



Mbeya University of Science & Technology (MUST)



PROSPECTUS

2015/2016 - 2017/2018

Endeavouring to Lead in Science and Technology



PROSPECTUS

2015/2016 – 2017/2018

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1.0 INTRODUCTION

1.1 VICE CHANCELLOR'S MESSAGE

Mbeya University of Science and Technology (MUST) provides Technical Education, Research and Consultancy services. Due to rapid technological changes in the world today in many fields, there are ever widening technical skill gaps in the labour market 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 (Rukwa Campus) 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. The Rukwa Campus of Mbeya University of Science and Technology 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. However, some of the Programmes at the University are accredited by NACTE.

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. WaterNet

1.7 SENIOR OFFICERS OF THE UNIVERSITY

Chancellor

Hon. Prof. Mark Mwandosya, PhD in Electrical & Electronics Eng. (UK), BSc. (Engineering) Hons (UK).

Chairperson of the University Council

Prof. Penina Mlama, PhD in Language and Linguistics (UDSM), BA in Theater Arts, a BA in Education (UDSM).

1.8 MEMBERS OF THE COUNCIL

Prof. Penina Mlama

Chairperson of the Council

Prof. Joseph Msambichaka

Vice Chancellor (ex-officio)

Prof. Emmanuel Luoga

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

Prof. Osmund Kaunde

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

Prof. Evelyne Mbede

Ministry of Communication, Science and Technology

Chairman of MUST Academic Staff Association (MUSTASA)

President of MUST Students' Organization (MUSTSO)

Mr. Augustine K. Ollal

Ministry of Finance

Dr. Haji Mwevura Haji

State University of Zanzibar

Mr. Julius Kerenge

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

Eng. Peter Chisawilo

CEO- Tanzania Chamber of Commerce, Industry and Agriculture (TCCIA)

Ms. Saumu Mruke

Corporate Counsel

1.9 EXECUTIVE OFFICERS OF THE UNIVERSITY

Vice-Chancellor (VC)

Prof. Joseph Msambichaka - PhD (Dortmund), MSc. (UDSM), BEng. (Mysore)

Deputy Vice - Chancellor Academic, Research and Consultancy (DVC- ARC)

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

Deputy Vice- Chancellor Planning, Finance and Administration (DVC- PFA)

Prof. Emmanuel J. Luoga - PhD (Wits), MSc. (AUN), BSc. (SUA), Dip (Olmotonyi)

Principal of College of Engineering and Technology

Dr. Naiman Lemeruit - PhD (MSAU, Russia), MSc Mech. Eng. (MAEI, USSR). Tech. Ed. (Morogoro)

Principal of Institute of Science and Technology

Mr. Guido Kayuki, MSc. (UDSM), BSc. Ed (UDSM)

Dean of School of Business Studies

Mr. Andrew Kasasi, MSc (UDSM), BSc. (Ed) (UDSM), Dip. Ed (Mkwawa)

Principal of Rukwa Campus

Mr. Boniface Shayo, MEM, PGD (UDSM), AD BEcon (Ardhi Inst.)

Director of Undergraduate Studies

Dr Noel Mbonde, PhD Mech. (CPUT, SA), MSc. Mech. Eng. (DSTU, USSR)

Director of Administration and Human Resource Management

Dr Alexander Mtawa, PhD Mech. Eng. (CPUT, SA), Msc. Mech. Eng. (SOFIA, Bulgaria), FTC Mech. Eng. (ATC)

Director of Quality Assurance and Quality Control

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

Chief Internal Auditor

Mr. Deusdedit Sinda - CPA (T), Diploma in accountancy (slet), ADA (IFM)

Chief Accountant

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

Chief Planning Officer

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

Dean of Students

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

Head of Library Services

Mr. Novatus Luanda - MA. (UDSM), BA. (UDSM), Dip. (Nyegezi)

Head of Research and Publication

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

Head of MUST Consultancy Bureau (MCB)

Eng. Joseph Mkisi - MSc. (Sofia Bulgaria),

Corporate Counsel

Ms. Saumu Mruke – LLM (Ruaha), LLB (Mzumbe)

1.10 ACADEMIC ORGANS

Mbeya University of Science and Technology consists of one College, one School, one Institute and three Centres.

1.10.1 DEPARTMENTS UNDER THE COLLEGE OF ENGINEERING AND TECHNOLOGY

- i. Department of Information and Communication Technology
- ii. Department of Electronics and Telecommunication Engineering
- iii. Department of Energy and Production Engineering
- iv. Department of Built Environment Engineering
- v. Department of Settlement Planning and Designing Technology

1.10.2 DEPARTMENTS UNDER THE INSTITUTE OF SCIENCE AND TECHNOLOGY

- i. Department of Architecture
- ii. Department of Civil Engineering
- iii. Department of Computer Engineering
- iv. Department of Electrical and Electronic Engineering
- v. Department of Mechanical Engineering
- vi. Department of Science and Business Management

1.10.3 DEPARTMENT UNDER THE SCHOOL OF BUSINESS STUDIES

Department of Business Management

1.11 CONTACT ADDRESSES AND TELEPHONE NUMBERS

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MUST Dispensary.

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Admissions Office

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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, Kilimanjaro International Institute of Telecommunications, Electronics and Computer (KIITEC), Commonwealth of Learning (COL), Bielefeld University of Applied Science of Germany, Technical University of Dortmund of Germany, Dar es Salaam Institute of Technology (DIT), Tanzania Atomic Energy Commission (TAEC), Sokoine University of Agriculture (SUA), Mbeya Referral Hospital(MRH) and Arusha Technical College (ATC).

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 Office of the Dean of Students is responsible for students' administration, personal and social welfare of the students at the University. The Dean of Students is assisted by matrons/wardens, students' counselors and janitors.

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 counseling in social and religious issues.

1.14.3 RESIDENCE

During a semester session, students may either be accommodated in University hostels or 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 five hostel blocks which can accommodate about 2400 students. Priority for in-campus accommodation is given to government sponsored Ordinary 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/Institute/School boards, Senate and University Council. MUSTSO under leadership of its Chairperson 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, tennis, netball, 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 Games (EAUG), East, Central and Southern African Universities Sports Association (ECSAUSA), the Federation of African University Sports (FASU) and Federation of International University Sports (FISU), Shirikisho la Michezo ya Vyuo vya Elimu ya Juu Tanzania (SHIMIVUTA).

1.14.6 CATERING SERVICES

Catering services at the University are free for Ordinary 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. 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 contain various book collections catering for various courses in the fields of Engineering, Science, Technology, 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 DEGREE, DIPLOMA AND CERTIFICATE AWARDS

2.1 DEGREES OFFERED BY THE COLLEGE OF ENGINEERING AND TECHNOLOGY

- i. Bachelor of Electrical and Electronic Engineering
- ii. Bachelor of Mechanical Engineering

- iii. Bachelor of Civil Engineering
- iv. Bachelor of Computer Engineering
- v. Bachelor of Technology in Architecture

2.2 ORDINARY DIPLOMA OFFERED BY THE INSTITUTE OF SCIENCE AND TECHNOLOGY

- i. Ordinary Diploma in Architecture
- ii. Ordinary Diploma in Electrical and Electronic Engineering
- iii. Ordinary Diploma in Electronics and Telecommunication Engineering
- iv. Ordinary Diploma in Mechanical Engineering
- v. Ordinary Diploma in Safety Engineering
- vi. Ordinary Diploma in Mechatronic Engineering
- vii. Ordinary Diploma in Civil Engineering
- viii. Ordinary Diploma in Mining Engineering
- ix. Ordinary Diploma in Computer Engineering
- x. Ordinary Diploma in Computer Science
- xi. Ordinary Diploma in Information and Communication Technology
- xii. Ordinary Diploma in Laboratory Science and Technology
- xiii. Ordinary Diploma in Food Science and Technology
- xiv. Ordinary Diploma in Business Administration

2.3 DEGREE OFFERED BY THE SCHOOL OF BUSINESS STUDIES

Bachelor of Business Administration

Bachelor of Science with Education

3.0 ACTIVITIES UNDER THE DEPARTMENT OF DISTANCE 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 ORDINARY DIPLOMA PROGRAMMES

- i. Chancellor's prize: Best overall finalist
- ii. University Prize: Best overall finalist female student
- iii. Award to be set by the University.

4.2 UNDERGRADUATE PROGRAMMES

- i. Chancellor's prize: Best overall finalist
- ii. University Prize: Best overall finalist female student
- iii. 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 Ordinary Diploma Programmes (NTA Level 4-6) may join the University under either Government sponsorship or private sponsorship. Students pursuing Bachelor Programmes (UQF Level 6-8) 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 Ordinary Diploma government sponsored students in (Tshs)

S/N	Item	NTA 4	NTA 5	NTA 6
1.0	Tuition fee (cost sharing fee)	130,000	130,000	130,000
2.0	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	5,000	5,000	5,000
ix	Student's Identity Card	5,000	5,000	5,000
x	Medical Contribution (NHIF)	50,800	50,800	50,800
xi	Student's Relief Fund	5,000	-	-
xii	Prospectus	3,000	-	-
xiii	Quality Assurance fee (NACTE)	15,000	15,000	15,000
	Subtotal of other Expenses	253,800	185,800	185,800
	Total fees	383,800	315,800	315,800

5.1.2 PRIVATE SPONSORED STUDENTS

Table 2: Fee structure for Ordinary Diploma (NTA4) private sponsored students in (Tshs)

S/N	Item	In campus		Off campus
		<i>Meals and accommodation</i>	<i>Accommodation only</i>	
1	Tuition fee	900,000	900,000	900,000
2.0	Other Expenses			
i	Meal Costs	1,102,500		
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	5,000	5,000	5,000
ix	Student's Identity Card	5,000	5,000	5,000
x	Medical Contribution (NHIF)	50,800	50,800	50,800
xi	Student's Relief Fund	5,000	5,000	5,000
xii	Prospectus	3,000	3,000	3,000
xiii	Quality Assurance fee (NACTE)	15,000	15,000	15,000
	Sub-total of other Expenses	1,443,400	340,900	233,800
	Total fees	2,343,400	1,240,900	1,133,800

