ng'wandu B. Tech-Arch (MUST)

Oscar J. Shiganza BSc. Civil (ST. JOSEPH UNIVERSITY)

Marco D. Nassary B. Tech-Arch (MIST)

Frank P. Mnyanyi B.Tech-Arch (MUST), TECH-ARCH (MTC).

*Rosemary E. Kavishe BSc. Civil (ST. JOSEPH UNIVERSITY)

Kamugisha J. Kajumulo B. Arch (UDSM)

Blasius K. Venance B. Tech-Arch (MUST), Dip. Arch (MIST)

Moses L. Kivuyo B. Tech-Arch (MUST), Dip. Arch (MIST)

Godfrey B. Sosthenes B. Tech-Arch (MUST), Dip. Civil (MIST)

Instructors

*Gabriel N. Nicomedi BSc. Landscape Arch (ARU)

Elvis F. Lyimo BSc. Landscape Arch (ARU)

Jonas.E. Mwamasage BTA (MUST), Dip-Arch (MUST)

Technicians

Christopher J. Almasi FTC-Arch (MTC)

**On study leave*

8.2.1.2 DIPLOMA COURSES

DIPLOMA IN ARCHITECTURE

A. Diploma in Architecture (1st Year)

Semester I

Fundamental Courses		
Code	Name	Credit
SBT 04101	Basics of Calculus, Logarithms and Number systems	5
SBT 04102	Introduction to Mechanics	5
SBT 04103	Introduction to Technical Communication	2
COT04105	Basic computer application I	2
Core Courses		
ART04108	Introduction to Geometrics	6
ART04102	Force Systems & Properties of Sections	5
ART04103	Water supply in building	5
ART04104	Building elements	7
ART04101	Geometrical drawing and freehand	13
ART04105	Masonry and timber materials	5
TOTAL		55

Semester II

Fundamental Courses		
Code	Name	Credit
SBT 04201	Polynomials, Matrices and Binomial theorem	5

SBT 04202	Essentials of Mechanics	5
SBT04203	Fundamentals of English Grammar	2
COT 04210	BasicComputer application II	2
Core Courses		
ART04207	Basics of Auto CAD	4
ART04209	Elasticity and Analysis of Structure	4
ART04210	Waste disposal systems in buildings	4
ART04206	Architectural Design Principles	6
ART04211	Site organization	6
ART04212	Architectural graphics	12
ART04213	Cement and paints Materials	5
ART04214	Basic substructure and superstructure construction	4
ART04215	Practical Site Works	10
TOTAL		69

B. Diploma in Architecture (2nd Year)

Semester I

Fundamental Courses		
Code	Name	Credit
SBT 05101	Linear programming and Trigonometry	6
SBT 05102	Waves and Oscillations	6
SBT 05103	Technical Communication skills	2
SBT 05104	Entrepreneurship and development	2
COT05105	Basic computer Application III	2
Core Courses		
ART05101	Basics of Structural Design	5
ART05103	Metal, Plastics and Glass Technology	5
ART05107	Arch CAD Application in Draughting	4
ART05105	Design of Single Storey Buildings	10
ART05108	Electrical Systems in Buildings	4
ART05110	Vertical communication in Buildings	4
ART05112	Laws, Ethical Conducts & Liabilities	4
ART05114	Pre-Historic Ages & Ancient Architecture	6
ART05116	Space & Ordering Principles	5
TOTAL		65

Semester II

Fundamental Courses		

Code	Name	Credits
SBT 05201	Calculus	6
SBT 05202	Mechanical properties and fluid mechanics	6
SBT 05203	Fundamentals of technical communication	2
SBT 05204	Entrepreneurship and intellectual property	2
COT05205	Basic Computer Applications IV	2
Code	Core Courses	

ART05202	Concrete Reinforcement Technology	6
ART05204	Finishes Building Materials	6
ART05206	Design of Multi – storey Buildings	10
ART05209	Mechanical Movement & Ventilation System in Building	4
ART05211	Building Components	6
ART05213	Architectural Office & Registration Process	4
ART05215	Modern and Postmodern Architecture	6
ART05217	Architectural Forms & Theories	5
ART05218	Practical Office Works	10
TOTAL		75

C. Diploma in Architecture (3rd Year)

Semester I

Fundamental Courses		
Code	Name	Credits
SBT 06101	Vector and coordinate Geometry	7
SBT 06102	Heat and Thermodynamics	7
SBT 06104	Entrepreneurship	3
COT 06105	Basic Computer Applications V	2
	TOTAL	19
Core Courses		
ART06101	Steel and Timber Design	8
ART06102	Openings, Framed and Fire Safety.	7
ART06105	Public Building Scheme Design	16
ART06107	Climatic Design	8
ART06109	Project Planning, Operation & Association	6

TOTAL	63
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Semester II

Fundamental Courses		
Code	Name	Credits
SBT 06201	Logic and Statistics	7
SBT 06202	Organic compounds	7
TOTAL		14
Code	Core Courses	
ART06203	Fittings	7
ART06204	Urban Development and Housing	8
ART06206	Public Building Working Drawings	16
ART06208	Thermal Design, Day lighting and Sonic Environment	8
ART06210	Cost Estimates and Tendering	6
	TOTAL	45

BACHELOR OF TECHNOLOGY IN ARCHITECTURE**A. UQF 6 - Bachelor of Technology in Architecture****Semester 1**

Code	Name	Credits
ARB1101	Computer Aided Design I	8
ARB1103	Construction Surveying	6
ARB1104	Structural Mechanics	5
ARB1105	History of Architecture	5
ARB1108	Basics of Architectural Design	6
ARB1110	Architectural Draughting	13
ARB1112	Professional Practice and Management I	6
ARB1114	Building Materials I	5
ARB1116	Architectural Structures & Building Construction I	6
	TOTAL	60

Semester II

Code	Name	Credits
ARB1202	Computer Aided Design II	6
ARB1206	History of Architecture	5

ARB1207	Structural Design	6
ARB1209	Principles of Architectural Design	5
ARB1213	Professional Practice and Management II	5
ARB1215	Building Material I	5
ARB1211	Architectural Draughting II	15
ARB1217	Architectural Structures & Building Construction II	5
ARB 162	Field Practical Training	10
TOTAL		62

B. UQF 7 - Bachelor of Technology in Architecture

Semester I

Fundamental Courses		
Code	Name	Credits
GSB2101	Linear Algebra and calculus	6
GSB2105	Communication skills	6
GSB2105	Computer Programming I	4
Core Courses		
ARB2101	Design theories I	4
ARB2105	Development of Architecture	4
ARB2107	Service & installation I	3
ARB2108	Building Structures I	3
ARB2109	Construction Detailing I	3
ARB2111	Design studio I	8
ARB2113	Building Renovation and Maintenance I	3
ARB2114	Building law and Regulations I	3
ARB2115	Construction Economics I	3
ARB2116	Urban Design I	3
ARB2119	Material Science I	5
ARB2110	Building Construction & Technology I	4
TOTAL		62

Semester II

Fundamental Courses		
Code	Name	Credits
GSB2202	Advanced Calculus	6
GSB2204	Introduction to Management Skills I	6
GSB2205	Computer Programming II	6
Core Courses		

ARB2201	Design theories II	3
ARB2202	Advanced CAD I	3
ARB2206	Product manufacture Technology I	6
ARB2207	Service & installation II	3
ARB2208	Building Structures II	3
ARB2209	Construction Detailing II	3
ARB2211	Design studio II	8
ARB2217	Model making I	3
ARB2213	Building Renovation and Maintenance II	2
ARB2214	Building law and Regulations II	2
ARB2215	Construction Economics II	3
ARB2212	Material Science II	5
ARB2210	Building Construction & Technology II	3
ARBI72	Industrial Practical Training	10
TOTAL		75

Semester III

Fundamental Courses		
Code	Name	Credits
GSB3103	Differential Equations	6
GSB3104	Introduction to Management Skills I	6
Core Courses		
ARB3102	Advanced CAD II	3
ARB3103	Simulation Technology I	3
ARB3104	Environmental Control & Sustainability	3
ARB3106	Product manufacture Technology II	5
ARB3109	Construction Detailing III	3
ARB3110	Building Construction & Technology III	3
ARB3111	Design studio III	8
ARB3112	Building Renovation and Maintenance III	3
ARB3117	Model Making I	3
ARB3119	Research Methods	3
ARB3120	Project I	11
TOTAL		60

Semester IV

Fundamental Courses		
Code	Name	Credits
GSB3204	Statistics & Numerical Analysis	6
GSB3206	Entrepreneurship Education	6
Core Courses		
ARB3202	Advanced CAD III	4
ARB3203	Simulation Technology II	4
ARB3204	Environmental Control & Sustainability II	3
ARB3206	Product manufacture Technology III	5
ARB3214	Building Law & Regulations III	3
ARB3220	Project II	14
ARB3218	Architectural Practice	4
ARB3274	Industrial Practical Training	10
TOTAL		59

C. UQF 8 – Bachelor of Technology in Architecture

Semester I

Core Courses		
Code	Name	Credits
ARB4122	Design Principles	4
ARB4123	Structural Analysis and Design	6
ARB4124	Alternative energy design	6
ARB4107	Service & installation IV	4
ARB4106	Product manufacture technology IV	6
ARB4125	Disaster management II	6
ARB4118	Architectural practice III	6
ARB4126	Dissertation part I	24
TOTAL		62

Semester II

Core Courses		
Code	Name	Credits
ARB4207	Architectural Practice IV	4
ARB4208	Dissertation Part II	54

TOTAL		58

8.1.5 DEPARTMENT OF CONSTRUCTION MANAGEMENT AND TECHNOLOGY

Programme

The Department is in the process of offering Diploma and Bachelor degree programmes

8.1.5.1 LIST OF STAFF

(Head of Department)

Dr. Yazidi H. Mwishwa MEM (UDSM), PGD (UDSM), ADE Civil Eng. (DIT),
FTC Civil Eng. (TCA),

Lecturers

Dr. Yazidi H. Mwishwa, MEM (UDSM), PGD (UDSM), ADE Civil Eng. (DIT),
FTC Civil Eng. (TCA),

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

Mr. Ramadhani S. Tekka MEM (UDSM), BSc Geomatics (ARU),

Assistant Lecturers

Mr. Japhary Shengeza MSc. Construction Economics & Management (ARU),
Bsc, Building Economics (UDSM)

Mr. Moses Moyo MSc. Mat. Sc. & Eng. Nelson Mandela (NMAIST), B. Sc.
Civil (UDSM)

Mr. Yonna Justin, MSc. Constr. Econ. & MGT. (ARU) B.ScBE (UDSM). *
Mr. Viviano Fyito MSc. In Urban Plan. & MGT (ARU), PGD in Urban Plan &
MGT. (UDSM), AD BE (ArdhiInst), Dip. Tech. Ed. (Dar
Tech. Coll.)