Table 3: Fee structure for Ordinary Diploma (NTA5 and NTA 6) 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	1,071,000	-	-
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	5,000	5,000	5,000
ix	Student's Identity Card	5,000	5,000	5,000

x	Medical Contribution (NHIF)	50,800	50,800	50,800
xi	Student's Relief Fund	-	-	-
xii	Prospectus	-	-	-
xiii	Quality Assurance fee (NACTE)	15,000	15,000	15,000
	Sub-total ; Other Expenses	1,343,900	272,900	165,800
	Total fees	2,243,900	1,172,900	1,065,800

5.2 FEES STRUCTURE FOR BACHELOR DEGREE PROGRAMME FULL-TIME STUDENTS

5.2.1 COSTS PAYABLE TO THE UNIVERSITY BY BACHELOR DEGREE STUDENTS (3 YEARS PROGRAMMES)

Table 4: University's Fees and Other Expenses for Bachelor Degree students under 3 years programme 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	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
vi.	Certification	40,000	-	-
vii.	Students' Organization	10,000	10,000	10,000
viii.	Registration	5,000	5,000	5,000
ix.	Student's Identity Card	5,000	5,000	5,000
x.	Medical Contribution (NHIF)	50,800	50,800	50,800
xi.	Student's Relief Fund	5,000	-	-
xii.	Prospectus	3,000	-	-
xiii.	Quality Assurance fee (TCU)	20,000	20,000	20,000
	Sub-total; Other Expenses	415,500	347,500	347,500
	Total fees (Shs)	1,515,500	1,447,500	1,447,500

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

5.2.2 COSTS PAYABLE TO THE UNIVERSITY BY BACHELOR DEGREE STUDENTS (4 YEARS PROGRAMMES)

Table 5: University's Fees and Other Expenses for bachelor degree students under 3 years programme in (Tshs)

S/N	Description	UQF 6 (1 st Year)	UQF7-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	1,100,000
2.0	Other Expenses				
i.	Caution Money	20,000	-	-	-
ii.	Hiring University's Mattress*				
iii.	Hiring University's Bed	107,100	107,100	107,100	107,100
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	5,000	5,000	5,000	5,000
ix.	Student's Identity Card	5,000	5,000	5,000	5,000
x.	Medical Contribution	50,800	50,800	50,800	50,800
xi.	Student's relief Fund	5,000	-	-	-
xii.	Prospectus	3,000	-	-	-
xiii.	Quality Assurance fee (TCU)	20,000	20,000	20,000	20,000
S	Sub-total; Other Expenses	415,500	347,500	347,500	347,500
	Total (Shs)	1,515,900	1,447,900	1,447,900	1,447,900

5.2.3 COSTS PAYABLE DIRECTLY TO THE STUDENTS BY SPONSORS

Table 6: Costs payable direct to the students by sponsors for Bachelor Degree 3 Years Programmes in (Tshs)*

S/N	Description	UQF 7-I	UQF-7-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 7: Costs payable direct to the students by sponsors for Bachelor Degree 4 Years Programmes in (Tshs)*

S/N	Description	UQF 6	UQF 7-I	UQF-II	UQF 8
1	Industrial Practical Training (IPT)	700,000	700,000	700,000	-
2	Book / Stationery costs	200,000	200,000	200,000	200,000
3	Final project Printing	0	0	0	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 6 and 7 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 2015/2016 FEES AND OTHER DIRECT COSTS PAYABLE TO THE UNIVERSITY

S/N	ITEM	Diploma Programmes			Bachelor Degree Programmes			
		NTA 4	NTA 5	NTA 6	UQF 6-8			
		USD	USD	USD	Year 1	Year 2	Year 3	Year 4
		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 (NHIF), Student's Relief Fund, Prospectus, NACTE Registration</i>)	500	450	450	500	450	450	450
Total		2,370	2,290	2,290	2,530	2,450	2,450	2,450

5.2.4.1 INDICATIVE STIPEND AND OTHER ALLOWANCES PAYABLE TO FOREIGN STUDENTS

		ORDINARY DIPLOMA STUDENTS	BACHELOR DEGREE STUDENTS
S/N	ITEM	USD	USD
	Accommodation (Annually)	300	300
	Meals (Annually)	1,500	1,500
	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 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.

6.2 APPLICATION FEES

Applicants must pay an application fee to be determined by the Council from time to time. Fees shall be payable to:

**The Vice-Chancellor,
Mbeya University of Science and Technology,
P.O. Box 131
Mbeya, Tanzania.**

The application forms duly filled, must reach the Vice-Chancellor not later than the deadline set for application submission.

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 candidate 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 all Programmes will begin in October every year, and shall end as indicated by the University 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. Beginners shall have to submit original certificates on the registration day.

6.7 CHANGE OF COURSES

Except in exceptional circumstances, no student under Diploma and Bachelor Programmes will be allowed to change courses later than three weeks after the beginning of the first semester for the undergraduate students and the second week of the quarter of the Programme of study for graduate 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 if s/he is to be allowed for re-admission to the same year of study. Otherwise, the student will be required to re-apply into the first year.

6.10 ADMISSION REQUIREMENTS FOR ORDINARY DIPLOMA PROGRAMMES

6.10.1 ENTRY REQUIREMENTS

Applicants may join Ordinary Diploma Programmes through direct or indirect entry schemes.

6.10.2 DIRECT ENTRY REQUIREMENTS

- For engineering and Technology applicants; Possession of Certificate of Secondary Education Examination (CSEE) with a minimum average pass of C grade in Mathematics, Physics/ Engineering Science and Chemistry.
- Holder of Certificate of Secondary Education (CSEE) with a minimum average of D grade in five subjects, two of which must be Mathematics and Physics/ Engineering Science, with possession of TRADE TEST GRADE I / NVA LEVEL III issued by VETA.
- For candidates applying for Laboratory Science and Technology and Food Science and Technology, Possession of Certificate of Secondary Education Examination (CSEE) with a minimum average pass of C grade in Physics / Engineering Science/ Mathematics, Biology and Chemistry.
- For candidates applying for Ordinary Diploma in Business Administration, Possession of Certificate of Secondary Education (CSEE) with a minimum average pass of D grade in at least three subjects

6.10.3 INDIRECT ENTRY REQUIREMENTS

A. **Pre-entry access course for ordinary diploma in engineering, architecture, food science and laboratory technology**

The Pre-entry program targets female applicants who do not qualify under direct entry scheme for admission to Ordinary Diploma Programs; Males applicants may also apply.

Upon passing the final examinations, female applicants with outstanding performance may be sponsored by the Government whereas, male applicants and remaining female applicants will be required to arrange for their own private sponsorship.

a) **Course Duration:** 10 weeks

b) **Pre-Entry Requirements:**

- i. Possession of Certificate of Secondary Education (CSEE) with a minimum average of **D grade in FIVE subjects including Mathematics, Chemistry, Physics/Engineering Science and Biology;**

OR

- ii. Holder of Certificate of Secondary Education (CSEE) with a minimum average of **D grade** in at least three subjects, two of which must be Mathematics and Physics/ Engineering Science, with possession of **TRADE TEST GRADE II / NVA LEVEL II issued by VETA.**

B. Mature age entry scheme for Ordinary Diploma in Engineering and Architecture, Food Science and Technology and Laboratory Science and Technology.

In order to qualify for the examination a candidate must meet the following qualifications:-

- i. Must be aged **25 years** and above.
- ii. Possession of Certificate of Secondary Education with a minimum average of **D grade in FIVE subjects** including Mathematics, Chemistry, Physics/Engineering Science and Biology

OR

- i. Holder of certificate of secondary education (CSEE) with a minimum average of **D grade** in at least three subjects, two of which must be Mathematics and Physics/ Engineering Science, with possession of **TRADE TEST GRADE I / NVA LEVEL III issued by VETA.**

6.11 ADMISSION REQUIREMENTS FOR BACHELOR DEGREE PROGRAMMES

The following are the minimum entry requirements for undergraduate 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	Two passes and at least one E in any ACSEE subjects Excluding religious Studies	Holders of Ordinary Diploma (NTA Level 6) in Business Management or Business Administration, or Education, Engineering, Law, Accountancy, Marketing with at least a GPA of 3.0	5 passes at O' level	2.5	3
2	Bachelor of Civil Engineering	Two passes in Mathematics, Physics and Chemistry	Holders of Ordinary Diploma (NTA Level 6) in Civil or Transportation or Water Supply and Sanitation (Bias in Construction) or Civil and Irrigation Engineering with at least a GPA of 3.0 OR Full Technician Certificate (FTC) in Civil or Transportation Management or Water Supply and Sanitation (with a Bias in Construction) or Civil and Irrigation Engineering with at least average of C grade at 3.0 points	One of the passes must be in Mathematics 5 passes at O' level	2.0	3 years for Ordinary diploma 4 years for Form VI

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)
3	Bachelor of Electrical & Electronics Engineering	Two passes in Mathematics, Physics and Chemistry	Holders of Ordinary Diploma (NTA Level 6) in Electrical or Electronics and Telecommunication Engineering with at least a GPA of 3.0 OR Full Technician Certificate (FTC) in Electrical or Electronics and Telecommunication Engineering with at least average of C grade at 3.0 points	One of the passes must be in Mathematics 5 passes at O' level	2.0	3 years for Ordinary diploma 4 years for Form VI
4	Bachelor of Technology in Architecture	Two passes in Mathematics, Physics and Chemistry or Geography OR Two passes in Mathematics, Economics and Geography	Holders of Ordinary Diploma (NTA Level 6) in Architecture or Engineering with at least a GPA of 3.0 OR Full Technician Certificate (FTC) in Architecture or Civil Engineering, all with at least average of C grade at 3.0 points	One of the passes must be in Mathematics 5 passes at O' level	2.0	3 years for Ordinary diploma 4 years for Form VI

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)
5	Bachelor of Mechanical Engineering	Two passes in Mathematics, Physics and Chemistry	Holders of Ordinary Diploma (NTA Level 6) in Mechanical or Automotive or Automobile or Autoelectric and Electronics Engineering with at least a GPA of 3.0 OR Full Technician Certificate (FTC) in Mechanical or Automotive or Automobile Engineering with at least average of C grade at 3.0 points	One of the passes must be in Mathematics 5 passes at O' level	2.0	3 years for Ordinary diploma 4 years for Form VI
6	Bachelor of Computer Engineering	Two passes in Mathematics, Physics and Chemistry	Holders of Ordinary Diploma (NTA Level 6) in Computer Engineering/Science with at least a GPA of 3.0 OR Full Technician Certificate (FTC) in Computer Engineering/Science with at least average of C grade at 3.0 points	One of the passes must be in Mathematics 5 passes at O' level	2.0	3 years for Ordinary diploma 4 years for Form VI

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 from MUST website <http://www.mist.ac.tz>.

8.0 COURSES OFFERED IN VARIOUS PROGRAMMES

8.1 INSTITUTE OF SCIENCE AND TECHNOLOGY (IST)

8.1.1 ARCHITECTURE DEPARTMENT

Programmes

The Department offers the following Programmes:

- i. Basic Technician in Architecture– NTA Level 4 (1 year Programme).
- ii. Technician in Architecture - NTA Level 5 (1 year Programme).
- iii. Ordinary Diploma in Architecture –NTA Level 6 (1 year Programme).

8.1.1.1 LIST OF STAFF

Juma N. Julius B. Arch (UDSM), Dip. Ed (KLERRUU)

(Head of Department)

Assistant lecturers

Moses G. Moyo MSc. Struct-Mat (NM-AIST), BSc. Struct (UDSM)

Tutorial Assistants

Eric C. Mapunda B. Arch (UDSM)

Mbasa M. Segelela B. Arch (UDSM)

* Godfrey M. Lameck B. Arch (UDSM)

* Benjamin M. John	B. Arch (UDSM)
* Arnold K. Kashula	B. Arch (UDSM)
* Israel J. Mayage	B. Arch (UDSM)
*Ally A. Ally	BSc. BE (UDSM), Dip-Ed (ALHARAMAIN)
Ibrahim M.Charles	B. Arch (UDSM)
Benson V. Karumuna	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).
Kombo O.Kombo	Bsc-Ed (MUM)
Rosemary E. Kavishe	BSc. Civil (ST.JOSEPH UNIVERSITY)
Bushen G. Dome.	B.Ed-Math (TEKU)
Kamugisha J. Kajumulo	B. Arch (UDSM)
Blasius K. Venance	B. Tech-Arch (MUST), Dip. Arch (MIST)
Instructors	
Werner P.Hyera	BSc-Civil (MIST), Dip Tech-Ed (KLERRUU), FTC - Civil (DTC)
Gabriel N. Nicomedi	BSc. Landscape Arch (ARU)
Elvis F. Lyimo	BSc. Landscape Arch (ARU)
Assistant Instructors	
Josas.E Mwamasage	Dip-Arch (MUST)
Technicians	
Christopher J. Almasi	FTC-Arch (MTC)
*On study leave.	

8.1.1.2 COURSE MODULES

A. NTA LEVEL 4: Basic Technician in Architecture

Semester I

Fundamental modules		
Module code	Module name	Credit
SBT 04101	Basics of Calculus, Logarithms and Number	5
SBT 04102	systems	5
SBT 04103	Introduction to Mechanics	2
COT04105	Introduction to Technical Communication Basic computer application I	3

Core modules		
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		56

Semester II

Fundamental modules		
Module code	Module name	Credit
SBT 04201	Polynomials, Matrices and Binomial theorem	5
SBT 04202	Essentials of Mechanics	5
SBT 04203	Fundamentals of English Grammar	2
COT04210	Basic computer application II	2
Core modules		
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. NTA LEVEL 5: Technician in Architecture

Semester I

Fundamental Modules		
Module code	Module 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
GST05105	Basic computer Application III	2

Core modules		
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 Modules		
	Module 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
GST05205	Basic computer Application IV	2
Core Modules		
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. NTA LEVEL 6: Ordinary Diploma in Architecture

Semester I

Fundamental modules		
Module code	Module name	Credit
GSD06101	Advanced Mathematics V	4
GSD06102	Physical Sciences V	2
GSD06103	Communication Skills V	2
GSD06104	Entrepreneurship and development V	4
GSD06105	Basic Computer Application V	2

Core modules		
Module code	Module name	Credit
ARD 06101	Draughting Studio III	6
ARD06103	Computer Aided Design IV	5
ARD06104	Principles of Architectural Design III	6
ARD06105	Professional Practice and Management III	3
ARD06106	Arch Structures And Build Constr V	4
ARD06108	Construction Detailing III	3
ARD06112	Architectural Conservation(Elective)	5
ARD06113	Specifications	5
ARD06116	Interior Design (Elective)	5
ARD06118	Photography	3
ARD06124	Structural Design III	3
ARD06128	Project Part I	9
Total		71

Semester II

Fundamental modules		
Module code	Module name	Credit
GSD06201	Advanced Mathematics VI	4
GSD06202	Physical Sciences VI	2
GSD06203	Communication Skills VI	2
GSD06204	Entrepreneurship and development VI	4
GSD06205	Basic Computer Application VI	2
Core modules		
ARDO6217	Landscape Design	5
ARD06201	Draughting Studio V	6
ARD06204	Principles of Architectural Design VI	3
ARD06205	Professional Practice and Management IV	3
ARD06206	Arch Str and Building Construction VI	4
ARD06208	Construction Detailing IV	3
ARD06213	Settlement Planning and Urban Design	5
ARD06224	Structural Design IV	3
ARD06228	Project Part II	19
Total		65

8.1.2 DEPARTMENT OF CIVIL ENGINEERING

Programmes

The Department offers the following two Programmes:

- a) Civil Engineering
- b) Mining Engineering

The Civil Engineering programme includes:

- i. Basic Technician in Civil Engineering – NTA Level 4 (1 year Programme).
- ii. Technician in Civil Engineering - NTA Level 5 (1 year Programme).
- iii. Ordinary Diploma in Civil Engineering –NTA Level 6 (1 year Programme).

The Mining Engineering programme includes:

- i. Basic Technician in Mining Engineering – NTA Level 4 (1 year Programme).
- ii. Technician in Mining Engineering - NTA Level 5 (1 year Programme).
- iii. Ordinary Diploma in Mining Engineering –NTA Level 6 (1 year Programme).

8.1.2.1 LABORATORIES AND WORKSHOPS

- i. Pneumatic and Hydraulics laboratory
- ii. Carpentry and Joinery Workshop
- iii. Soil and Materials Testing Laboratory
- iv. Land and Surveying Laboratory
- v. Mining Laboratory

8.1.2.2 LIST OF STAFF

Mr. Omari Shegwando, MSc.Environ. Tech & Managm (ARU),. BSc. Environ. Eng. (UDSM) (*Head of Department*)

Assistant Lecturers

Mr. Asson S. Malisa-	MSc.Mater. Sci Eng, (NMAIST); Bsc. Civil (UDSM)
Mr. Ivor J. Ndimbo-	M.Tech. Water Resources Dev-(IIT-Roorkee INDIA); Bsc. Civil (UDSM)
Mr. Japhary J. Shengeza-	MSc. CEM (ARU); Bsc. Building Econ. (UDSM)

Mr. Mohamed J. Mohamed-	PGD. Transportation (UDSM); ADE. Civil (DIT); FTC. Civil (DAR TECH)
Mr. Hashimu H. Mnzava-	MSc.Mater. Sci Eng, (NMAIST); Bsc. Civil & Str. Eng. (UDSM)

Tutorial Assistants

Mr. Cyriacus J. Rugakingira-	BSc. Civil (UDSM); FTC. Civil (DAR TECH)
Mr. Peter N. Leiya-	BSc. Land Survey (UCLAS)
Mr. George C. Lyimo- (ATC)	BSc. Civil & Str. Eng. (UDSM); FTC. Civil
Mr. Mathew A. Gwao-	BSc. Land Survey (UCLAS)
Mr. Herfrid J. Mgeni-	ADE. Civil (MIST); FTC. Civil (MTC)
Mr. Venance R. Mwandupe-	Bsc. Civil (MIST); FTC. Civil (MTC)
Mr. Nickson N. Lushasi-	BSc. Mining (UDSM)
Mr. John P.M. Kachira-	BSc. Ed. (UDSM)
*Mr. Osmund E. Mwangupili-	BSc. Mining (UDSM)
Mr. Godfrey Mbungula -	BEng (MUST), FTC (DIT)
Ms. Christer B. Ruguga	Bsc. Ed (UDSM)
Mr Asifiwe Z. Swalo	BEng. Civil (MIST), OD. Civil (DIT)
Mr. Wilson L. Ngole	BSc. Mining (UDSM)
Ms Shamsa M. Nassibu	BEng. Civil (MUST), FTC. Civil(TCA)
* Mr. Oltingey Lindi	BSc. Mining (UDSM)

Instructors

Mr. George J. Nyaisonga-	AD BEcon. (Ardhi Inst.)
Mr. Godwin Z. Kabungo-	ADE. Civil (MTC); FTC. Civil (DAR TECH)
Mr. Justus P. Eliya-	Bsc. Civil (MUST); FTC. Civil (TCA)
Mr. Frank A. Mwakyembe-	Bsc. Mining (UDSM)
Mr. Moses D. Mazengo-	BEng. Civil (MUST); FTC. Civil (TCA)
Mr. Stephano S. Maduka-	Ord. Diploma in Transportation Eng. (ATC)
Mr. Kizito A. Ngowi-	Bsc. Urban &Reg. Planning (ARU); Ord. Diploma in Cartography (Ardhi Inst.-Tabora)

*Mr. Valentino A. Chaffu-	BEng. Civil (MIST); FTC. Civil (MTC)
*Mr. Samwel J. Kihogo-	ODE. Civil (MIST)
Mr. Abasi A. Hawaii	Bsc. Mining(UDSM)
Mr. Crodiwick W. Ruvunduka	Bsc. Civil(DIT), OD. Transportation Eng. (ATC)
Mr. Adamu Musa	Bsc. Mining(UDSM)

Technicians

Mr. Aaron J. Maganga	FTC in Water Laboratory Technology (Water Resources Institute)
Mr. Edson B. Rogasian	OD. Civil (MIST)
Mr. Alfred B. Nyngi	BEng. Civil (MUST), OD. Civil(ATC)

Artisans

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

*On study leave

8.1.2.3 COURSE MODULES

8.1.2.3.1 CIVIL ENGINEERING

A. NTA LEVEL 4: Basic Technician in Civil Engineering

Semester I

Fundamental Modules		
Module Code	Module 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 Modules	
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 Modules		
Module Code	Module Name	Credits
SBT 04201	Polynomials, Matrices and Binomial Theorem	4
SBT 04202	Essentials of Mechanics	4
SBT 04203	Fundamentals of English Grammar	3
COT 04210	Introduction To Spreadsheet And Word Processing Software	3
Core Modules		
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. NTA LEVEL 5: Technician in Civil Engineering**Semester I**