Mr. Ally A. Ally Msc. Const. Mangt (ARU), BSc. BE (UDSM), Dip-Ed
(ALHARAMAIN)

Tutorial Assistants

Mr. Hubert Bazil Kimboi BSc. Building Economics (ARU)

*On study leave

**Secondment

8.3 COLLEGE OF INFORMATION AND COMMUNICATION TECHNOLOGY (CoICT)**8.3.1 DEPARTMENT OF INFORMATION SYSTEMS AND TECHNOLOGY****Programmes**

The Department offers one (1) Programme:

- i. Diploma 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)*

Mr. Phesto P. Namayala MSc in Comp (HU, UK), BSc with Comp (UDSM)

Assistant lecturer

Mr. Justin A. Mwakatobe MSc. (PWR, Poland)
 Mr. Phesto P. Namayala MSc. in Comp (HU, UK), BSc with Comp (UDSM)
 Mr. Nabahani B. Hamadi MSc. (KHNURE, Ukraine)
 Mr. Francis Ruambo MSc. (HU, Sweden), MSc (SPSU, RUSSIA) *
 Mr. Nabahani B. Hamadi MSc. (KHNURE, Ukraine) *
 Mr. Peter L. Kambosha

Tutorial Assistant

Mr. Edwin P. Nchia Advanced Diploma (IFM)
 Mr. Daniel I. Bynite FTC (TCA); B. Eng. & Technology (DSTU) Russian Federation *
 Mr. Tumain Mbinda BSc. Computer Science (St. Joseph)
 *On study leave

8.3.1.3 PROGRAMME COURSES**INFORMATION AND COMMUNICATION TECHNOLOGY****A. Diploma in Information and Communication Technology (1st Year)****Semester 1****Fundamental Courses**

Fundamental Courses		
Code	Name	Credit

CIT 04105	Basic Communication Skills	05
CIT 04106	Discrete Mathematics	07
Core Courses		
CIT 04101	Computer Fundamentals	12
CIT 04102	Microcomputer Applications	12
CIT 04103	Fundamentals of Computer Networks.	12
CIT 04104	Basics of Electronics	12
TOTAL		60

Semester II

Core Courses		
Code	Name	Credit
CIT 04201	Computer Maintenance and Repair	12
CIT 04202	Internet Essentials and Web Technology	12
CIT 04203	Introduction to High level Programming	12
CIT 04204	Introduction to Entrepreneurship	06
CIT 04205	IT Safety and Management Practices	08
CIT 04206	Industrial practical Training	10
TOTAL		60

B. Diploma in Information and Communication Technology (2nd Year)

Semester I

Fundamental Courses		
Code	Name	Credit
CIT 05105	Communication skills	03
Core Courses		
CIT 05101	Operating Systems	12
CIT 05102	Computer Network Design	12
CIT 05103	Object-Oriented Programming Basics	08
CIT 05104	Advanced Computer Maintenance and Troubleshooting	12
TOTAL		47

Semester II

Core Courses		
Code	Name	Credit
CIT 05201	Introduction to Principles of Management	07
CIT 05202	Business Management	12
CIT 05203	Web Design	12
CIT 05204	Computer Network Administration	11
CIT 05205	Introduction to Entrepreneurship	08
CIT 05206	Computer Architecture	11
CIT 05207	Industrial Practical Training	12
TOTAL		73

C. Diploma in Information and Communication Technology (3rd Year)

Semester I

Fundamental Courses		
Code	Name	Credit
SBT 06104	Entrepreneurship	03
SBT 06103	Business Communication skills	02
Core Courses		
CID 06101	Object Oriented Programming in JAVA	08
CID 06102	Management Information Systems	10
CID 06103	IT Security	08
CID 06104	E-Commerce	08
CID 06105	Network Management	09
CID 06106	Research Methodology	06
CID 06108	Geographical Information System	04
CID 06107	Project I	10
TOTAL		68

Semester II

Fundamental Courses		
Code	Name	Credit

SBT 06201	Logic and Statistics	07
SBT 06202	Business Management.	05
Core Courses		
CID 06202	Internet and Web Development Technology	04
CID 06205	System Analysis and Design	06
CID 06203	Project Management	09
CID 06204	Law of Computing	04
CID 06201	Website Design and Hosting	07
CID 06207	Project II	10
TOTAL		52

8.3.2 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Programmes

The Department offers three (3) Programmes:

- a) Diploma in Computer Engineering
- b) Diploma in Computer Science
- c) Bachelor of Computer Engineering

8.3.2.1 LABORATORIES AND WORKSHOPS

- iii. Computer Maintenance and Repair Laboratory
- iv. Two Computer Software Application Laboratories

8.3.2.2 LIST OF STAFF

(Head of Department)

Mr. Mrindoko R Nicholaus MSc. EEIT (UDSM), B.Eng (DIT), FTC (MIST)

Senior Lecturers

Dr. Lusajo M. Minga PhD Mngt. Sc. & Eng. (HIT, China), M.Sc. Econ. (DPI, USSR) FTC (ATC), Teach. Cert. (Morogoro).

Lecturers

Dr. Julius Rwakarambi PhD Comp. Sc. (SJTU, China), MSc. Comp. Sc. (SHU, China)

Mr. Mrindoko R Nicholaus MSc. EEIT (UDSM), B.Eng (DIT), FTC (MIST) BSc. Ed. (UDSM)

Assistant Lecturers

Mr. Sadiki L. Kusyama MSc. ((NM-AIST, Tanzania) B.Eng (DIT), FTC (DIT)*

Mr. Stanley Leonard MSc (UDOM), BSc Comp. Eng. (DIT)

Mr. Godfrey Kayombo MSc (UDOM), BSc Comp. Eng. (DIT)

Mr. Aziz Singa

MSc (UDOM), BSc Comp. Eng. (SJUIT) *

Tutorial Assistants

Mr. Pascal J. Yamakil

MSc. EEIT (UDSM), Advanced Diploma (IAA)

Mr. Richard C. Rajabu

BSc. (UDSM)*

Mr. Noel Y. Chintelele

MSc. TE (UDOM), B. Eng (DIT)

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Mr. LusunguP.Wangilisasi

BSc.Eng (UDSM)

Mr. NyamwagaM.Kaare

BSc Computer Science (St. Joseph)

Mr. BestoneLufyagila

BSc. Eng (UDSM)

Mr. Alexandra Makanta

MSc. Comp ()

Instructors

Mr.Liberatus M. Sago

B.Sc. Eng (UDSM)

Mr.Enlai N. Watson

B. Eng (DIT), FTC (DIT)

Ms.Rahel A Mtali

FTC in Comp Eng (DIT) *

Technician

Mr.Riziki Pangahela

Diploma (TPSC-Magogoni)

Mr.George R.Kitula

Diploma in Comp.Eng (MUST)

On study leave*8.3.2.3 COMPUTER SCIENCE****DIPLOMA IN COMPUTER SCIENCE****A. Diploma in Computer Science (1st year)****Semester 1**

Fundamental Courses		
Code	Name	Credit
CST 04101	Basic Communication Skills	06
CST 04102	Elementary Mathematics	06
Core Courses		
CST 04103	Computer Fundamentals	12
CST 04104	Microcomputer Applications	12
CST 04105	Programming Concepts.	12
CST 04106	Basics of Electronics	12

TOTAL	48
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Semester II

Core Courses		
Code	Name	Credit
CST 04201	Basics of Computer Maintenance and Troubleshooting	10
CST 04202	Internet Essentials and Web Technology	10
CST 04203	Computer Networks Fundamentals.	10
CST 04204	Basics of Mobile Application	08
CST 04205	Multimedia Technologies	10
CST 04206	Industrial practical Training	12
TOTAL		60

B. Diploma in Computer Science (2nd year)**Semester I**

Fundamental Courses		
Code	Name	Credit
CST 05101	Business Communication skills	03
Core Courses		
CST 05102	Operating Systems	10
CST 05103	Computer Network Design	12
CST 05104	Computer Maintenance and Troubleshooting	12
CST 05105	Object-Oriented Programming	12
TOTAL		49

Semester II

Core Courses		
Code	Name	Credit
CST 05201	Web Design and Hosting	12
CST 05202	Basics of Principles of Management	05
CST 05203	Mobile Application Development	12
CST 05204	Computer Network Administration	11
CST 05205	Business Management	08
CST 05206	Computer Architecture	11
CST 05207	Industrial Practical Training (IPT)	12
TOTAL		71

C. Diploma in Computer Science (3rd Year)**Semester I**

Fundamental Courses		
Code	Name	Credit
SBT 06101	Introduction to Computer Science Mathematics I	04
SBT 06103	Communication Skills	04
SBT 06104	Entrepreneurship and Development	04
Core Courses		
CSD 06101	Introduction to JAVA	06
CSD 06105	Software Engineering	06
CSD 06102	Database Concepts	08
CSD 06104	Website Design and Hosting	08
CSD 06103	Research methodology	06
CSD 06108	Project I	10

TOTAL	56
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Semester II

Fundamental Courses		
Code	Name	Credit
SBT 06201	Introduction to computer science mathematics II	04
Core Courses		
CSD 06201	Advanced JAVA	11
CSD 06202	Design and Implementation of Database	11
CSD 06204	IT security	09
CSD 06206	Introduction to Geographical Information System Management Information Systems	08
CSD 06207	Project II	09
CSD 06208		10
TOTAL		62

DIPLOMA IN COMPUTER ENGINEERING

A. Diploma in Computer Engineering (1st Year)

Semester I

Fundamental Courses		
Code	Name	Credit
SBT 04101	Advance Mathematics I	05
SBT 04102	Mechanics I	05
SBT 04103	Introduction to technical communication	02
Core Courses		
CET 04101	Computer application software I	06
EET 04101	Electrical engineering I	04
MET 04109	Workshop technology	06
CET 04102	Computer Systems Maintenance and Repair I	10
CET 04103	Computer Network I	06
MET 04110	Technical Drawing	03
CET 04104	Social Ethics	05
TOTAL		52

Semester II

Fundamental Courses		
Code	Name	Credit
SBT 04203	Fundamentals of English grammar and technical report writing	02
SBT 04201	Advance Mathematics II	05
SBT 04202	Mechanics II	05
Core Courses		
CET 04204	Introduction to computer architecture	08
CET 04201	Computer application software II	06
CET 04205	Introduction to e-commerce	06
CET 04207	Computer programming I	07
CET 04208	Basic electronics	05
EET 04201	Electrical engineering II	04
CET 04202	Computer Systems Maintenance and Repair II	10
CET 04209	Industrial practical Training	10
TOTAL		68

B. Diploma in Computer Engineering (2nd Year)

Semester I

Fundamental Courses		
Code	Name	Credit
SBT 05104	Introduction to entrepreneurship	3
SBT 05103	Technical Communication skills	3
SBT 05102	Waves and Oscillations	6
SBT 05101	Advanced Mathematics III	6
Core Courses		
CET 05101	Object Oriented Programming	8
CET 05102	Measurements and Instrumentation	4
CET 05103	Digital Electronics	6
CET 05104	Data Communications	4
CET 05106	Electronics Circuits	6
CET 05107	Operating Systems	6
CET 05108	Introduction to Database	7
TOTAL		57

Semester II

Fundamental Courses		
Code	Name	Credit
SBT 05201	Advanced Mathematics IV	6
SBT 05202	Mechanical properties and Fluid mechanics.	6
SBT 05203	Fundamentals of Technical Communication	3
SBT 05204	Globalization and Social Change	3
Core Courses		
CET 05201	Data Structure and File Handling	8
CET 05202	Computer Peripherals Maintenance and Repair	5
CET 05203	Microprocessor Technology	5
CET 05204	Sequential Circuits	6
CET 05205	Network Management	9
CET 05206	Electrical Installation and Safety Regulations	3
CET 05207	System Analysis and Design	7
CET 05208	Industrial Practical Training	10
TOTAL		71

C. Diploma in Computer Engineering (3rd Year)

Semester I

Fundamental Courses		
Code	Name	Credit
SBT 06101	Vector and coordinate Geometry	7
SBT 06102	Heat and Thermodynamics	7
SBT 06104	Entrepreneurship	4
Core Courses		
Code	Name	Credit
CED 06101	Introduction to Software Engineering	6
CED 06105	Introduction to Multimedia	6
CED 06102	Introduction to Embedded systems	8
CED 06104	Introduction to Automation and Control	8
CED 06106	Advanced Electronics	8
CED 06107	Project I	10
TOTAL		66

Semester II

Fundamental Courses		
Code	Name	Credit
SBT 06201	Logic and Statistics	7
SBT 06202	Organic compounds	9
Core Courses		
Code	Name	Credit
CED 06201	Website Design and Hosting	7
CED 06202	Signal and Data Processing circuits	8
CED 06203	Multimedia Application Production	8
CED 06204	Industrial Automation System	9
CED 06208	Project II	10
TOTAL		58

BACHELOR OF COMPUTER ENGINEERING

A. UQF 6: Bachelor of Computer Engineering

Semester I

Code	Name	Credits
Fundamental Courses		
EEB 1106	Basic Electronics	5
EEB 1108	Basic of Electrical Engineering	5
COB 1103	Workshop Technology	5
COB 1104	Engineering drawing	4
Core Courses		
COB 1101	Computer Systems Maintenance and Repair	10
COB 1102	Computer Network	10
COB 1105	Computer Application	3
EEB 1101	Computer Programming	5
MET 1205	Microprocessor Technology	5
COB 1106	Operating System	5
TOTAL		57