Fundamental Modules		
Module Code	Module 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 Modules		
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 Modules		
Module Code	Module 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 Modules		
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. NTA LEVEL 6: Ordinary Diploma in Civil Engineering

Semester I

Fundamental Modules		
Module Code	Module 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 Modules		
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 061115	Project – I	8
TOTAL		71

Semester -II

Fundamental Modules		
Module Code	Module Name	Credits
SBT 06201	Logic and Statistics	5
SBT 06202	Organic compounds	5
Core Modules		
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

8.1.2.3.2 MINING

A. NTA LEVEL 4: Basic Technician in Mining Engineering

Semester-I

Fundamental Modules		
Module Code	Module 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
SBT 04104	Introduction To Computer Hardware And Software	3
COT 04105	Basics of Calculus, Logarithms and Number Systems	4

Core Modules		
MNT04101	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		75

Semester-II

Fundamental Modules		
Module Code	Module Name	Credits
SBT 04201	Polynomials, Matrices and Binomial Theorem	4
SBT 04202	Essentials of Mechanics	4
SBT 04203	Fundamentals of English Grammar	3
COT 04210	Introduction To Spreadsheet And Word Processing Software	3
Core Modules		
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. NTA LEVEL 5: Technician in Mining Engineering

Semester I

Fundamental Modules		
Module Code	Module 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 Modules		
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 Modules		
Module Code	Module 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 Modules		
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		73

C. NTA LEVEL 6: Ordinary Diploma in Mining Engineering

Semester I

Fundamental Modules		
Module Code	Module 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 Modules		
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 06112	Fluid Mechanics and Hydraulics I	6
MNT 06107	Project – I	6
TOTAL		68

Semester -II

Fundamental Modules		
Module Code	Module Name	Credits
SBT 06201	Logic and Statistics	5
SBT 06202	Organic Compounds	5
Core Modules		
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 COMPUTER ENGINEERING

Programmes

Currently the Department offers the following three Programmes:

- a) Information and Communication Technology (ICT)
- b) Computer Engineering
- c) Computer Science

Information and Communication Technology (ICT)

- i. Basic Technician in Information and Communication Technology (ICT) – NTA Level 4 (1 year Programme).
- ii. Technician in Information and Communication Technology (ICT) - NTA Level 5 (1 year Programme).
- iii. Ordinary Diploma in Information and Communication Technology (ICT) – NTA Level 6 (1 year Programme).

Computer Science

- i. Basic Technician in Computer Science– NTA Level 4 (1 year Programme).
- ii. Technician in Computer Science- NTA Level 5 (1 year Programme).
- iii. Ordinary Diploma in Computer Science– NTA Level 6 (1 year Programme).

Computer Engineering

- i. Basic Technician in Computer Engineering– NTA Level 4 (1 year Programme).
- ii. Technician in Computer Engineering - NTA Level 5 (1 year Programme).
- iii. Ordinary Diploma in Computer Engineering – NTA Level 6 (1 year Programme).

8.1.3.1 LABORATORIES AND WORKSHOPS

- i. Computer Maintenance and Repair Laboratory
- ii. Two Computer Software Application Laboratories

8.1.3.2 LIST OF STAFF

Mr. Godfrey B. Kayombo Msc. Eng (UDOM), B.Eng (DIT), FTC (DIT)

(Head of Department)

Assistant Lecturers

Mr. Sadiki L. Kusyama Msc. (Mandela) B.eng (DIT), FTC (DIT)

Tutorial Assistants

Mr. Pascal J. Yamakil Advanced Diploma (AIA)
Mr. Edwin P. Nchia Advanced Diploma (IFM)
*Mr. Richard C. Rajabu B.Sc (UDSM)
*Mr. Noel Y. Chintelele B. Eng (DIT)
*Mr. Godphrey G. Kyambile B.Sc Computer Science (St. Joseph)
*Mr. Mrindoko R Nicholaus B. Eng (DIT), FTC (DIT)
*Mr. Ally S. Sikoro B. Eng (DIT), FTC (DIT)
*Miss. Christina L. Mwabeza B. Eng (DIT)
Mr. Charles C. Johnstone B.Sc. Physics (UDSM)
Mr. Joseph N. Lutera BSc. Ed (UDSM-MUCE)
Mr. Bally S. Omary B. Eng (DIT)
Mr. Wangilisasi Lusungu., Bsc.eng (UDSM)
Mr. Peter J.Madembwe B.Sc Computer Science (St. Joseph)
Mr. Nyamwaga M.Kaare B.Sc Computer Science (St. Joseph)

Instructors

*Mr. Shadrack D .Njugunya. B. Eng (DIT)
Mr. Liberatus M. Sago Bsc. Eng (UDSM)
Mr. Peter K. Juma Bsc Eng (UDSM)
Mr. Gilbert N. Asumwisye Diploma (DIT)
Miss Rahel A Mtali Diploma (DIT)

Technician

Mr. Enlai N. Watson B. Eng (DIT)
Mr. Riziki Pangahela Diploma (TPSC-Magogoni)
Mr. Aggrey T. Kiongosya Certificate (UCC)

*On study leave

8.1.3.3 COURSE MODULES

8.1.3.3.1 INFORMATION AND COMMUNICATION TECHNOLOGY

A. NTA LEVEL 4: Basic Technician in Information and Communication Technology

Semester I

Fundamental Modules		
Code	Module Name	Credit
SBT 04101	Advance Mathematics I	05
SBT 04102	Mechanics I	05
SBT 04103	Introduction to technical communication	02
Core Modules		
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 Modules		
Code	Module 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 Modules		
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. NTA LEVEL 5: Technician Certificate in Information and Communication Technology

Semester I

Fundamental Modules		
Code	Module 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 Modules		
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 Modules		
Code	Module 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 Modules		
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. NTA LEVEL 6: Ordinary Diploma in Information and Communication Technology

Semester I

Fundamental Modules		
Code	Module Name	Credit
SBT 06104	Entrepreneurship	3
SBT 06103	Business Communication skills	2

Core Modules		
CID 06101	Object Oriented Programming in JAVA	8
CID 06102	Management Information Systems	10
CID 06103	IT Security	8
CID 06104	E-Commerce	8
CID 06105	Network Management	9
CID 06106	Research Methodology	6
CID 06108	Geographical Information System	4
CID 06107	Project I	10
Total		68

Semester II

Fundamental Modules		
Code	Module Name	Credit
SBT 06201	Logic and Statistics	7
SBT 06202	Business Management.	5
Core Modules		
CID 06202	Internet and Web Development Technology	4
CID 06205	System Analysis and Design	6
CID 06203	Project Management	9
CID 06204	Law of Computing	4
CID 06201	Website Design and Hosting	7
CID 06207	Project II	10
Total		52

8.1.3.3.2 COMPUTER SCIENCE

A. NTA LEVEL 4: Basic Technician Certificate in Computer Science

Semester 1

Fundamental Modules		
Code	Module Name	Credit
SBT 04101	Advance Mathematics I	05
SBT 04102	Mechanics I	05
SBT 04103	Introduction to technical communication	02
Core Modules		
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 Modules		
Code	Module 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 Modules		
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. NTA LEVEL 5: Technician Certificate in Computer Science

Semester I

Fundamental Modules		
Code	Module 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 Modules		
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 Modules		
Code	Module 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 Modules		
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

8.1.3.3.3 COMPUTER ENGINEERING

A. NTA LEVEL4: Basic Technician Certificate in Computer Engineering

Semester 1

Fundamental Modules		
Code	Module Name	Credit
SBT 04101	Advance Mathematics I	05
SBT 04102	Mechanics I	05
SBT 04103	Introduction to technical communication	02
Core Modules		
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 Modules		
Code	Module 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 Modules		
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. NTA LEVEL 5: Technician Certificate in Computer Engineering**Semester I**

Fundamental Modules		
Code	Module 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 Modules		
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 Modules		
Code	Module 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 Modules		
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. NTA LEVEL 6: Ordinary Diploma in Computer Engineering**Semester I**

Fundamental Modules		
Code	Module Name	Credit
SBT 06101	Vector and coordinate Geometry	7
SBT 06102	Heat and Thermodynamics	7
SBT 06104	Entrepreneurship	4

Core Modules		
Code	Module 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 Modules		
Code	Module Name	Credit
SBT 06201	Logic and Statistics	7
SBT 06202	Organic compounds	9
Core Modules		
Code	Module 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

8.1.4 DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

Programmes

Currently the Department offers the following three Programmes:

- a) Electrical and Electronic Engineering
- b) Electronic and Telecommunication Engineering

Electrical and Electronic Engineering

- i. Basic Technician in Electrical and Electronic Engineering – NTA Level 4 (1 year Programme).
- ii. Technician in Electrical and Electronic Engineering - NTA Level 5 (1 year Programme).
- iii. Ordinary Diploma in Electrical and Electronic Engineering – NTA Level 6 (1 year Programme).

Electronic and Telecommunication Engineering

- i. Basic Technician in Electronic and Telecommunication Engineering – NTA Level 4 (1 year Programme).
- ii. Technician in Electronic and Telecommunication Engineering - NTA Level 5 (1 year Programme).
- iii. Ordinary Diploma in Electronic and Telecommunication Engineering – NTA Level 6 (1 year Programme).

8.1.4.1 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

8.1.4.2 LIST OF STAFF

Watson E. Yotham.,	MSc. Electrical Engineering (UDSM), BSc. (UDSM) <i>(Head of Department)</i>
Assistant Lecturers	
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Sospeter I. Gabriel	MSc. Electrical (UDSM), BEng (DIT), FTC Electrical (DIT)
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John Mashurano	ME. Signal and Information Processing (TUTE- China), BEng Electronics and Communication (SJCET) FTC Electrical (MTC)

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Lilian Kawala	BEng .Electrical and Electronics (MIST) D Eng. Electrical and Electronics (MIST)
Eligard Francis	BEng .Electrical and Electronics (MIST) D Eng. Electrical and Electronics (MIST)
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Robert M. Chombo	Sc Tech Educ. (Univesity of Malawi), FTC (DTC) Hamisi K. Isomanga BEng. .Electrical and Electronics (SJUIT), DTE (DTC)

Instructors I

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Instructors II

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Workshop Technicians	
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Joshua J. Mlay	D Eng .Electrical and Electronics (MIST)
Furahini Shelukindo	D Eng .Electrical and Electronics (MIST)
*On study leave	

8.1.4.3 COURSE MODULES

A. NTA 4: Basic Technician in Electrical and Electronic Engineering

Semester I

Fundamental Modules		
Module Code	Module Name	Credits
SBT 04101	Basics of Calculus, Logarithms and Number Systems	5
SBT 04102	Introduction to mechanics	5
SBT 04103	Introduction to technical communication	2
COT 04105	Introduction to Computer	2
Core Module		
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		55

Semester II

Fundamental Modules		
Module Code	Module Name	Credits
SBT 04201	Polynomials, Matrices and Binomials theorem	5
SBT 04202	Essentials of Mechanics	5
SBT 04203	Fundamentals of English grammar	2
COT 0405	Basic Computer Applications	2
Core Modules		
EET 04201	Basic Electrical Technology	6
EET 04202	Analogy Electronics Lab I	6
EET 04203	Electrical and Electronic Materials	6
EET 04204	Workshop Practice	9
EET 04205	Electrical and Electronic Measurements	5
EET 04206	Electrical Measurements II	5
EET 04207	Analogue Electronics II	4
IPT 04	Industrial Practical Training	10
Total		65

B. NTA 5: Technician in Electrical and Electronic Engineering**Semester I**

Fundamental Modules		
Module Code	Module Name	Credits
SBT05101	Linear programming and Trigonometry	6
SBT05102	Waves and Oscillations	6
SBT05103	Technical Communication skills	2
SBT05104	Introduction to entrepreneurship	2
COT 05105	Relational Database	2
Core Modules		
Module Code	Module Name	Credits
EET 05101	Introduction to software engineering	5
EET 05102	Basics of Digital Electronics	6
EET 05103	Domestic Installation and Maintenance	7
EET 05104	Power Plants	6
EET 05105	DC Generators	6
EET 05106	Installation Testing and Commissioning	7
Total		55

Semester II

Fundamental Modules		
Module Code	Module Name	Credits
SBT05201	Calculus	6
SBT05202	Mechanical properties and Fluid Mechanics	6
SBT05203	Fundamental of Technical Communication	2
SBT05204	Globalization and social change	2
COT 05205	Fundamentals of Computer Programming	3

Core Modules		
EET 05201	Auto CAD	5
EET 05202	Power Electronics	8
EET 05203	Electrical Power Transmission and Distribution	8
EET 05204	Fundamental of Automation	8
EET 05205	Statics AC Machines	8
EET 05206	DC Motors	8
EET 05207	Static and Dynamic Machines Control	9
ITG 05	Industrial Practical Training	10
Total		83

C NTA 6 -Ordinary Diploma in Electrical and Electronic Engineering

Semester I

Fundamental Modules		
Module Code	Module Name	Credits
SBT 06101	Vectors and Coordinate Geometry	7
SBT 06102	Heat and Thermodynamics	7
SBT 06104	Entrepreneurship	3
Core Modules		
Module Code	Module Name	Credits
EED 06101	Dynamics AC Machines	5
EED 06102	Digital Electronics I	4
EED 06103	Electric Drives I	5
EED 06104	Electrical Installation II	5
EED 06105	Fundamentals of Automation III	4
EED 06106	Power System Operations and Control	5
EED 06107	Transformer rewinding	5
EED 06108	Power Protection I	4
ETD 06109	Optical fiber communication	5
EED 06110	Project I	3
Total		62

Semester II

Fundamental Modules		
Module Code	Module Name	Credits
SBT 06201	Logic and Statics	7
SBT 06202	Organic Compounds	7
Core Modules		
EED 06201	AC machines III	5
EED 06202	Digital Electronics II	5
EED 06203	Electric Drives II	5
EED 06204	Fundamental of Automation IV	5
EED 06205	Power Protection II	5
EED 06206	Motor Rewinding	5
EED 06207	Renewable Energy	4

ETD 06208	Basic Telecommunication Engineering	4
EED 06209	Project II	6
Total		58

8.1.4.4 ELECTRONIC AND TELECOMMUNICATION ENGINEERING

A. NTA 4: Basic Technician in Electronic and Telecommunication Engineering

Semester I

Fundamental Modules		
Module Code	Module Name	Credits
SBT 04101	Basics of Calculus, Logarithms and Number Systems	5
SBT 04102	Introduction to Mechanics	5
SBT 04103	Introduction to Technical Communication	2
COT 04105	Introduction to Computer	2
Core Modules		
EET 04101	Basic 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
MET 04110	Basic Technical Drawing	7
Total		57

Semester II

Fundamental Modules		
Module Code	Module Name	Credits
SBT 04201	Polynomials, Matrices and Binomials theorem	5
SBT 04202	Essentials of Mechanics	5
SBT 04203	Fundamentals of English grammar	2
COT 0405	Basic Computer Applications	2
Core Modules		
ETT 04201	Basic electrical Technology	7
ETT 04202	Analogy 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. NTA 5: Technician in Electronic and Telecommunication Engineering**Semester I**

Fundamental Modules		
Module Code	Module 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 Modules		
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 Modules		
Module Code	Module 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 Modules		
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. NTA 6 - Ordinary Diploma in Electronic and Telecommunication Engineering

Semester I		
Fundamental Modules		
Module Code	Module Name	Credits
SBT 06101	Vectors and Coordinate Geometry	7
SBT 06102	Heat and Thermodynamics	7
SBT 06104	Entrepreneurship	3

Core Modules		
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 I	8
Total		60
Semester II		
Fundamental Modules		
Module Code	Module Name	Credits
SBT 06201	Logic and Statics	7
SBT 06202	Organic Compounds	7
Core Modules		
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 II	10
Total		60

8.1.5 THE DEPARTMENT OF SCIENCE AND BUSINESS MANAGEMENT

Programmes

Currently the Programmes in the Department of Science and Business Management are:

- a) Laboratory Science and Technology
- b) Food Science and Technology
- c) Business Administration

Laboratory Science and Technology

- i. Basic Technician in Laboratory Science and Technology – NTA Level 4 (1 year Programme).
- ii. Technician in Laboratory Science and Technology - NTA Level 5 (1 year Programme).
- iii. Ordinary Diploma in Laboratory Science and Technology – NTA Level 6 (1 year Programme).

Business Administration

- i. Basic Technician in Business Administration – NTA Level 4 (1 year Programme).
- ii. Technician in Business Administration - NTA Level 5 (1 year Programme).
- iii. Ordinary Diploma in Business Administration –NTA Level 6 (1 year Programme).

Food Science

- i. Basic Technician in Food Science and Technology – NTA Level 4 (1 year Programme).
- ii. Technician in Food Science and Technology - NTA Level 5 (1 year Programme).
- iii. Ordinary Diploma in Food Science and Technology – NTA Level 6 (1 year Programme).

8.1.5.2 LIST OF STAFF

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Alumbwage B. Lupenza.,	FTC Science and Lab. (DIT)
David Mtweve	Diploma in Lab Science (Arusha technical College)
* On study leave	

8.1.5.3 COURSE MODULES

8.1.5.3.1 BUSINESS ADMINISTRATION

A NTA LEVEL 4: Basic Technician Certificate in Business Administration

Semester I

Code	Module Name	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	Module Name	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. NTA Level 5: Technician Certificate in Business Administration**Semester I**

Code	Module Name	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	Module Name	Credits
SB 521	Small Business Management	8
SB 522	Introduction to Financial Accounting	8
SB 523	Information and Computer Technology	10
SB 524	Introduction to Environmental Economics	10
SB 525	Sales Management	8
SB 526	Procurement and Supply	10
SB 528	Field Practical	10
TOTAL		64

C. NTA Level 6: Ordinary Diploma in Business Administration**Semester I**

Code	Module Name	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	Module Name	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	Field Practical	10
TOTAL		60

8.1.5.3.2 LABORATORY SCIENCE AND TECHNOLOGY

A. NTA LEVEL 4: Basic Technician in Laboratory Science and Technology

Semester I

Code	Module Name	Credits
SBLT 04101	Algebra for Science	9
SBLT 04102	Basics of Cell Biology	9
SBLT 04103	Principles of Electrochemistry	8
SBLT 04104	Laboratory Safety and Maintenance	9
SBLT 04105	Introduction to Mechanics and Heat Energy	8
SBLT 04106	Fundamentals of English Grammar	5
COT 04105	Computer application I	8
TOTAL		56

Semester II

Code	Module 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
SBLT 04207	Principles of Computer Application	9
SBLT 04208	Industrial Field Training	10
TOTAL		67

B. NTA LEVEL 5: Technician in Laboratory Science and Technology

Semester I

Code	Module Name	Credits (Module)
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	Module Name	Credits (Module)
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. NTA LEVEL 6: Ordinary Diploma in Laboratory Science and Technology**Semester I**

Code	Module Name	Credits
SBT 06101	Vector and coordinate Geometry	9
SBLT 06102	Basics of Genetics and Biotechnology	9
SBT 05102	Waves and Oscillations	6
SBLT 06103	Introduction to Biochemistry	8
SBT 06104	Entrepreneurship	5
COT 06105	Introduction to Computer programming	8
SBLT 06106	Solvent Separation Techniques	10
SBLT 06 107	Project	10
TOTAL		61

Semester II

Code	Module 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

8.1.5.3.3 ORDINARY DIPLOMA IN FOOD SCIENCE

A. NTA LEVEL 4: Basic Technician in Food Science

Semester I

Fundamental Modules		
Code	Module Title	Credit
SBFT 04106	Basic Applied Mathematics	6
SBFT 04105	Introduction to technical communication Skills	5
COT 04105	Introduction to Computer	3
Core Modules		
SBFT 04101	Introductory Food Science	10
SBFT 04102	Food Preservation, Handling and Protection	13
SBFT 04103	Introductory Biochemistry	10
SBFT 04104	Introduction to Microbiology	12
TOTAL		59

Semester II

Fundamental Modules		
Code	Module Title	Credit
COT 04210	Basic Computer Application II	2
SBFT 04205	Technical communication skills	5
Core Modules		
SBFT 04201	Food Microbiology	14
SBFT 04202	Material Science and Packaging for Food Technology	10
SBFT 04203	Basic Food Engineering	12
SBFT 04204	Food Biochemistry	12
IPT 1	Industrial practical training	10
TOTAL		65

B. NTA 5: Technician in Food Science

Semester I

Fundamental Modules		
Code	Module Title	Credit
SBFT 05101	Introduction to entrepreneurship	5
SBFT 05102	Technical Communication skills	5
SBFT 05103	Computer application	9
Core Modules		
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 Modules		
Code	Module Title	Credit
SBFT 05201	Analytical and Physical Chemistry	10
SBFT 05202	Computer for Science	9
Core Modules		
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. NTA 6: Ordinary Diploma in Food Science and Technology

Semester I

Code	Module 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	Module 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

8.1.6 THE DEPARTMENT OF MECHANICAL ENGINEERING

Programmes

Currently the Department offers the following Programmes:

- a) Mechanical Engineering
- b) Industrial Safety and Occupational Health
- c) Mechatronics

Mechanical Engineering

- i. Basic Technician in Mechanical Engineering– NTA Level 4 (1 year Programme).
- ii. Technician in Mechanical Engineering - NTA Level 5 (1 year Programme).
- iii. Ordinary Diploma in Mechanical Engineering – NTA Level 6 (1 year Programme).