Semester II

Code	Name	Credits
Fundamental Courses		
COB 1205	Data Communication	5
COB 1206	Sequential Circuit	5
COB 1207	Introduction to Automation and control	8

Core Courses		
COB 1201	Introduction to Software Engineering	6
COB 1202	Introduction to Multimedia	6
COB 1210	Network Management	8
COB 1204	Introduction to system Analysis and Design	8
COB 1209	Web design and Hosting	6
COB IPT 1	Industrial Practical Training	10
TOTAL		62

B. UQF 7: Bachelor of Computer Engineering

Semester I

Fundamental Courses		
Code	Name	Credits
EEB 2120	Electrical Fundamentals	6
GMB 2111	Linear Algebra and Advanced Calculus	12
MEB 2113	Engineering Mechanics	9
GCB 2111	Communication Skills	12
Core Courses		
COB 2111	Digital Systems	12
ETB 2116	Introduction to Communication Systems	12
ETB 2115	Electronic Devices	9
COB 2114	Data Structure and Computer Programming	12
TOTAL		84

Semester II

Fundamental Courses		
Code	Name	Credits
EEB 2216	Measurements and Instrumentation	9
MEB 2226	Industrial Management	6
MEB 2223	Mechanics of Machines	9
GMB 2221	Calculus	12
Core Courses		
ETB 2227	Communication Systems	6
ETB 2211	Analogue Electronics	12
COB 2223	Computer Networks	12
COB 2224	Microprocessor	12
COB 2225	Computer System Engineering	12
COB IPT 2231	Industrial Practical Training (IPT)	12
TOTAL		102

Semester III

Fundamental Courses		
Code	Name	
GMB 3131	Finance and Human Resource Management	6
GMB 3131	Statistics and Numerical Analysis	12
Core Courses		
ETB 3122	Electronic Circuits	12
ETB 3118	Electronic Fabrication	12
COB 3133	Data base Systems	12
COB 3134	Introduction to Control System	12
COB 3135	Computer System Design	12
COB 3136	Operating Systems	12
TOTAL		90

Semester IV

Code	Name	Credits
MEB 3246	Engineering Operations Management	6
GMB 3242	Statistics and Numerical Analysis	12
Core Courses		
COB 3241	Signal Processing	6
COB 3242	Object Oriented Programming	12
COB 3243	Control System Design	12
COB 3244	Multimedia Application Production	12
COB 3245	Industrial Automation	12
COB 3246	System Analysis and Design	12
COB IPT 3242	Industrial Practical Training (IPT) III	12
TOTAL		96

C. UQF 8: Bachelor of Computer Engineering

Semester I

Code	Name	Credits
COB 4111	Internet Technologies	6
COB 4112	Computer Graphics	6
COB 4113	Robotics Intelligent System	6
COB 4114	Real Time System Design	6
COB 4115	Expert System and Interactive multimedia	6
COB 4116	Software Engineering	6
ME 416	Law of Engineers	6
COB 4117	Senior Project 1	18

TOTAL	60
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Semester II

Code	Name	
COB 4221	User Interface Design	6
COB 4222	Computer Networks and Telegraphic Engineering	12
COB 4223	Design Embedded Processor Systems	6
COB 4224	Industrial Robotics	12
MEB 4226	Entrepreneurship for Engineers	6
COB 4227	Senior Project 2	18
TOTAL		60

8.3.3 DEPARTMENT OF ELECTRICAL AND TELECOMMUNICATION ENGINEERING**Programmes**

The Department offers one (1) Programme:

- a) Diploma in Electronic and Telecommunication Engineering

8.3.3.1 LABORATORIES AND WORKSHOPS

- i. Electrical Machines Laboratory
- ii. Measurements Laboratory
- iii. Electronics and Basis of Electrical Engineering Laboratory
- iv. Electric Drives Laboratory
- v. High Voltage Engineering Laboratory
- vi. Electrical Installation workshop

8.3.3.2 LIST OF STAFF

(Head of Department)

Mr. Nicholaus G. Moyo

MSc. Elect. Eng. (UDSM), ADE (Elect. Eng. (DIT), FTC (ATC)

Professors

Prof. Aloys Mvuma

PhD. in Systems Engineering (Hiroshima University, Japan), MSc. in Information Science (Shimane University, Japan), BSc.in Electrical Engineering (UDSM)

Prof. Justinian Rutembeka Anatory

Ph.D. in telecommunications engineering (UDSM), M.Sc. in electrical engineering (UDSM) and B.Sc. and in electrical engineering (UDSM)

Lecturers

Dr.Juma S. Ally

PhD In Information and Communication engineering (University of Science and Technology of China) MSc in Information and Communication Systems (Huazhong University) B.Eng in Telecommunication Engineering (Huazhong University – CHINA)

Assistant LecturersMr.Justine G. Mbilinyi
(UDSM) *

MSc. Electronics Eng& IT (UDSM), BSc. Electrical Eng

Mr. Bonaventura Matuntera Siko

MSc Elect Eng. (Varma High Institute of Mechanical and Electrical Engineering-Bulgaria; FTC in Electronics & Telecommunication (DTC)

Mr. Daniel A. Sinkonde

MSc.ICSE (NM-AIST, TZ).B.Eng ECE (St. JCET); FTC in Mech Eng. (MTC). *

Charles Okanda Nyatega

M.Eng. (Tianjin University – CHINA). B.Eng in Telecom Eng (Huazhong University of Science and Technology, Wuhan China); FTC in Electrical Eng (MTC)*

Mr. GeofreyKatema

ME Signal &Infor. Processing (TUTE– CHINA), B. Eng. ECE (St. JCET)

Mr. Zacharia B. Mzurikwao

ME Signal &Infor. Processing (TUTE– CHINA), B. Eng. EEE (St. JCET)

Mr. Emmanuel S. Mahenge

MSc. Telecom Eng (UDOM), B Eng. Electronics and Telecom (DIT)

Ms. Catherine Protas

MSc. Electronics Eng& IT (UDSM, Beng. Electronics and Communication (SJCET)

Ms. Lilian Kawala

MSc. Telecommunication (China), BSc in Electrical and Electronics (MUST), Dip in Electrical and Electronics (MIST)

Tutorial assistant

Mr.Mgeni Makambi

BSc. Telecommunication Engineering (UDSM)*

Instructors I

Mr.Monte S. Kayoka

MSc Comp & Communication (Waseda – Japan) Beng.
Electrical Engineering (DIT), FTC Electrical (MTC)**Instructor II**

Mr.Godwin B. Tunze

BSc. Telecommunication Engineering (UDSM)

Ms.Susan Mboje

Beng. Electronics and Communication (SJCET)*

Mr. Exaud Tarimo

BSc. Telecommunication Engineering (UDSM)*

Ms. Suzan M Misholi

MSc. Information and Communication Science and
Engineering (NM-AIST), Beng. Electronics and Telecom
(DIT)**On study leave***8.3.3.3 PROGRAMME COURSES****DIPLOMA IN ELECTRONIC AND TELECOMMUNICATION ENGINEERING****A. Diploma in Electronic and Telecommunication Engineering (1st Year)****Semester I**

Fundamental Courses		
Code	Name	Credits
SBT 04101	Basics of Calculus, Logarithms and Number Systems	5
SBT 04102	Introduction to mechanics	5
SBT 04103	Introduction to technical communication	3
COT 04105	Introduction to Computer	3
Core Courses		
ETT 04101	Basics of Electrical engineering	7
ETT 04102	Materials Technology	6
ETT 04103	Workshop Technology	9
ETT 04104	Measurements and Instrumentation	7
ETT 04105	Basic Electronic Engineering	7
MET04110	Basic Technical drawing	7
TOTAL		59

Semester I

Fundamental Courses		
Code	Name	Credits
SBT 04201	Polynomials, Matrices and Binomials theorem	5
SBT 04202	Essentials of Mechanics	5
SBT 04203	Fundamentals of English grammar	2
COT04205	Basic Computer Applications	2
Core Courses		
ETT 04201	Basic electrical Technology	7
ETT 04202	Analogue Electronics Lab	5
ETT 04203	Electrical and Electronic Materials	6
ETT 04204	Basics of Telecommunication	7
ETT 04205	Electrical and Electronic Measurements	7
ETT 04206	Analogue Electronics	7
IPT 04	Industrial Practical Training	10
TOTAL		63

B. Diploma in Electronic and Telecommunication Engineering (2nd Year)**Semester I**

Fundamental Courses		
Code	Name	Credits
SBT 05101	Linear programming and Trigonometry	6
SBT 05102	Waves and Oscillations	6
SBT 05103	Technical Communication skills	2
SBT 05104	Introduction to entrepreneurship	2
COT 05105	Relational Database	2
Core Courses		
ETT 05101	Optical Fiber Communication	8
ETT 05102	Basics of Digital Electronics	6
ETT 05103	Analogue Circuit Analysis	8
ETT 05104	Signal Processing, Transmission and Reception	8
ETT 05105	Introduction to Engineering Software	7
TOTAL		55

Semester II

Fundamental Courses		
Code	Name	Credits
SBT 05201	Calculus	6
SBT 05202	Mechanical properties and Fluid Mechanics.	6
SBT 05203	Fundamental of Technical Communication	2
SBT 05204	Globalization and social change	2
COT 05205	Fundamentals of Computer Programming	3
Core Courses		
ETT 05201	Digital Integrated Circuits	8
ETT 05202	Television Technology	10
ETT 05203	Modulation & Demodulation Techniques	10
ETT 05204	Data Communication	8
IPT 05	Industrial Training	10
TOTAL		65

C. Diploma in Electronic and Telecommunication Engineering (3rd Year)

Semester I

Fundamental Courses		
Code	Name	Credits
SBT 06101	Vectors and Coordinate Geometry	7
SBT 06102	Heat and Thermodynamics	7
SBT 06104	Entrepreneurship	3
Core Courses		
ETD 06101	Telecommunication Switching Principles	8
ETD 06102	Instrumentation	6
ETD 06103	Radio Transmission System	7
ETD 06104	Antenna and Radars	7
ETD 06105	Programmable Logic Controllers	7
ETD 06106	Project	8
TOTAL		60

Semester II

Fundamental Courses		
Code	Name	Credits
SBT 06201	Logic and Statics	7
SBT 06202	Organic Compounds	7
Core Courses		
ETD 06201	Communication Systems	9
ETD 06202	Telephone Systems	9

ETD 06203	Television and Video Engineering	9
ETD 06204	Industrial Electronics	9
ETD 06206	Project	10
TOTAL		60

LIST OF STAFF

Assistant Lecturers

1. Mr.Sospeter S. Joseph MSc. Electronic & Telecom Eng (NM-AIST), BSc. Telecommunication Engineering (UDSM)
2. Mr. AyubuH.Mbaga, ME Signal &Infor. Processing (TUTE– CHINA), B. Eng. ECE (St. JCET)

Tutorial Assistant

1. Mr.Godphrey G. Kyambile MSc. Comp (NM-AIST), BSc Computer Science (St. Joseph)
2. Mr. Ally S. Sikoro MSc. Comp (UDOM), B. Eng (DIT), FTC (DIT)
3. Mr. LihendimaPeter .MadembweB.Sc Computer Science (St. Joseph)
4. Mr.Aman Sanga B. Eng. (DIT)

8.4 COLLEGE OF SCIENCE AND TECHNICAL EDUCATION (CoSTE)

8.4.1 THE DEPARTMENT OF APPLIED SCIENCE

Programmes

The Department offers one (1) Programme:

- a) Diploma in Food Science and Technology

8.4.1.1 LABORATORIES

- i. Chemistry Laboratory
- ii. Biology Laboratory
- iii. Food Science

8.4.1.2 LIST OF STAFF

(Head of Department)

Dr. Zaharan H. Mgina

PhD Food Sci. (Stellenbosch Univ.), MSc. Food Sci, (Stellenbosch Univ.), BSc. Food Sci. Technol. (SUA)