Industrial Safety and Occupational Health

- i. Basic Technician in Industrial Safety and Occupational Health – NTA Level 4 (1 year Programme).
- ii. Technician in Industrial Safety and Occupational Health - NTA Level 5 (1 year Programme).
- iii. Ordinary Diploma in Industrial Safety and Occupational Health – NTA Level 6 (1 year Programme).

Mechatronics

- i. Basic Technician in Mechatronics– NTA Level 4 (1 year Programme).
- ii. Technician in Mechatronics- NTA Level 5 (1 year Programme).
- iii. Ordinary Diploma in Mechatronics– NTA Level 6 (1 year Programme).

8.1.6.1 LABORATORIES AND WORKSHOPS

- i. Mechatronics Laboratory
- ii. Energy Laboratory
- iii. Machine Shop
- iv. Welding Workshop
- v. Automotive Workshop
- vi. Foundry Workshop
- vii. Forging Workshop

8.1.6.2 LIST OF STAFF

Mr. Omari H. Pinda MSc. Prod. Eng. (UDSM), PGDE Mech (UDSM), ADE Mech (MIST), FTC Mech Eng (MTC)
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Tutorial Assistants

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

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

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Mr. Lyimo S. Mhagama BSc. Ed (UDS), Dip. Ed. Science (Monduli TTC)

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

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

Mr. Nyanda M. Malashi
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Mech (MTC)

Technician

Mr. Emmanuel S. Sakalan
Mr. Sikuzani L. Mpuhus
Mr. Hamisi M. Egari

Dip. Mech (ATC), Technician II - Automotive
Dip. Mech. Eng (MIST). Technician II – Mechanical
Dip. Automotive (ATC), Technician II– Automotive.

Instructors

Mr. Charles Z. Luhwago

ADE. Mech (MIST), DTE (DIT), FTC Mech Eng
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Dip. Mech. Eng (MIST)

Mr. Widson K. Mwasenga

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

Mr. Paulo S. Zebedayo

Dip. Mech. Eng (MUST)

Mr. Michael T. Mwakyonya

ADAE (NIT), DAE (NIT)

Mr. Shabani H. Mdende

ADAE (NIT), FTC Mech. Eng (DIT), Adv Vehicle
Inspection and Road Safety and Accident Analysis
(NIT)

*On study leave

8.1.6.3 COURSE MODULES

8.1.6.3.1 MECHANICAL ENGINEERING

A. NTA 4: Basic Technician in Mechanical Engineering

Semester I

Fundamental Modules		
Module Code	Module 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 Modules		
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 Modules		
Module Code	Module 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 Modules		
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
Total		58

B. NTA 5: Technician in Mechanical Engineering

Semester I

Fundamental Modules		
Module Code	Module 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 Modules		
MET 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
Total		68

Semester II

Fundamental Modules		
Module Code	Module 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 Modules		
MET 05201	Engineering Drawing	6
MET 05204	Autoelectrical System	12
MET 05205	Metal Forming Processes	10
MET 05206	Mechanical Drives	9
MET 05207	Fluids Mechanics	3
Total		52

C. NTA 6: Ordinary Diploma in Mechanical Engineering

Semester I

Fundamental Modules		
Module Code	Module Name	Credit
SBT 06101	Vector and coordinate Geometry	7
SBT 06104	Entrepreneurship	3

Core Modules		
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 Modules		
Module Code	Module Name	Credit
SBT 06201	Logic and Statistics	7
SBT 06202	Organic compounds	7
Core Modules		
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

8.1.6.3.2 INDUSTRIAL SAFETY AND OCCUPATIONAL HEALTH

A. NTA 4: Basic Technician in Industrial Safety and Occupational Health

Semester I

Fundamental Modules		
Module Code	Module 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 Modules		
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 Modules		
Module Code	Module 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 Modules		
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
Total		58

B. NTA 5: Technician in Industrial Safety and Occupational Health

Semester 1

Fundamental Modules		
Module Code	Module 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 Modules		
MET 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
Total		68

Semester II

Fundamental Modules		
Module Code	Module 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 Modules		
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. NTA 6: Ordinary Diploma in Industrial Safety and Occupational Health

Semester I

Fundamental Modules		
Module Code	Module Name	Credit
SBT 06101	Vector and coordinate Geometry	7
SBT 06104	Small Enterprise Management	3

Core Modules		
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 Modules		
Module Code	Module Name	Credit
SBT 06201	Logic and Statistics	7
SBT 06202	Organic compounds	7
Core Modules		
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

8.1.6.3.3 MECHATRONICS

A. NTA 4: Basic Technician Certificate in Mechatronics

Semester I

Fundamental Modules		
Module Code	Module 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	4
MMT 04104	Fundamentals of ICT	5
MMT 04105	Computer application software	6

Core Modules		
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 Credit		59

Semester II

Fundamental Modules		
Module Code	Module 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 Modules		
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
Total Credit		61

B. NTA 5: Technician Certificate in Mechatronics

Semester I

Fundamental Modules		
Module Code	Module 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 Modules		
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 Modules		
Module Code	Module Name	Credit
SBT 05201	Series, Vector and Calculus	5
SBT 05203	Fundamentals of Oral and Written Technical Communication	2
Core Modules		
MET 05201	Engineering Drawing	6
MMT 05201	Electric Machines	9
MET 06214	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
Total Credit		57

C. NTA 6: Ordinary Diploma in Mechatronics

Semester 1

Fundamental Modules		
Module Code	Module Name	Credit
SBT 06101	Vector and coordinate Geometry	7
SBT 06104	Small Enterprise Management	3

Core Modules		
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 Modules		
Module Code	Module Name	Credit
SBT 06201	Logic and Statistics	7
SBT 06202	Organic compounds	7
Core Modules		
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

8.1.7 ORDINARY DIPLOMA OFFERED BY MUST- RUKWA COMPUS

- i. Ordinary Diploma in Automotive Engineering
- ii. Ordinary Diploma in Civil Engineering
- iii. Ordinary Diploma in Highway Engineering

8.1.7.1 COURSE MODULES

8.1.7.1.1 AUTOMOTIVE ENGINEERING

A. NTA 4: Basic Technician in Automotive Engineering

Semester II

Fundamental Modules		
Code	Module	Credits
GST 04101	Algebra and Trigonometry	05
GST 04102	Mechanics and Nuclear Physics.	06
GST 04103	English Language Basics.	04
Core Modules		
MET 04101	Basics of Engineering Drawing	05
MET 04102	Mechanical Engineering Materials	09
AET 04101	Basics of Automotive Technology	12
MET 04105	Basics of Manufacturing Engineering.	13
AET 04102	Fundamentals of Electrical and Electronics Engineering	08
TOTAL CREDITS		62

Semester II

Fundamental Modules		
Code	Module	Credits
GST 04201	Series and Boolean Algebra	05
GST 04202	Gender and HIV	04
GST 04203	Microcomputer Application	06
Core Modules		
MET 04201	Pictorial, Orthographic and Auxiliary Projections	05
MET 04203	Mechanical Engineering Science.	06
AET 04203	Automotive Systems, Operation and Maintenance.	13
MET 04205	Machine Tools/Processes and Maintenance.	12
AET 04202	Industrial Practical Training.	10
TOTAL CREDITS		60

NTA LEVEL 5: Technician Certificate in Automotive Engineering

Semester I

Fundamental Modules		
CODE	MODULE	CREDITS
GST 05101	Differential and Integration	05
GST 05102	Thermal Energy, Waves and Organic Compounds	06
GST 05103	Introduction to Programming Using C language	06

Core Modules		
MET 05101	Sectioning, Development and Interpenetration	06
MET 05103	Strength of Materials	04
MET 05105	Welding and Metal Fabrication	10
MET 05106	Basics of Machine Elements and Design	05
MET 05107	Engineering Thermodynamics	04
AET 05105	Basics of Engine Managements	12
TOTAL CREDITS		58

Semester II

Fundamental Modules		
CODE	MODULE	CREDITS
GST 05201	Matrices, Complex Numbers and Vectors	05
GST 05202	English Language Skills	04
GST 05203	Basics of Entrepreneurship	04
GST 05204	Introduction to Networking	04
Core Modules		
MET 05201	Detail and Assembly Drawing	06
AET 05206	Basics of Automotive Diagnosis	12
MET 05205	Foundry and Metal Forming	10
MET 05207	Fluid Mechanics	03
MET 05208	Measurements, Instrumentation and Control Technology	05
MET 05209	Industrial Practical training	10
TOTAL CREDITS		63

NTA LEVEL 6: Ordinary Diploma in Automotive Engineering

Semester I

Fundamental Modules		
CODE	MODULE	CREDITS
GST 06101	Coordinate Geometry and Differential Equations.	06
GST 06102	Correspondence, Interpersonal skills and Report Writing	04
Core Modules		
MET 06101	Fundamental of CAD	06
AET 06108	Automotive Engineering Science	13
MET 06106	Machine Elements and Design	06
MET 06109	Power Production	06
AET 06109	Auto Electrical and Electronic Systems	14
MET 06113	Environmental Engineering	03
AET 06110	Project- Design	04
TOTAL CREDITS		52

Semester II

Fundamental Modules		
CODE	MODULE	CREDITS
GST 06201	Linear Programming, Statistics and Probability	06
GST 06204	Enterprises Management	06
Core Modules		
MET 06208	3D modeling using SOLIDWORKS software	06
AET 06211	Automotive Workshop Management	08
AET 06212	Automotive Diagnosis.	08
AET 06225	Engine Electronic Control Systems	12
AET 06226	Project Work	14
TOTAL CREDITS		60

8.1.7.1.2 CIVIL ENGINEERING

A: NTA LEVEL 4: Basic Technician in Civil Engineering

Semester I

Fundamental Modules		
Module Code	Module 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 Modules		
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 Modules		
Module Code	Module 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 Modules		
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. NTA LEVEL 5: Technician in Civil Engineering

Semester I

Fundamental Modules		
Module Code	Module 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 Modules		
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 Modules		
Module Code	Module 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 Modules		
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. NTA LEVEL 6: Ordinary Diploma in Civil Engineering

Semester I

Fundamental Modules		
Module Code	Module Name	Credits
SBT 06101	Vector and coordinate Geometry	5
SBT 06102	Heat and Thermodynamics	5
SBT 06104	Entrepreneurship	4
COT 06105	Basic Computer Applications V	2
Core Modules		
CET 06102	Introduction to Foundation Engineering	6
CET 06105	Building Construction - III	5
CET 06107	Reinforced Cement Concrete Design - II	6
CET06109	Estimation and Costing	6
CET 06110	Construction Management II	4
CET 06111	Water Supply and Sanitation - II	6
CET 06112	Fluid Mechanics and Hydraulics - I	6
CET 06113	Timber Structural Design	7
CET 061115	Project - I	8
TOTAL		70

Semester -II

Fundamental Modules		
Module Code	Module Name	Credits
SBT 06201	Logic and Statistics	5
SBT 06202	Organic compounds	5
Core Modules		
CET 06201	Building Materials	3
CET 06205	Building Construction - IV	5
CET 06207	Reinforced Cement Concrete Design - III	6
CET 06210	Construction Management - III	4
CET 06211	Water Supply and Sanitation - III	5
CET 06212	Fluid Mechanics and Hydraulics II	6
CET 06214	Steel Structural Design	8
CET06215	Project II	10
TOTAL		57

8.1.7.1.3 HIGHWAY ENGINEERING:

A. NTA LEVEL 4: Basic Technician in Civil Engineering

Semester I

Fundamental Modules		
Module Code	Module 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 Modules		
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 Modules		
Module Code	Module 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 Modules		
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. NTA LEVEL 5: Technician in Civil Engineering**Semester I**

Fundamental Modules		
Module Code	Module 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 Modules		
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 Modules		
Module Code	Module 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 Modules		
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

NTA 6: Ordinary Diploma in Highway Engineering**Semester I**

Fundamental Modules		
CODE	MODULE	CREDITS
GSD 06101	Coordinate Geometry and Differential Equations	4
GSD 06102	Correspondence, and Report Writing	4

Core Modules		
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 Modules		
CODE	MODULE	CREDITS
GSD 06201	Linear Programming, Statistics and Probability	3
GSD 06202	Enterprise Management	6
Core Modules		
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 CREDITS		66

8.2 COLLEGE OF ENGINEERING AND TECHNOLOGY (CET)

8.2.1 DEPARTMENT OF SETTLEMENT PLANNING AND DESIGNING TECHNOLOGY

Programmes

The Department offers the following Programmes:

- a) Higher Diploma in Technology in Architecture – UQF 6 (1 year). & UQF 7 (2 years).
- b) Bachelor Degree of Technology in Architecture- UQF 8 (1 year)

8.2.1.1 LIST OF STAFF

Mr. Emmanuel Liombo,

M.Arch. (Nairobi Univ.), B.Arch. (UDSM).
(Head of Department)

Professors

Prof. Emmanuel J. Luoga

PhD (Wits), MSc. (AUN), BSc. (SUA), Dip (Olmotonyi)

Assistant Lecturers

Mr. Idas M. Kiondo	MSc Eng. (Theory of Arch & History), AD Arch. (Ardhi Inst), Dip. Tech. Ed. -
Mr. Viviano Fyito	MSc. In Urban Plan. & MGT, PGD in Urban Plan & MGT. AD BE (Ardhi Inst), Dip. Tech. Ed
*Mr. Juma A. Mpangule	MSc. Const. mgt (ARU), BSC (BE) – UDSM
Mr. Malifa P. Sanga,	M. Arch (ARU), PGD Arch (UCLAS), Adv. Dip. Arch. (Ardhi Inst).
Mr. Kassim A. Choga, AD Arch. (Ardhi Inst).	M.Arch. (Ardhi Univ.), PGD Arch (Ardhi Univ.)
Mr. Yonna Justin,	B.Sc BE (UDSM).
*Mr. Buberwa M. Tibesigwa	M.Arch. (HIT China) B.Arch. (Ardhi Univ.),
Mr. Twaha Kibika	Msc Eng (UDSM.), BSC (UDSM.)
*On study leave.	

8.2.1.2 COURSE MODULES

A. UQF 6 Technology in Architecture

Semester 1

Module Code	Module Name	Credits
ARB1101	Computer Aided Design I	6
ARB1103	Construction Surveying	5
ARB1104	Structural Mechanics	6
ARB1105	History of Architecture	5
ARB1108	Basics of Architectural Design	6
ARB1110	Architectural Draughting	15
ARB1112	Professional Practice and Management I	5
ARB1114	Building Materials I	5
ARB1116	Architectural Structures & Building Construction I	5
TOTAL		58

Semester II

Module Code	Module 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
TOTAL		52

B. UQF7 Higher Diploma in Technology in Architecture

Semester I

Fundamental Modules		
Module Code	Module Name	Credits
GSB2101	Linear Algebra and calculus	6
GSB2105	Communication skills	6
GSB2105	Computer Programming I	4
Core Modules		
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 Modules		
Module Code	Module Name	Credits
GSB2202	Advanced Calculus	6
GSB2204	Introduction to Management Skills I	6
GSB2205	Computer Programming II	4
Core Modules		
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
ARB172	Industrial Practical Training	10
Total		73

Semester III

Fundamental Modules		
Module Code	Module Name	Credits
GSB3103	Differential Equations	6
GSB3104	Introduction to Management Skills I	6
Core Modules		
ARB3102	Advanced CAD II	3
ARB3103	Simulation Technology I	4
ARB3104	Environmental Control & Sustainability	3
ARB3106	Product manufacture Technology II	5
ARB3107	Service & installation III	3
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	4
ARB3119	Research Methods	3
ARB3120	Project I	11
Total		65

Semester IV

Fundamental Modules		
Module Code	Module Name	Credits
GSB3204	Statistics & Numerical Analysis	6
GSB3206	Entrepreneurship Education	6
Core Modules		
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
ARB3210	Building Construction & Technology IV	3
ARB3274	Industrial Practical Training	10
Total		54

C UQF 8 Bachelor Degree of Technology in Architecture

Semester I

Core Modules		
Module Code	Module 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 Modules		
Module Code	Module Name	Credits
ARB4207	Architectural Practice IV	4
ARB4208	Dissertation Part II	44
ARB4209	Industrial Practical Training	10
Total		58

8.2.2 DEPARTMENT OF BUILT ENVIRONMENT AND ENGINEERING

Programmes

The Department offers the following Programmes:

- a) Higher Diploma in Civil Engineering – UQF 6 (1 year). & UQF 7 (2 years).
- b) Bachelor of Civil Engineering – UQF 8 (1 year).

8.2.2.1 LABORATORIES AND WORKSHOPS

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

8.2.2.2 LIST OF STAFF

Mr. Yazidi A. Mwishwa, MEM. (UDSM), PGD (UDSM), ADE (DIT)
(Head of Department)

Professors:

Prof. Joseph Msambichaka, PhD (Dortmund) MSc. (UDSM), B.Eng.
(Mysore),

Senior Lecturer

Dr. Zacharia Katambara, PhD Wits-SA, MSC Eng. (UDSM), BSC Eng.
(UDSM)

Lecturers:

Dr. Muya. S. Mgaza	PhD. Geotechnical Eng.(HUST). Msc. Geotechnical Eng. (HUST), BSc. Geology (UDSM),
Mr. Yazidi A. Mwishwa,	MEM (UDSM), PGD (UDSM), ADE (DIT)
*Mr. Gislar Kifanyi,	MEM. (UDSM), PGD (UDSM), BSc (Civil),
Assistant Lecturers	
Mr. Boniface Shayo,	MEM, PGD (UDSM), AD BEcon (Ardhi Inst.)
Mr. John B. Kaliyo,	MSc Irrig. Eng. (Belgium), Btech – Civil Eng. (India)
Eng. Joseph Mkisi,	MSc. Civil Eng. (Bulgaria),
Mr. George Lupakisyo	MSc.(WRE) (UDSM), BSc (Civil) (UDSM),.
Mr. Ramadhani S. Tekka	MEM (UDSM), BSc Geomatics (ARU)
Mr. Fadhili S. Mwakimi	Msc. Structural Eng. (UDSM), PGD Str. Eng. (UDSM), ADE Civil. (MIST), FTC Archt. (MIST)
Mr. Hieromin Mboya,	Msc. Structural Eng. (UDSM), PGD Str. Eng. (UDSM), ADE Civil. Eng. (DIT), FTC Civil (MIST)
Mr. Joseph Mnkeni,	Msc. Highway Eng. (UDSM), PGD Highway. Eng. (UDSM), ADE Civil Eng. (DIT) FTC Civil (TCA)
Ms. Mwajuma Hussein,	MSc. Highway Eng. (UDSM), PGD Highway. Eng. (UDSM), ADE Civil. (DIT). FTC Archt. (MIST)
Mr. Mohamed J. Mohamed	PGD Transportation. Eng (UDSM), ADE Civil Eng. (DIT), FTC Civil (DIT)
Mr. Edmund Mutayoba	MSc. Water Resources Management (UDSM), Bsc. Environmental Science (SUA)
Julius Nalitolela	MSc. Civil, (Czech Tech. University) Bsc. Structures (UDSM)
Japhary Shengeza	MSc Construction Economics & Management (ARU), Bsc, Building Economics (UDSM)
*Mr. Duwa Hamisi,	MSc. Highway Eng. (UDSM) BSc. Civil Eng. (UDSM)
Mr. Omari Shegwando,	MSc. Water Resources Management (ARU), BSc. Civil Eng. (UDSM)
Mr. Martin Swila,	MSc. Structural Eng. (UDSM), BSc. Civil (Eng.), (UDSM)
Mr. Charles Mtaita	Mining Survey Eng. (Moscow State Mining),