Lecturers

Mr. Christopher A. Mgimba	MIEM (UDSM), BSc.Ed (UDSM), Certificate in Biogas Hygiene Technology and Facilities in Developing Countries (BIOMA in PRC).
Mr. Fredrick S. Ojija	MSc. (Vrije University of Brussels), BSc wildlife (UDSM) *
Assistant Lectures	
Mr. Matungwa R. William	MSc. in Environmental Quality Sciences (HUJI-Israel), BSc. in Environmental Sciences and Management (SUA)
Mr. Fabian Mihafu	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 Science and Technology (SUA), BSc. Food Science and Technology (SUA)
Ms. Buzo H. Maige	MSc. Food Science (Makerere Univ.), BSc. Food Science and Technology (SUA)
Ms. Angela Aluko	MSc. Food Science (Jomo Kenyatta Univ.), MBA (UDOM), BSc. Food Science and Technology (SUA)*
Mr. Joseph Runyogote	MSc. Food Science and Technology (SUA), BSc. Food Science and Technology (SUA)*
Mr. Chacha Nyangi	MSc. Food Science (SUA), 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. Paskalina Badi	MSc. Biochemistry (SUA), BSc. Biotech. (SUA)
Ms. Amina M. Ahmed	MSc. Food Science (SUA), 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)
Instructors	
Mr. Kalugula S. Junja	BSc. Biotech. (SUA)*
Ms. Prisca Siyame	BSc. Food Science and Technology (SUA) *
Mr. Nicolaus O. Mbugi	MSc. Life Sciences (Health and Biomedical Science) (NM-AIST), BSc. Biotech (SUA)
Mr. John Emmanuel	BSc. Food Science and Technology (SUA) *
Ms. Grace Paul R.	BSc. Biotech. (SUA)

Technicians

Mr. Peter M. Barageti	BSc. Biotechnology (SUA), Diploma in Science and Lab. (DIT)
Mr. Joseph P. Kayange	BSc. Lab Tech. (SUA) Diploma in Science and Lab. (DIT)
Mr. Charles E. Chekecha	BSc. Lab Tech. (SUA), FTC Science and Lab. (DIT)
Mr. Moses Musa	In Food Science and Tech. (MUST)
Mr. Musa Mbotoni	Dip. In Lab Science and Tech. (MUST) *
Mr. Frank Mahiki	Dip. In Lab Science and Tech. (ATC) *

8.4.1.3 PROGRAMME COURSES**DIPLOMA IN FOOD SCIENCE AND TECHNOLOGY****A. Diploma in Food Science and Technology (1st Year)****Semester I**

Fundamental Courses		
Code	Name	Credit
SBFT 04206	Basic applied Mathematics	6
SBFT 04105	Introduction to technical communication Skills	5
COT 04105	Introduction to Computer	3
Core Courses		
SBFT 04101	Introductory Food Science	10
SBFT 04102	Principles of Food Preservation	13
SBFT 04103	Introductory Biochemistry	10
SBFT 04104	Basics of Microbiology	12
TOTAL		59

Semester II

Fundamental Courses		
Code	Name	Credit
COT 04210	Basic computer application	3
SBFT 04205	Technical communication skills	5
Core Courses		
SBFT 04201	Food Microbiology	14
SBFT 04202	Material Science and Packaging for Food Technology	10
SBFT 04203	Basic Food Engineering	12
SFBT 04204	Food Biochemistry	14
IPT 1	Industrial practical training	10
TOTAL		68

B. Diploma in Food Science and Technology (2nd Year)**Semester I**

Fundamental Courses		
Code	Title	Credit
SBFT 05101	Introduction to entrepreneurship	5
SBFT 05102	Technical Communication skills	5
SBFT 05103	Computer application	9
Core Courses		
SBFT 05104	Food chemistry	10
SBFT 05105	Principles of human nutrition	9
SBFT 05106	Introduction to Biotechnology	10
SBFT 05107	Basic Food Instrumental and Analysis	12
TOTAL		60

Semester II

Fundamental Courses		
Code	Title	Credit
SBFT 05201	Analytical and Physical Chemistry	10
SBFT 05202	Computer for Science	9
Core Courses		
SBFT 05203	Food Research Methods	9
SBFT 05204	Food and Nutrition Security	9
SBFT 05205	Cereal Processing Technology	12
SBFT 05206	Food Contaminant and Hygiene	10
IPT 2	Industrial Practical Training	10
TOTAL		69

C. Diploma in Food Science and Technology (3rd Year)**Semester I**

Code	Titles	Credits
SBFT 06101	Food analytical Science	8
SBFT 06102	Sensory Evaluation of Food	8
SBFT 06103	Food Engineering Operations	12
SBFT 06104	Meat Science and Technology	6
SBFT 06105	Dairy Technology	6
SBFT 06106	Small scale food Business management	9
SBFT 06107	Research Proposal for food Technicians	10
TOTAL		59

Semester II

Code	Titles	Credits
SBFT 06201	Fish and Marine Products Technology	6
SBFT 06202	Applied Food Biotechnology	9
SBFT 06203	Beverage Technology	9
SBFT 06204	Plant and Equipment layout and maintenance	12
SBFT 06205	Food safety and Quality management	12
SBFT 06206	Research for food technicians	10
SBFT 06207	Pilot Plant Processes	9
TOTAL		67

8.4.2 THE DEPARTMENT OF NATURAL SCIENCES

Programmes

The Department offers two (2) Programmes:

- i. Diploma in Laboratory Science and Technology
- ii. Diploma in Laboratory Science and Technology

8.4.2.1 LABORATORIES

- i. Chemistry Laboratory
- ii. Biology Laboratory
- iii. Physics Laboratory

8.4.2.2 LIST OF STAFF

(Head of Department)

Dr. Eliezer B. Mwakalapa

PhD-Veterinary Science (Norwegian University of Life Sciences, (NMBU)); MSc. Marine Science (UDSM); BSc. Aquaculture (SUA)

Professors

Prof. Godliving Mtui,

PhD-Microbial Biotechnology (Kanazawa University, Japan); MSc. Microbial Technology (Kanazawa University, Japan); BSc. Chemistry and Botany (UDSM)

Lecturer

Dr. Eliezer B. Mwakalapa,

PhD- Veterinary Science (Norwegian University of Life Sciences, (NMBU)); MSc. Marine Science (UDSM); BSc. Aquaculture (SUA)

Assistant Lecturers

Mr. Hudson Laizer	MSc Life Sciences & Bioengineering (NM-AIST); BSc. Wildlife Management (SUA) *
Mr. MelkzedekTserse	MSc. Materials Science and Engineering (NM-AIST); BSc.Ed (St. Johns University of Tanzania)
Mr. Mubashiru A. Kakulwa	MIEM (UDSM); BSc.Chemistry & Zoology (Islamic University in Uganda)
Mr. Khamis N. Ally	MSc. Chemistry (Sakarya University, Turkey); Bachelor of Chemistry (Sakarya University, Turkey) *
Ms. Colletha Y. Mengo	MSc. Zoology (UDSM); BSc. Ed. (UDSM) *
Mr. Omega A. Vicent	MSc. Marine Sciences (UDSM); BSc. Aquatic Environmental Science and Conservation (UDSM)
Mr. Phenson Justine	MSc Agr. (Environmental Quality Science) (Hebrew University of Jerusalem); BSc Chemistry (UDOM) *
Mr. Azaria L. Stephano	MSc. Agr. (Environmental Quality Science) (Hebrew University of Jerusalem); BSc Chemistry (UDOM)
Mr. Guido E. Kayuki	Msc. Chemistry (UDSM); BSc.Ed (UDSM)
Mr. Ndaki M. Manyanza	MSc. Biodiversity Conservation (UDOM); BSc Biology (UDOM)
Mr. Kavishe Regan	MSc. Aquatic Science (Ningbo University, China); BSc. Aquaculture (SUA)*
Ms. Tumikia R. Sanga	MSc. Biochemistry (SUA); BSc. Biology & Chemistry (SUA)
Mr. Kombo A. Kombo	MSc. Physics (Gadjah Mada University, Indonesia); BSc. Ed. Physics & Maths (Muslim University)
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) *

Tutorial Assistant

Mr. Bugumba J. Majondo	BSc. Ed. Physics & Maths (UDSM) *
Mr. Charles Johnstone	BSc. Ed (UDSM) *
Mr. Victor F. Sanga	BSc. Biology & Chemistry (SUA) *
Mr. Amosi Makoye S	BSc. Chemistry (UDOM) *

**On study leave*

8.1.5.3 PROGRAMME COURSES**8.4.2.3 PROGRAMME COURSES****DIPLOMA IN LABORATORY SCIENCE AND TECHNOLOGY**

A. Diploma in Laboratory Science and Technology (1st Year)**Semester I**

Code	Name	Credits
SBLT 04101	Algebra for Science	9
SBLT 04102	Basics of Cell Biology	9
SBLT 04103	Elementary electrochemistry	8
SBLT 04104	Laboratory safety	9
SBLT 04105	Introduction to Mechanics and Heat Energy	8
SBLT 04106	Fundamentals of English Grammar	5
COT 04107	Introduction to Computer	8
TOTAL		56

Semester II

Code	Name	Credits
SBLT 04201	Introduction to Calculus	9
SBLT 04202	Classification of living organisms	10
SBLT 04203	Laboratory Solutions and Reagents	9
SBLT 04204	Atomic theory and Radioactivity	5
SBLT 04205	Technical Communication skills	5
SBLT 04206	Laboratory Experiment Planning	9
COT 04207	Basic Computer Application	10
SBLT 04208	Industrial Field Training	10
TOTAL		67

B. Diploma in Laboratory Science and Technology (2nd Year)**Semester I**

Code	Name	Credits
SBLT 05101	Laboratory Instrumentation and maintenance	9
SBLT 05102	Laboratory Analysis and Statistical Techniques	9
SBLT 05103	Electricity and Electrical Devices	8
COT 05104	Basic computer application	9
SBLT 05105	Calculus	8
SBLT 05106	Introduction to Entrepreneurship	5
SBLT 05107	Technical Communication Skills	8
TOTAL		56

Semester II

Code	Name	Credits
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SBLT 05201	Small Scale Business Management	9
SBLT 05202	Linear Programming and Trigonometry	10
SBLT 05203	Fundamental of Oral and written Technical Communication	9
SBLT 05204	Laboratory Design and Environmental Management	5
COT 05205	Computer for Science	5
SBLT 05206	Electricity and Electronic Devices	9
SBLT 05207	Research Techniques	6
SBLT 05208	Industrial Field Training	10
TOTAL		67

C. Diploma in Laboratory Science and Technology (3rd Year)

Semester I

Code	Name	Credits
SBT 06104	Entrepreneurship	5
COT 06105	Introduction to Computer programming	8
SBT 05102	Waves and Oscillations	6
SBLT 06103	Introduction to Biochemistry	8
SBLT 06102	Basics of Genetics and Biotechnology	9
SBLT 06106	Solvent Separation Techniques	10
SBLT 06107	Project	10
TOTAL		61

Semester II

Code	Name	Credits
SBT 06201	Introduction to Logic and Statistics	9
SBT 06202	Organic chemistry	8
SBLT 06203	Fundamentals of Microbiology	10
SBLT 06204	Essentials of Analytical Chemistry	10
SBLT 06205	Thermodynamics and Electromagnetism	8
SBLT 06206	Laboratory QA/QC	8
COT 06207	Computer programming	9
TOTAL		61

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	Calculus	8
NSLT 07106	Technical Communication Skills	8
TOTAL		56

Elective Courses		
Code	Name	Credits
ELT 07101	Analogue Electronics	8
TOTAL		8

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 07202	Advanced Calculus	8
NSLT 07212	Industrial Management	8
NSLT 07111	Fluid Mechanics	8
TOTAL		32

B. Bachelor of Laboratory Science and Technology (2nd Year)

Semester III

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 IV

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

C. Bachelor of Laboratory Science and Technology (2nd Year)

Semester V

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 VI

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

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 Equipment Laboratory

8.4.3.2 LIST OF STAFF***Head of Department***

Optatus Mwalongo MSc (Life Sciences & Bioengineering) Nelson Mandela,
BSc. with Education (UDSM)

Assistant Lecturers

Benedethar Rugumisa MSc (Life Sciences & Bioengineering) Nelson Mandela,
BSc. in Biotechnology and Laboratory Sciences Sokoine
University

Gaspary Mwanyika MSc (Life Sciences & Bioengineering) Nelson Mandela,
BSc. in Biotechnology and Laboratory Sciences (SUA)

Optatus Mwalongo MSc (Life Sciences & Bioengineering) Nelson Mandela,
BSc. with Education (UDSM)

Tutorial Assistants

Hamisi A. Maonezi MSc. Biotechnology (Medical specialization), BSc.
Molecular Biology and Biotechnology (UDSM).

Christina L. Mwabeza BSc Computer Engineering (DIT)

Instructor

Kadoke M. Kadoke BSc. Electronics and Telecommunication (St. Joseph
Tanzania).

**On Study leave*

8.1.5.3 PROGRAMME COURSES**8.4.3.3 PROGRAMME COURSES****DIPLOMA IN BIOMEDICAL EQUIPMENT ENGINEERING****A. Diploma in Biomedical Equipment Engineering (1st Year)****Semester 1**

Code	Name	Credits
GST 04101	Algebra	5
GST 04102	Basic Technical Communication Skills	2
CSET 04104	Computer Basics and Word Processing	2
SLTP 04101	Statics and Dynamics	3
	Total Fundamental Courses Credits	15
MET 04105	Workshop Technology	6
MET 04101	Basic Technical Drawing	9
EET 04102	Principles of DC Networks	9

ETT 04101	Basic Electronics	6
EEBT 04101	Human anatomy and Physiology	9
EEBT 04102	Introduction to Biomedical Field , Hospital Safety and Standards	6
TOTAL		45

Semester II

Code	Name	Credits
GST 04204	Trigonometry and Vectors	5
GST 04205	Communication Skills	2
CSET 04201	Spreadsheet and Database	2
SLTP 04201	Gravitation and Simple Harmonic Motion	3
Total Fundamental Courses Credits		15
EET 04202	Principles of AC Networks	12
ETT 04204	Electronic Circuits	12
EEBT04201	Doctors' Equipment	6
EEBT 04202	Basic Laboratory Equipment	6
EEBT 04203	Basic Theatre Equipment	6
EEBT 04204	Dental Equipment	6
EEBT 04205	Basic Intensive Care Unit Equipment	6
EEBT 04200	Industrial Practical Training	10
TOTAL		52

B. Diploma in Biomedical Equipment Engineering (2nd Year)

Semester 1

Code	Name	Credits
GST 05101	Fundamental Rule of Counting, Matrices and Differentiation	3
GST 05102	Business Communication	2
SLTP 05101	Strength of Materials and Rotational Dynamics	3
GST 05103	Business Start Up and Management	3
CSET 05101	Presentation and Internet	2
Total Fundamental Credits		13
EEBT 05101	Patient Monitoring Equipment	9
EEBT 05102	Optician and Dentistry Equipment	9
EEBT 05103	Laboratory Analyzer equipment	9
EEBT 05104	Theatre Equipment	9
EET 05101	DC Machines	6
EET 05102	Industrial Electronics	12
EEBT 05102	Biomedical Instrumentation	12

TOTAL	60
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Semester II Year 2

Code	Name	Credits
GST 05204	Integration Statistics and Probability	5
GS 05205	Communication and Technical Presentations	2
SLTP 05201	Fluid Mechanics	3
GS 05206	Business Financial Management and Accounting	3
CST 05204	Basic Computer Application IV	2
	Total Fundamental Credits	15
EEBT 05201	Fundamentals of XR AY and CTSCAN	9
EEBT 05202	Principles of Magnetic Resonance Imaging	9
EEBT 05203	Radiotherapy and Lithotripter	9
EEBT 05204	Dialysis and Ultrasound technology	9
EET 05203	Digital Electronics	6
EET 05201	AC Machines	6
IPT 05200	Industrial Training	10
TOTAL		61

C. Diploma in Biomedical Equipment Engineering (3rd Year)

Semester 1

Code	Name	Credits
GST 06101	Conic and Differential Equations	4
GST 06102	Engineering Study skills	2
SLT 06101	Electromagnetism	2
GST 06103	Formalisation, Internationalisation and Business	4
CSET 06101	Basic Computer Programming	2
	Total Fundamental Course Credits	14
EEBT 06101	Biomedical Equipment Engineering Management	9
EEBT 06102	Biomedical computer Network and Data communication	9
EEBT 06103	Biomedical Equipment Project Data collection	10
EET 05208	Principles of Signal Modulation and demodulation	9
EET 06104	Electronic Design	6
CSET 05207	Microprocessor Technology	12
SLTP 06104	Laboratory Stores Management	6
TOTAL		67

Semester I

Code	Name	Credits
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GST 06204	Complex number, Numerical methods and series	3
GST 06205	Technical Writings	1
SLT 06202	Heat and Thermodynamics	2
GST 06206	Business Planning	4
CSET 05205	Data Structure and file handling	2
	Total Fundamental Course Credits	12
EEBT 06201	Training Methodology	6
ETT 06208	Communication System	9
EEBT 06203	Medical Device Standards	6
EEBT 06204	Work Ethics	2
EEBT 06205	Biomedical Equipment Project	10
TOTAL		67

8.4.4 DEPARTMENT OF TECHNICAL EDUCATION AND PSYCHOLOGY

Programmes

The Department offers one (1) undergraduate programme:

- i. Bachelor of Science with Education in the following specialization:

- Chemistry and Biology
- Chemistry and Mathematics
- Chemistry and Physics
- Physics and Mathematics

8.4.4.1 LABORATORIES

- i. Chemistry Laboratory
- ii. Biology Laboratory
- iii. Physics Laborator

8.4.4.2 LIST OF STAFF

Head of Department

Evarist Mahallah MSc. (Education) UDSM, BSc with Education UDSM

Assistant Lecturers

Christer Burchard MSc. Ed (Education) Aga Khan University, BSc Education UDSM

Evarist Mahallah MSc (Education) UDSM, BSc with Education UDSM

Atida Mbingamno	MED (Sc) Education UDSM, Bachelor of Education UDSM
Frola Kayuki	MEMP. (Education) St. Augustine University – Mwanza
Gisandu K. Malunguja	MSc. (BC) UDOM, BSc. Ed (Biology) UDOM
Trazias Herman	MSc (Maths) African Inst. Of Science & Technology, BSc with Education UDSM
Mr. AlmachiusRweyemamau (UDSM)	MSc. Chemistry (Ghana University) BSc. Ed. Chemistry & Biology
Mr. DalikoMhule	Master of Arts in Education (Mzumbe), Bachelor of Education (Counselling Psychology) (TEKU)
Mr. Chacha. O. Matete	Master of Education Management and Planning (SAUT), Bachelor in Education (History and Geography) (RUCO)

Tutorial Assistant

Ms. Miriam G. Kaliwa	BED Science (Biology) UDSM
Mr. Phares. D. Petro	BSc. (Education) - SUA
Mr. William I. Mlelwa	BSc. Ed (Chemistry and Biology – UDSM)
Mr. Samweli S. Shimo	BSc. (Biology) – UDSM *
Ms. Hildegard Kasambala	BSc.Ed (DUCE) *
Mr. John P.M. Kachira	BSc. Ed. (UDSM)
Mr. Musa B. Mbegeze	BSc. Ed (Chemistry and Biology) UDSM

Instructor

Ms. Stella TotoFulgence	MA.Ed (Ed)-UDOM; Bed. (Policy Planning Management) UDOM
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**Study Leave*

8.4.4.3 PROGRAMME COURSES**BACHELOR OF SCIENCE WITH EDUCATION****UQF Level 8 Bachelor (Physics Courses)****Semester I Year I**

Code	Name	Credits
NSPH1101	Classical Mechanics	10
NSPH1102	Vibrations, Waves and Optics	12
TOTAL		22

Semester II Year I

Code	Name	Credits
NSPH1203	Experimental Methods of Physics I	8
NSPH1204	Electromagnetism	12

TOTAL	20
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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	12
NSPH3113	Fundamentals of Atmospheric Physics	8
NSPH3114*	Elementary Particles*	8
NSPH3115*	Energy in the Environment*	8
TOTAL		36

Semester VI Year 3

Code	Name	Credits
NSPH3216	Physics of the Atom	12
NSPH3317	Solid State Physics	8
NSPH3218*	Physics Project*	10
NSPH3219*	Astrophysics*	8
NSPH3220*	The Basics of NMR Spectroscopy*	8
TOTAL		192

UQF Level 8 Bachelor (Chemistry Courses)

Semester I Year 1

Code	Name	Credits
NSCH1101	Basic Analytical and Physical Chemistry	10
NSCH1102	Introduction to Electronic Structure*	10
NSCH1103	Chemistry Practical 1	8

	28
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Semester II Year 1

Code	Name	Credits
NSCH1204	Organic Chemistry I	12
NSCH1205	Chemistry Practical II	8
NSCH1206	Basic Inorganic Chemistry	10
TOTAL		30

Semester III Year 2

Code	Name	Credits
NSCH2107	Chemical Thermodynamics	10
NSCH2108	Chemistry Practical III	8
NSCH2109	Instrumental Methods in Analytical Chemistry	10
NSCH2110*	Organic Structures, Reactions and Mechanisms*	12
TOTAL		40

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*	10
TOTAL		52

Semester V Year 3

Code	Name	Credits
NSCH3116*	Chemistry Project*	10
NSCH3117	Chemistry Practical V	8
NSCH3118	Electrochemistry and Corrosion Protection	12
NSCH3119*	Polymer Chemistry*	10
TOTAL		40

Semester VI Year 3

Code	Name	Credits
NSCH3220	Organic Spectroscopy	12

NSCH3221*	Spectroscopy in Coordination Chemistry*	12
NSCH3222*	Chemistry of Natural Products*	12
TOTAL		36

UQF Level 8 Bachelor (Biology Courses)

Semester I Year I

Code	Name	Credits
NSBL 1101	Introduction to Cell Biology and Genetics	10
NSBL 1102	Invertebrate Zoology	08
NSBL 1103	Ecology	10
NSBL 1104	Fundamentals of Microbiology I*	08
TOTAL		36

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	10
NSBL 2110	Introduction to Parasitology and Entomology	12
NSBL 2111*	Fundamentals of Soil Science*	8
TOTAL		30

Semester IV Year 2

Code	Name	Credits
NSBL 2212	Biochemistry	10
NSBL 2213	Vertebrate Anatomy and Physiology II	10
NSBL 2214	Fundamentals of Microbiology II	8
TOTAL		28

Semester V Year 3

Code	Name	Credits
NSBL 3115	Molecular Genetics	10

NSBL 3116	Evolution	10
NSBL 3117	Taxonomy of Higher Plants	10
NSBL 3118*	Plant Pathology*	10
TOTAL		40

Semester VI Year 3

Code	Name	Credits
NSBL 3219	Introduction to Biodiversity	12
NSBL 3220	Anatomy of Angiosperm	10
NSBL 3221	Physiology of Nutrition*	10
TOTAL		32

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
NSMT1104*	Foundations Analysis	8
NSMT1105*	Programming in C+	8
TOTAL		40

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

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	08
NSMT3119*	Database Design	10
TOTAL		26

Semester VI Year 3

Code	Name	Credits
NSMT3220	Complex Variable Analysis	8
NSMT3221*	Mathematics Project	8
NSMT3222	Statistical Inference	8
TOTAL		24

UQF Level 8 Bachelor (Education Courses)

Semester I Year 1

Code	Name	Credits
NSED 1101	Education Foundation and Philosophy	10
NSED 1102	Education Media and Technology	10
TOTAL		20

Semester II Year 1

Code	Name	Credits
NSED 1203	Introduction to Educational Psychology	10
NSED 1204	Teaching Methods	10
NSED 1205	Teaching Practice for First Year	12
TOTAL		32

Semester III Year 2

Code	Name	Credits
NSED 2106	Guidance and Counseling in Education	10
NSED 2107	Education Measurement and Evaluation	10

TOTAL	20
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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	10
TOTAL		10

Semester VI Year 3

Code	Name	Credits
NSED 3211	Professionalism and Ethics in Education	10
TOTAL		10

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
NSST 1204	Introductory Statistics	8
NSCT1205	Introduction to Computer	8
TOTAL		16

8.5 COLLEGE OF HUMANITIES AND BUSINESS STUDIES (CoHBS)

8.5.1 DEPARTMENT OF BUSINESS MANAGEMENT

Programmes

The Department offers two (2) programmes:

- i. Diploma in Business Administration
- ii. 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

8.5.1.1 LIST OF STAFF

(Head of Department)

Mr. Phillip A. Magembe	MBA-Corporate Management (Mzumbe); Advanced Diploma in Accountancy (TIA)
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Senior Lecturers

Dr. Vicent T. Kipene	PhD (SUA); MBA (SUA), BSc. Agr. Ed (SUA), Dip Ed. (Monduli).
Dr. Asheri M. Mwidege	PhD (SUA); MA Econ. BSc. Ed. (UDSM), Dip. In Ed. (Mkwawa)

Lecturers

Dr. Raphael Ngetuya	PhD (MZUMBE); MBA (Corporate Management) (MZUMBE); BA (Ed) (UDSM)
Dr. Lulu Luflenge	PhD (PJ TSAU); MA (Rural Development) (SUA); BSc (Home Economics and Human Nutrition) (SUA)
Mr. Abbas Y. Sanga	MARD (SUA); Bed (UDSM); Accounting technician certificate (DSA)
*Mr. Yohana J. Sesabo	MBA (Mzumbe); BBA (Marketing) (MZUMBE)
Ms. Herieth J. Rogath	MSc (Industrial Logistics) (Molde, Norway); MSc International Trade (UDSM); BSc (Urban and Regional Planning) (UCLAS)

Assistant Lecturers

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)
*Ms.Ukende Kingu	MBA (UDSM), BSc. Food Science & Tech (SUA).
*Mr. Evans J. Lupenza	MBA (OUT), B.Com (UDSM), DACA, (Moshi Coop. College).
*Ms. Patricia W. Fela	MA (Linguistics) (UDSM); Bed (Arts) (Kenyatta University)
Mr. John F. Mogha	MBA-Corporate Management (Mzumbe); BSc (Agricultural Education and Extension) (SUA)
Mr.Lazaro Kagata	MSc (Development Policy) (Mzumbe), BSc (Education) (UDSM); BSc (Environmental Sciences and Management) (SUA);
Mr. Ibrahim Mwasyeba	MBA-Corporate Management (Mzumbe); Advanced Diploma in Accountancy (IAA)
CPA Frank N. Kindimba	MBA-Finance Assam Don Bosco University; BAF (Mzumbe)

Tutorial Assistant

*Mr. Stephen Matiku	BBA (MUST)
Mr. Emmanuel Sanga	Bachelor of Public (Mzumbe)
Mr. Ezekia M. Laiton	BBA with Education (Arusha University)
CPA Naomi R. Nyambo	BAF (Mzumbe);
Mr. Justus S. Massawe	Certified Procurement and Supplies Professional; BA Procurement and Supply Management

* *On study leave*

8.5.1.2 PROGRAMME COURSES

DIPLOMA IN BUSINESS ADMINISTRATION

A. Diploma in Business Administration (1st Year)

Semester I

CODE	TITLE	CREDITS
SB 411	Elementary Business Mathematics	10
SB 412	Introduction to Supervisory Skills	10
SB 413	Elementary Economics	10
SB 414	Basic Communication Skills	10
SB 415	Introduction to Computers	10
SB 416	Introduction to Environmental Studies	10
TOTAL		60

Semester II

CODE	TITLE	CREDITS
SB 421	Introduction to Entrepreneurship	10
SB 422	Basic Procurement and Supply	10
SB 423	Elements of Commerce	10
SB 424	Principles of Salesmanship	10
SB 425	Basic Bookkeeping	10
SB 426	Field Practical	10
TOTAL		60

B. Diploma in Business Administration (2nd Year)

Semester I

CODE	TITLE	CREDITS
SB 511	Introduction to Management Principles	10
SB 512	Introduction to Business Law and Ethics	10
SB 513	Introduction to Marketing	10
SB 514	Introduction to Economics	10
SB 515	Business Communication	10
SB 516	Business Mathematics and Statistics	10
TOTAL		60

Semester II

CODE	TITLE	CREDITS
SB 521	Small Business Management	10
SB 522	Introduction to Financial Accounting	10
SB 523	Information and Computer Technology	10
SB 524	Introduction to Environmental Economics	10
SB 525	Sales Management	10
SB 526	Procurement and Supply	10
SB 528	Field Practical	10
TOTAL		70

C. Diploma in Business Administration (3rd Year)

Semester I

CODE	TITLE	CREDITS
SB 611	Economics	10
SB 612	Financial and Cost Accounting	10
SB 613	Principles of Marketing	10
SB 614	Human Resources Management	10

SB 615	Introduction to Quantitative Methods	10
SB 616	Entrepreneurship	10
TOTAL		60

Semester II

CODE	TITLE	CREDITS
SB 621	Introduction to International Marketing	10
SB 622	Financial Management	10
SB 623	Introduction to Business Environment	10
SB 624	Logistics and Transportation Management	10
SB 625	Introduction to Production Management	10
SB 626	Basic Research Methods	10
TOTAL		60

BACHELOR OF BUSINESS ADMINISTRATION

A. Bachelor of Business Administration (1st Year)

Semester I

Code	Name	Credits
BMH 07101	Communication Skills	09
BMH 07102	Development Studies	09
BMH 07103	Microeconomics	09
BMH 07104	Business Mathematics	10
PSH 07101	Procurement and Supply	10
HRH 07101	Principles of Management	10
MKH 07101	Principles of Marketing	10
TOTAL		67

Semester II

Code	Name	Credits
BMH 07204	Information and Communication Technology	8
BMH 07205	Macroeconomics	9
FAH 07201	Principles of accounting	10
FAH 07202	Cost Accounting	10
BMH 07207	Introduction to Business laws	09
MKH 07209	Theories of Entrepreneurship	09
BMH 07203	Business Communication	09
TOTAL		74

B. BBA – Procurement and Supply Chain Management (2nd Year)

Semester III

Code	Name	Credits
PSH 07302	Procurement Principles and Management	09
PSH 07304	Warehousing Management	09
PSH 07303	E-Procurement and E- Supply Chain Management	10
HRH 07310	Orgazational Behaviour	09
BMH 07309	Project Management	09
BMH 0710	Quantitative Techniques	09
BMH 07312	Managerial Economics	09
BMH 07311	Consultancy Service Management	09
TOTAL		64

B. BBA – Marketing and Entrepreneurship (2nd Year)

Semester III

Core Courses		
Code	Name	Credits
MKH 07303	Small Business Management	10
MKH 07304	Sales Management	10
PSH 07308	E-Procurement and E – Supply Chain Management	10
BMH 07313	Project Management	10
BMH 07312	Managerial Economics	10
BMH 07310	Quantitative Techniques	10
Elective Course		
FAH 07305	Money and Banking	9
PSH 07304	Warehousing Management	9
TOTAL		69

C. BBA – Human Resource Management (2nd Year)

Semester III

Code	Name	Credits
HRH 07302	Principle of Human Resource Management	10
HRH 07303	Human Resource Planning	10
HRH 07304	Human Resource Staffing	9
HRH 07306	Human Resource Training and Development	10
BMH 07312	Managerial Economics	10
BMH 07310	Quantitative Techniques	10
BMH 07313	Project Planning	10
TOTAL		69

B. BBA – Accounting and Finance (2nd Year)

Semester III

Code	Name	Credits
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FAH 07302	Financial Accounting	8
FAH 07303	Auditing and Assurance Services	9
FAH 07306	Contemporary Issues in Accounting	9
FAH 07307	Intermediate Accounting	8
FAH 07308	Public Finance and Taxation	8
FAH 07306	Financial Management	8
BMH 07310	Quantitative Techniques	8
		09
TOTAL		67

B. BBA – Procurement and Supply Chain Management (2nd Year)

Semester IV

Core Courses		
Code	Name	Credits
PSH 07405	Public Procurement	10
PSH 07406	Inventory Control and Management	10
PSH 07407	Strategic Procurement	10
PSH 07408	Principles of Store Administration	09
BMH 07412	Research Methodology	09
BMH 07413	Managerial Economics	09
BMH 07117	Field Practical Training 1	8
TOTAL		74

B. BBA – Marketing and Entrepreneurship (2nd Year)

Semester IV

Code	Name	Credits
MKH 07406	Business Planning and Development	9
MKH 07407	Creativity and Innovation in Business	10
MKH 07405	International Business	10
MKH 07410	E- Marketing Infrastructure	9
FAH 07408	Management Accounting	10
BMH 07411	Research Methodology	10
HRH 07411	Production Management	10
BMH 07117	Field Practical Training	8
TOTAL		69

B. BBA – Human Resource Management (2nd Year)

Semester IV

Core Courses		
Code	Name	Credits

HRH 07307	Leadership in Human Resource Management	10
HRH 07408	Career Planning and Management	9
HRH 07409	Employment and Labour Relations	9
FAH 07408	Management Accounting	10
BMH 07411	Research Methodology	10
HRH 07411	Production Management	10
BMH 07117	Field Practical Training	8
Elective Course		
MKH 07406	Business Planning and development	10
MKH 07405	International Business	10
TOTAL		76

B. BBA – Accounting and Finance (2nd Year)

Semester IV

Code	Name	Credits
FAH 0410	Advanced Financial Accounting	9
FAH 07411	Corporate Finance	8
FAH 07412	Advance Public Finance and Taxation	8
FAH 07413	Public Sector Accounting	9
FAH 07413	Managerial Economics	9
FAH 07411	Financial Management	9
FAH 07403	Cost Accounting	10
BMH 07412	Research Methodology	9
BMH 07117	Field Practical Training 1	8
TOTAL		79

C. Bachelor of Business Administration (3rd Year)

BBA – Procurement and Supply Chain Management

Semester I

Code	Name	Credits
BMB 08116	Research Project	32
BMB 08115	Field Practical Training II	20
TOTAL		52

BBA – Marketing and Entrepreneurship (3rd Year)

Semester I

Code	Name	Credits
BMB 08116	Research Project	32
BMB 08115	Field Practical Training II	20
TOTAL		52

BBA – Human Resource Management (3rd Year)**Semester I**

Code	Name	Credits
BMB 08116	Research Project	32
BMB 08115	Field Practical Training II	20
TOTAL		52

BBA – Accounting and Finance (3rd Year)**Semester I**

Code	Name	Credits
BMB 08116	Research Project	32
BMB 08115	Field Practical Training II	20
TOTAL		52

BBA – Procurement and Supply Chain Management (3rd Year)**Semester II**

Code	Name	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
FAB 082018	Management Accounting	9
PSB 08214	Principles of Clearing and Forwarding	9
FAB 08215	Risk Management	9
TOTAL		17

BBA – Marketing and Entrepreneurship (3rd Year)**Semester II**

Code	Name	Credits
MKB 08211	Service Marketing	10
MKB 08212	Consumer Behaviour	10
MKB 08213	Marketing Research	10
MKB 08214	E- Marketing Process	9
MKB 08215	Strategic Marketing	10
BMB 08208	Business Communication	10
MKB 08216	Consumer Marketing and Brand Management	10
TOTAL		69

BBA – Human Resource Management (3rd Year)

Semester II

Code	Name	Credits
HRB 08212	Occupation Health and Safety	7
HRB 08213	Employments and Labour Laws	7
HRB 08214	Human Resources Management Information Systems	8
HRB 08215	Compensation and Performance Management	7
HRB 08218	Organizational Behaviour	10
BMB 08208	Business Communication	10
HRB 08217	Management Consultancy Skills	10
HRB 08210	Strategic Management	10
TOTAL		69

BBA – Accounting and Finance (3rd Year)

Semester II

Code	Name	Credits
FAB 08215	Accounting and Software Package	9
FAB 08216	Advanced Cost Accounting	9
FAB 08217	Advance Accounting II	9
FAB 08218	Microfinance Management	9
FAB 08215	Management Accounting	9
FAB 08219	International Finance	9
FAB 08210	International Business Management	9
FAB 08220	Advanced Auditing and Assurance	9
TOTAL		72

8.6 MUST RUKWA CAMPUS COLLEGE (MRCC)**8.6.1 DEPARTMENT OF MECHANICAL AND INDUSTRIAL ENGINEERING****Programmes**

The department offers two (02) programmes

- i. Diploma in Mechanical Engineering
- ii. Bachelor in Mechanical Engineering

8.6.1.1 LABORATORIES AND WORKSOPS

- i. Mechanical Engineering Workshop
- ii. Computer Laboratory

8.6.1.2 LIST OF STAFF**(Ag. Head of Department)**

JoramNgilangwa MSc Prod. Eng (UDSM), BSc. Mech. Eng. (UDSM), FTC Mech (MTC).

Associate Professors

Prof. Osmund Kaunde PhD (Leeds), MSc. (Leeds) BSc.(UDSM)

Lecturers

Dr. Duncan Mwakipesile PhD (UDSM), MSc. (RUSSE-Bulgaria), BSc. (RUSSE-Bulgaria).

Assistant Lecturers

JoramNgilangwa MSc Prod. Eng. (UDSM), BSc. Mech. Eng. (UDSM), FTC Mech(MTC).

Nyanda M. Malashi B. Eng. Mech. (MUST), MSc. Material Science and Eng. (NM-AIST).

Alex Mwalyego M.Sc. Math (UDSM), B.Sc Maths & Statistics (UDSM)

WidsonMwasenga B.Eng. (MUST), FTC. Mech. Eng. (MTC)

Tutorial Assistants

Joseph Matwani B.Eng. Electrical Engineering (MUST), FTC (MTC)

Peter Leiya B.Sc Geomatics ((UDSM (UCLAS))

Mathew Mbaule PGDE Mech. (UDSM), ADE Mech. (MIST), FTC Mech. Eng. (MTC)

Instructors

Baraka Festo Kilave Dip. Mech Eng (NIT)

Technicians

Mosses Mazengo PGDE Mech. (UDSM), ADE Mech. (MIST), FTC Mech. Eng. (MTC).

Fredrick Maula Dip. Mech Eng (MIST)

8.6.1.3 PROGRAMME COURSES

DIPOMA IN MECHANICAL ENGINEERING

A. Diploma in Mechanical Engineering (1st Year)

Semester I

Fundamental Courses		
Code	Name	Credit
SBT 04101	Basics of Calculus, Logarithms and Number Systems	5
SBT 04102	Introduction to Mechanics	5
SBT 04103	Introduction to Technical Communication	3
SBT 04104	Elementary Theories of Entrepreneurship Development	3
MMT 04104	Fundamentals of ICT	5
MMT 04105	Computer application software	6
Core Courses		
MET 04101	Basic Technical Drawing	5
MET 04102	Fundamentals of Engineering Materials	6
MET 04103	Introduction to Engineering Mechanics	5
MMT 04102	Fundamentals of Automotive Technology	5
MET 04105	Workshop Technology	9
EET 04108	Fundamentals of Electrical Engineering	5
TOTAL		62

Semester II

Fundamental Courses		
Code	Name	Credit
SBT 04201	Polynomials, Matrices and Binomial theorem	5
SBT 04202	Essentials of Mechanics	5
SBT 04203	Fundamentals of English Grammar	3
MMT 04207	Basic Computer programming	5
Core Courses		
MET 04201	Technical Drawing	5
MET 04202	Technology of Metals	7
MET 04203	Mechanical Engineering Science	5
MMT 04206	Vehicle Routine Maintenance	11
MET 04205	Machine tools	12
IPTM 04	Industrial Practical Training	10
TOTAL		68

B. Diploma in Mechanical Engineering (2nd Year)**Semester 1**

Fundamental Courses		
Code	Name	Credit
SBT 05101	Statistics, Logarithms and Trigonometry	5
SBT 05102	Heat and Simple Harmonic Motion	5
SBT 05103	Technical Communication	2
SBT 05104	Entrepreneurship and Simple Business Projects	3

Core Courses		
ET 05101	Technical Engineering Drawing	6
MET 05102	Engineering Materials	6
MET 05103	Strength of Materials	6
MET 05104	Vehicle Transmission System	9
MET 05105	Metal Fabrication Processes	12
MET 05106	Machine Elements and Design	3
MET 05107	Thermodynamics	4
MET 05108	Engineering Measurements & Instrumentations	7
IPTM 05	Industrial Practical Training	10
TOTAL		78

Semester II

Fundamental Courses		
Code	Name	Credit
SBT 05201	Series, Vector and Calculus	5
SBT 05202	Electrolysis, Fluid mechanics and Strength of Materials	5
SBT 05203	Fundamentals of Oral and Written Technical Communication	2
Core Courses		
MET 05201	Engineering Drawing	6
MET 05204	Auto-electrical System	12
MET 05205	Metal Forming Processes	10
MET 05206	Mechanical Drives	9
MET 05207	Fluids Mechanics	3
TOTAL		52

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

Fundamental Courses		
Code	Name	Credit

SBT 06101	Vector and coordinate Geometry	7
SBT 06104	Entrepreneurship	3
Core Courses		
MET 06101	Machine Drawing	5
MET 06106	Transmission Components Design	5
MET 06109	Power Generation	3
MET 06110	Fundamentals of Refrigeration	9
MET 06111	Production Technology	11
MET 06113	Environmental Engineering	3
MET 06114	Introduction to Mechatronics	6
MET 06115	Project Design	8
TOTAL		60

Semester II

Fundamental Courses		
Code	Name	Credit
SBT 06201	Logic and Statistics	7
SBT 06202	Organic compounds	7
Core Courses		
MET 06201	Computer Aided Drafting	6
MET 06206	Product Design	5
MET 06209	Power Production Components	5
MET 06210	Fundamentals of Air-conditioning	9
MET 06214	Programmable Logic Controllers	6
MET 06215	Workshop Management	3
MET 06216	Project Fabrication	7
MET 06217	Industrial Accidents and Prevention	8
TOTAL		63

C. Diploma in Mechanical Engineering [Industrial Safety and Occupational Health] (3rd Year)

Semester I

Fundamental Courses		
Code	Name	Credit
SBT 06101	Vector and coordinate Geometry	7
SBT 06104	Small Enterprise Management	3
Core Courses		
MET 06116	Industrial Accidents and Prevention	8
MET 06117	Occupational Health	8
MET 06118	Fire Prevention and Control	9
MET 06101	Machine Drawing	5

MET 06109	Power Generation	3
MET 06113	Environmental Engineering	3
MET 06115	Safety Project	8
MET 06119	Safety Maintenance	9
TOTAL		63

Semester II

Fundamental Courses		
Code	Name	Credit
SBT 06201	Logic and Statistics	7
SBT 06202	Organic compounds	7
Core Courses		
MET 06201	Computer Aided Drafting	6
MET 06215	Workshop Management	3
MET 06216	Risk Management	6
MET 06217	Industrial Safety Practices	11
MET 06218	Safety Project*	11
MET 06219	Workplace health and safety induction	11
TOTAL		65

BACHELOR OF MECHANICAL ENGINEERING

A. UQF 6: Bachelor of Mechanical Engineering (1st Year)

Semester 1

Code	Title	Credits
MEB 1101	Engineering Drawing I	8
MEB 1102	Engineering Materials	6
MEB 1103	Machine Elements and Design I	6
MEB 1104	Manufacturing Engineering I	15
MEB 1105	Power Production I	6
MEB 1106	Strength of Materials	6
MEB 1107	Computer Application	5
MEB 1108	Environmental Engineering	3
TOTAL		55

Semester II

Code	Title	Credits
MEB 1201	Engineering Drawing II	8
MEB 1202	Computer Aided Drafting	6
MEB 1203	Machine Elements and Design II	6
MEB 1204	Manufacturing Engineering II	15

MEB 1205	Automotive Technology	12
MEB 1206	Mechatronics	6
MEB 1207	Power Production II	6
MEB IPT 1	Industrial Practical Training	10
TOTAL		69

B. UQF 7: Bachelor of Mechanical Engineering

Semester 1

Fundamental Courses		
Code	Name	Credits
GSB 2101	Engineering Maths. I(Linear Algebra &Analysis)	6
GSB 2201	Communication Skills	3
EEB 2205	Electrical Machines	6
Sub Total Credit		15
Core Courses		
MEB 2101	Computer Aided Drafting	9
MEB 2102	Strength of Materials I	7
MEB 2103	Mechanics of Machines	6
MEB 2104	Engineering Thermodynamics	6
MEB 2105	Machine Elements and Design I	7
MEB 2106	Workshop Technology	7
TOTAL		57

Semester II

Fundamental Courses		
Code	Name	Credits
GSB 2102	Eng. Maths. II (Advanced Calculus)	6
COB 2102	Computer Networking	7
Sub Total Credit		13
Core Courses		
MEB 2207	Machine Elements and Design II	7
MEB 2208	Strength of Materials II	7
MEB 2209	Materials Technology	6
MEB 2210	Fluid Mechanics	6
MEB 2211	Industrial Management	6
IPTB 2212	Industrial Practical Training	10
Sub Total Credits		42
TOTAL		55

Semester III

Fundamental Courses		
Code	Name	Credits
GSB 3103	Eng. Maths. III (Differential Equations)	6
GSB 3131	Entrepreneurship	4
		10
Core Courses		
MEB 3113	Systems Reliability and Plant Maintenance	7
MEB 3114	Dynamics of Mechanical Structures	7
MEB 3115	Finance and Human Resources Management	6
MEB 3116	Industrial energy Management	6
MEB 3117	Metal cutting and Machine tools I	7
MEPR 3118	Project I	11
Sub Total Credits		43
TOTAL		53

Semester IV

Fundamental Courses		
Code	Name	Credits
GSB 3204	Eng. Maths. IV (Numerical and Statistics Analysis)	6
Total Credit		6
Core Courses		
MEB 3219	Industrial Automation	6
MEB 3220	Engineering Design	6
MEB 3221	Computer Aided Engineering (CAE)	9
MEB 3222	Engineering Operations Management	6
MEB 3223	Heat Transfer	7
MEB 3224	Metal Cutting and Machine Tools II	7
MEPR3225	Project II	11
IPT II 3226	Industrial Practical Training	10
Sub Total Credits		62
TOTAL		68

C. UQF 8: Bachelor of Mechanical Engineering

Semester 1

Core Courses		
Code	Name	Credits

MEB 4101	Control Systems Engineering	4
MEB 4102	Fluid Power and Control	6
MEB 4103	Power Plants	6
MEB 4104	Material Handling Design	6
MEB 4105	Turbo Machinery	6
MEB 4106	Production Engineering	4
MEB 4107	Refrigeration Machine and Air conditioning III	6
MEB 4108	Engine Design Technology I	6
SPR 8109	Senior Project I	18
TOTAL CREDITS		62

Semester II

Core Courses		
Code	Name	Credits
MEB 4210	Quality Assurance and Control	4
MEB 4211	Renewable Energy Technologies	6
MEB 4212	Engineering Ethics and Professional Conduct.	4
MEB 4213	Automation and Robotics	6
MEB 4214	Engine Design Technology II	6
MEB 4215	Foundry Technology	4
MEB 4216	Refrigeration and Air Conditioning IV	6
MEB 4217	Computer Aided Manufacturing (CAM)	6
SPR 8218	Senior Project II	18
GSB8206	Entrepreneurship for Engineers	6
TOTAL		66

8.6.2 DEPARTMENT OF BUSINESS MANAGEMENT

Programmes

The Department offers two (2) programmes:

- i. Diploma in Business Administration
- ii. 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

8.6.2.1 LIST OF STAFF

(Head of Department)

Makebe Majogoro

MBA (Tumaini), BSc.Ed (UDSM)

Assistant Lecturers

Makebe Majogoro

MBA (Tumaini), BSc.Ed (UDSM)

Jacob Lupia

MBA (Tumaini), BSc.Ed (UDSM)

Baraka Nkonko

MA (Linguistics) (UDSM); BED (English & Linguistics) (UDSM)

8.6.2.2 PROGRAMME COURSES**DIPLOMA IN BUSINESS ADMINISTRATION****D. Diploma in Business Administration (1st Year)****Semester I**

CODE	TITLE	CREDITS
SB 411	Elementary Business Mathematics	10
SB 412	Introduction to Supervisory Skills	10
SB 413	Elementary Economics	10
SB 414	Basic Communication Skills	10
SB 415	Introduction to Computers	10
SB 416	Introduction to Environmental Studies	10
TOTAL		60

Semester II

CODE	TITLE	CREDITS
SB 421	Introduction to Entrepreneurship	10
SB 422	Basic Procurement and Supply	10
SB 423	Elements of Commerce	10
SB 424	Principles of Salesmanship	10
SB 425	Basic Bookkeeping	10
SB 426	Field Practical	10
TOTAL		60

E. Diploma in Business Administration (2nd Year)**Semester I**

CODE	TITLE	CREDITS
SB 511	Introduction to Management Principles	10
SB 512	Introduction to Business Law and Ethics	10
SB 513	Introduction to Marketing	10
SB 514	Introduction to Economics	10
SB 515	Business Communication	10
SB 516	Business Mathematics and Statistics	10

TOTAL	60
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Semester II

CODE	TITLE	CREDITS
SB 521	Small Business Management	10
SB 522	Introduction to Financial Accounting	10
SB 523	Information and Computer Technology	10
SB 524	Introduction to Environmental Economics	10
SB 525	Sales Management	10
SB 526	Procurement and Supply	10
SB 528	Field Practical	10
TOTAL		70

F. Diploma in Business Administration (3rd Year)

Semester I

CODE	TITLE	CREDITS
SB 611	Economics	10
SB 612	Financial and Cost Accounting	10
SB 613	Principles of Marketing	10
SB 614	Human Resources Management	10
SB 615	Introduction to Quantitative Methods	10
SB 616	Entrepreneurship	10
TOTAL		60

Semester II

CODE	TITLE	CREDITS
SB 621	Introduction to International Marketing	10
SB 622	Financial Management	10
SB 623	Introduction to Business Environment	10
SB 624	Logistics and Transportation Management	10
SB 625	Introduction to Production Management	10
SB 626	Basic Research Methods	10
TOTAL		60

BACHELOR OF BUSINESS ADMINISTRATION

D. Bachelor of Business Administration (1st Year)

Semester I

Code	Name	Credits
BMH 07101	Communication Skills	09

BMH 07102	Development Studies	09
BMH 07103	Microeconomics	09
BMH 07104	Business Mathematics	10
PSH 07101	Procurement and Supply	10
HRH 07101	Principles of Management	10
MKH 07101	Principles of Marketing	10
TOTAL		67

Semester II

Code	Name	Credits
BMH 07204	Information and Communication Technology	8
BMH 07205	Macroeconomics	9
FAH 07201	Principles of accounting	10
FAH 07202	Cost Accounting	10
BMH 07207	Introduction to Business laws	09
MKH 07209	Theories of Entrepreneurship	09
BMH 07203	Business Communication	09
TOTAL		74

E. BBA – Procurement and Supply Chain Management (2nd Year)

Semester III

Code	Name	Credits
PSH 07302	Procurement Principles and Management	09
PSH 07304	Warehousing Management	09
PSH 07303	E-Procurement and E- Supply Chain Management	10
HRH 07310	Orgazational Behaviour	09
BMH 07309	Project Management	09
BMH 0710	Quantitative Techniques	09
BMH 07312	Managerial Economics	09
BMH 07311	Consultancy Service Management	09
TOTAL		64

B. BBA – Marketing and Entrepreneurship (2nd Year)

Semester III

Core Courses		
Code	Name	Credits
MKH 07303	Small Business Management	10
MKH 07304	Sales Management	10
PSH 07308	E-Procurement and E – Supply Chain Management	10
BMH 07313	Project Management	10
BMH 07312	Managerial Economics	10

BMH 07310	Quantitative Techniques	10
Elective Course		
FAH 07305	Money and Banking	9
PSH 07304	Warehousing Management	9
TOTAL		69

F. BBA – Human Resource Management (2nd Year)

Semester III

Code	Name	Credits
HRH 07302	Principle of Human Resource Management	10
HRH 07303	Human Resource Planning	10
HRH 07304	Human Resource Staffing	9
HRH 07306	Human Resource Training and Development	10
BMH 07312	Managerial Economics	10
BMH 07310	Quantitative Techniques	10
BMH 07313	Project Planning	10
TOTAL		69

B. BBA – Accounting and Finance (2nd Year)

Semester III

Code	Name	Credits
FAH 07302	Financial Accounting	8
FAH 07303	Auditing and Assurance Services	9
FAH 07306	Contemporary Issues in Accounting	9
FAH 07307	Intermediate Accounting	8
FAH 07308	Public Finance and Taxation	8
FAH 07306	Financial Management	8
BMH 07310	Quantitative Techniques	8
		09
TOTAL		67

B. BBA – Procurement and Supply Chain Management (2nd Year)

Semester IV

Core Courses		
Code	Name	Credits
PSH 07405	Public Procurement	10
PSH 07406	Inventory Control and Management	10
PSH 07407	Strategic Procurement	10
PSH 07408	Principles of Store Administration	09
BMH 07412	Research Methodology	09

BMH 07413	Managerial Economics	09
BMH 07117	Field Practical Training 1	8
TOTAL		74

B. BBA – Marketing and Entrepreneurship (2nd Year)**Semester IV**

Code	Name	Credits
MKH 07406	Business Planning and Development	9
MKH 07407	Creativity and Innovation in Business	10
MKH 07405	International Business	10
MKH 07410	E- Marketing Infrastructure	9
FAH 07408	Management Accounting	10
BMH 07411	Research Methodology	10
HRH 07411	Production Management	10
BMH 07117	Field Practical Training	8
TOTAL		69

B. BBA – Human Resource Management (2nd Year)**Semester IV**

Core Courses		
Code	Name	Credits
HRH 07307	Leadership in Human Resource Management	10
HRH 07408	Career Planning and Management	9
HRH 07409	Employment and Labour Relations	9
FAH 07408	Management Accounting	10
BMH 07411	Research Methodology	10
HRH 07411	Production Management	10
BMH 07117	Field Practical Training	8
Elective Course		
MKH 07406	Business Planning and development	10
MKH 07405	International Business	10
TOTAL		76

B. BBA – Accounting and Finance (2nd Year)**Semester IV**

Code	Name	Credits
FAH 0410	Advanced Financial Accounting	9
FAH 07411	Corporate Finance	8
FAH 07412	Advance Public Finance and Taxation	8

FAH 07413	Public Sector Accounting	9
FAH 07413	Managerial Economics	9
FAH 07411	Financial Management	9
FAH 07403	Cost Accounting	10
BMH 07412	Research Methodology	9
BMH 07117	Field Practical Training I	8
TOTAL		79

C. Bachelor of Business Administration (3rd Year)
BBA – Procurement and Supply Chain Management
Semester I

Code	Name	Credits
BMB 08116	Research Project	32
BMB 08115	Field Practical Training II	20
TOTAL		52

BBA – Marketing and Entrepreneurship (3rd Year)
Semester I

Code	Name	Credits
BMB 08116	Research Project	32
BMB 08115	Field Practical Training II	20
TOTAL		52

BBA – Human Resource Management (3rd Year)
Semester I

Code	Name	Credits
BMB 08116	Research Project	32
BMB 08115	Field Practical Training II	20
TOTAL		52

BBA – Accounting and Finance (3rd Year)
Semester I

Code	Name	Credits
BMB 08116	Research Project	32
BMB 08115	Field Practical Training II	20
TOTAL		52

BBA – Procurement and Supply Chain Management (3rd Year)**Semester II**

Code	Name	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
FAB 082018	Management Accounting	9
PSB 08214	Principles of Clearing and Forwarding	9
FAB 08215	Risk Management	9
TOTAL		17

BBA – Marketing and Entrepreneurship (3rd Year)**Semester II**

Code	Name	Credits
MKB 08211	Service Marketing	10
MKB 08212	Consumer Behaviour	10
MKB 08213	Marketing Research	10
MKB 08214	E- Marketing Process	9
MKB 08215	Strategic Marketing	10
BMB 08208	Business Communication	10
MKB 08216	Consumer Marketing and Brand Management	10
TOTAL		69

BBA – Human Resource Management (3rd Year)**Semester II**

Code	Name	Credits
HRB 08212	Occupation Health and Safety	7
HRB 08213	Employments and Labour Laws	7
HRB 08214	Human Resources Management Information Systems	8
HRB 08215	Compensation and Performance Management	7
HRB 08218	Organizational Behaviour	10
BMB 08208	Business Communication	10
HRB 08217	Management Consultancy Skills	10

HRB 08210	Strategic Management	10
TOTAL		69

BBA – Accounting and Finance (3rd Year)**Semester II**

Code	Name	Credits
FAB 08215	Accounting and Software Package	9
FAB 08216	Advanced Cost Accounting	9
FAB 08217	Advance Accounting II	9
FAB 08218	Microfinance Management	9
FAB 08215	Management Accounting	9
FAB 08219	International Finance	9
FAB 08210	International Business Management	9
FAB 08220	Advanced Auditing and Assurance	9
TOTAL		72

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)

MUST Consultancy Bureau (MCB) was established in November, 2007 with the aim of coordinating the use of the expertise and other resources in the University to contribute effectively to the industrial and Socio-economic development of Tanzania.

Emphasis is placed on providing complete comprehensive and integrated consultancy services. On the other hand, MCB aims at promoting effective entrepreneurship and usage of appropriate technology that meet national and international needs and standards through skills and practical oriented training and consultancy.

9.3 MUST CONSULTANCY BUREAU (MISTECO)

MIST Engineering Contractors (MISTECO) 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.

9.4 INDUSTRIAL LIAISON OFFICE (ILO)

The office of the Industrial Liaison Officer (ILO) is responsible for coordinating Students' Industrial/Field Practical Training (IPT/FPT). The IPT/FPT is recognized as a course module and is conducted often after completing the class modules. The IPT/FPT 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.

9.5 UNIVERSITY FACILITIES

9.5.1 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.

9.5.2 CAFETERIA

The University provides meals to Ordinary 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.

9.5.3 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 costs.

9.5.4 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.

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 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 no-degree programme studied for a minimum of 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.
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

	regulations regarding the given examinations.
Invigilator	Refers to a person monitoring candidates 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.
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 a 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.

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.

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 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.

- 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 in the examination room; shall be deemed 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 the question paper will be treated as an unauthorized material(s).
- 10.2.3.21 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/Dean 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 candidate 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.

- 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;

(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) in a course(s) shall apply for and 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.

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).

10.2.6 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 special and supplementary 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.

10.3 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 examination without genuine reason(s) shall be treated as absconded and eventually discontinued from studies.
- 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 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.

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, Principals/Deans 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 shall be final.

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.

10.6 AWARD OF ACADEMIC CERTIFICATES AND TRANSCRIPTS

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	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		4.4 – 5.0
	Upper	3.5 – 4.3
Second Class	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.

$$\text{Overall GPA} = \frac{\text{Sum of } (P \times C)}{\text{Sum of } C}$$

(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.

$$\text{Cumulative GPA} = \frac{\text{Sum of } (P \times C)}{\text{Sum of } C}$$

Where;

P: Grade points assigned to a letter grade scored by the student in 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.

10.6 REPLACEMENT OF ACADEMIC TRANSCRIPTS AND CERTIFICATES**10.6.1 Procedures for Replacement of Academic Transcripts and Certificates**

10.6.1.1 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:

- (i) Producing the evidence of the loss from the police;
- (ii) Producing evidence of the public announcement from the Government Gazette;
- (iii) Producing a sworn affidavit.

10.6.1.2 The certificate shall be issued until a period of 12 months has elapsed from the date of such a loss.

10.6.1.3 The transcript shall be issued until a period of one month has elapsed from the date of such a loss.

10.6.1.4 The 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.

10.7 REVIEW OF UNDERGRADUATE EXAMINATION REGULATIONS

These Examination Regulation are subject to review from time to time as need arises.