*On study leave

8.2.2.3 COURSE MODULES

A. UQF 6 Civil Engineering

Semester I

Code	Module title	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	Module title	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 Higher Diploma in Civil Engineering

Semester I

Fundamental Modules		
Module Code	Module Name	Credits
GSB 2101	Linear Algebra and Calculus	6
GSB 2105	Communication Skills	4
COB 2102	Data Structure Computer Programming	6
Core Modules		
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 Modules		
Module Code	Module Name	Credits
GSH 2202	Advanced Calculus	6
COH 4402	Object Oriented Programming	6
Core Modules		
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 Modules		
Module Code	Module Name	Credits
GSH 3103	Differential Equations	6
Core Modules		
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 Modules		
Module Code	Module Name	Credits
GSH 3204	Statistics and Numerical Analysis	6
GSH 3206	Entrepreneurship Education I	6
Core Modules		
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

C. UQF 8: Bachelor of Civil Engineering

Semester I

Core Modules		
Module Code	Module 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 1	18
Total		54
Elective Modules		
Module Code	Module 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 Modules		
Module Code	Module Name	Credits
GSB 8201	Entrepreneurship Education II	6

Core Modules		
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 Modules		
Module Code	Module Name	Credits
CEB 4241	Transportation Engineering	6
CEB 4243	Water Resources Management	6
Total		12

8.2.3 DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

Programmes

The Department offers the following Programmes:

- c) Higher Diploma in Electrical and Electronics Engineering – UQF 6 (1 year). & UQF 7 (2 years).
- a) Bachelor of Electrical and Electronics Engineering - UQF 8 (1 year).

8.2.3.1 LIST OF STAFF

Mr. Owdean M. Suwi	Msc. Elect. Eng. (UDSM), BSc. Elect Eng., (UDSM). Tech. Ed. (Morogoro)
<i>(Head of Department)</i>	
Assistant Lecturers	
Mr. Watson E. Yotham,	MSc. Elect. Eng. (UDSM), BSc. Elect. Eng. (UDSM), Tech. Ed. (Morogoro) -
Mr. Saidi Msherwa,	MSc. Elect. Eng. (UDSM), BSc. Elect Eng., (UDSM,) Tech. Ed. (Morogoro –
Mr. Zephania A.D. Chaula,	MSc. Elect. Eng. (Donetsk State University Ukraine), FTC Electrical (DTC).
Mrs. Anlyilya G. Mwaikokesya,	MEM, PGD IT & Electron. (UDSM), MEM, PGD (UDSM), ADE Elect. Eng. FTC (DTC), Tech. Ed. (Morogoro).
*Mr. Arthur Mngoma Omari,	MSc Elec. Eng. (Kharkov State Technical University of Agriculture- Ukraine), Tech. Ed. (Morogoro)
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)

Bonaventura Matuntera Siko	MSc Elect Eng. (Varma High Institute of Mechanical and Electrical Engineering-Bulgaria; FTC in Electronics & Telecommunication (DTC)
Vincet Venance Massawe	MSc Elect. Eng. (St. Petersburg state Polytechnical niversity-Russia); BSc Elect. Eng. (Russia); FTC in MEch. Eng. (ATC)
*Mr. John P. John,	MSc. Elect. Eng. (UDSM), B. Eng. Elect. (DIT), FTC. (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)
Mr. Alban Mahimbo,	MSc. (UDSM), B. Eng. Elect. (DIT), FTC (ATC)
Mr. Sospeter Gabriel,	MSc. Elect. Eng. (UDSM), B. Eng. Elect. (DIT), FTC (ATC)
*Mr. Daniel A. Sinkonde	MSc.ICSE (NM-AIST, TZ). B.Eng ECE (St. JCET); FTC in Mech Eng. (MTC).
Mr. John Mashurano	M.Eng. (Tianjin University - CHINA). B.Eng in Electronics & Comm. Engineering (St. Joseph C ET); FTC in Electrical Eng (MTC).
Mr. Twaha Bakari Kabika	M.Eng. (Tianjin University CHINA). B.Sc Electronics science (UDSM).
Mr. Ally J. Ally	M.Eng. (Tianjin University – CHINA
Tutorial Assistants:	
*Mr. Justine Mbilinyi,	BSc. Elect. Eng. (UDSM)
Mr. Buchumi Manase	B Eng Elect. (SJCET); FTC Elect. (MTC)
* Isaka J. Mwakitalima	B.Eng in EEE (SJCET), Dip Tech Ed (Kleruu); FTC Electrical (ATC).
*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).

8.2.3.2 COURSE MODULES

A. UQF 6 Electrical and Electronic Engineering

Semester I

Code	Module 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 hours/week		58

Semester II

Code	Module Title CORE MODULES	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 hours/week		62

B. UQF 7 Higher Diploma in Electrical and Electronic Engineering

Semester I

Fundamental Modules		
Code	Module Title	Credit
GSB 2101	Linear Algebra and Calculus	6
GSB 2102	Communication Skills	6

Core Modules		
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	Module Title	Credit
GSB 2202	Advanced Calculus	6
Sub Total,		6

Core Modules		
Code	Module 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 Modules		
Code	Module Title	Credit
GSB 3101	Differential Equations	6
GSB 3102	Entrepreneurship Education for Engineers 1	6
Core Modules		
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

Semester IV

Fundamental Modules		
Code	Module Title	Credit
GSB 3201	Statistics and Numerical Analysis	6
EEB 3207	Environmental Engineering	4
Core Modules		
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	Module Title	Credit
Fundamental Modules		
EEB 4106	Engineering economics and Management I	6
Core modules		
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	Module Title	Credit
Fundamental Modules		
EEB 4206	Engineering economics and management II	6
EEB 4205	Laws for Engineers	6
Core modules		
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

8.2.4 DEPARTMENT OF INFORMATION AND COMMUNICATION TECHNOLOGY

Programmes

The Department offers the following Programmes:

- a) Higher Diploma in Computer Engineering – UQF 6 (1 year). & UQF 7 (2 years).
- b) Bachelor of Computer Engineering – UQF 8 (1 year Programme).

8.2.4.1 LIST OF STAFF

Senior Lecturers

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

(Head of Department)

Lecturers

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

Assistant Lecturers

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

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

Mr. Phesto Namayala MSc (HU, USA), BSc (UDSM)

Mr. Aziz Singa MSc (UDOM), BSc Comp. Eng. (SJUIT)

Mr. Justin A. Mwakatobe MSc (PWR, Poland)

Mr. Francis Ruambo MSc (HU, Sweden), MSc (SPSU, RUSSIA)

Mr. Nabahani B. Hamadi MSc (KHNURE, Ukraine)

Mr. Sadiki L. Kusyama MSc. (NM-AIST, TZ). BSc Comp. Eng. (DIT)

8.2.4.2 COURSE MODULES

A. UQF 6 Computer Engineering

Semester I

Module Code	Module Name	Credits
Fundamental Modules		
EEB 1106	Basic Electronics	5
EEB 1108	Basic of Electrical Engineering	5
COB 1103	Workshop Technology	5
COB 1104	Engineering drawing	4

Core Modules		
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

Module Code	Module Name	Credits
Fundamental Modules		
COB 1205	Data Communication	5
COB 1206	Sequential Circuit	5
COB 1207	Introduction to Automation and control	8
Core Modules		
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 Higher Diploma in in Computer Engineering

Semester I

Fundamental Modules		
Module Code	Module 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 Modules		
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 Modules		
Module Code	Module Name	Credits
EEB 2216	Measurements and Instrumentation	9
MEB 2226	Industrial Management	6
MEB 2223	Mechanics of Machines	9
GMB 2221	Calculus	12
Core Modules		
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 Modules		
Module Code	Module Name	
GMB 3131	Finance and Human Resource Management	6
GMB 3131	Statistics and Numerical Analysis	12
Core Modules		
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

Module Code	Module Name	Credits
MEB 3246	Engineering Operations Management	6
GMB 3242	Statistics and Numerical Analysis	12
Core Modules		
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	Module 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

Semester II

Code	Module Name	Credits
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

8.2.5 THE DEPARTMENT OF ENERGY AND PRODUCTION ENGINEERING

Programmes

The Department offers the following Programmes:

- Higher Diploma in Mechanical Engineering – UQF 7 (3 years Programme).
- Bachelor of Mechanical Engineering - UQF 8 (1 year Programme).

8.2.5.1 LIST OF STAFF

Mr. Duncan A. Mwakipesile MSc Tech. of M/C. Eng. (RUSSE, Bulgaria)
(Head of Department)

Professors:

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

Senior Lecturers

Dr. Noel Mbonde PhD Mech. (CPUT, SA) MSc. Mech. Eng.
(DSTU, USSR), FTC Mech. Eng. (TCA)

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

Dr. Naiman S. Lemeirut

PhD Agric. Mech. (MSAU, Russia),
MSc Mech. Agric. Eng.
(MAEI, USSR) Tech. Ed. (Morogoro)

Lecturers

Mr. Wilson Kiunsi

MEM, (UDSM), BSc. Mech. Eng.
(UDSM), FTC Mech (TCA)

Assistant Lecturers

Mr. Moses Y. Malole

MSc. Sugar Tech. (Varonesh, USSR)

Mr. Modestus K. Ngajilo

MSc. Agric M/C. (Rostov, USSR)

Mr. Elias S. Siyame

MSc. Tech. of M/C. Eng. (Volgograd
Polytechnic, USSR)

Mr. Wambura Mwita

MSc Mech. Eng (CPUT-SA), BSc –Mech
(UDSM)

Mr. Joel Mbwiga

MSc Renewable Energy Eng. (UDSM) BSc
Electro. –Mech (UDSM)

Mr. Emmanuel Mwangomo

MSc Renewable Energy. Eng (UDSM), BSc
Energy Eng., (UDSM), Dipl Ed. (Kleruu)

Mr. Raphael Iddiphonce

MSc Renewable Energy. Eng (UDSM), BSc.
Mech. Eng. (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. Omary Pinda.

MSc Prod. Eng (UDSM), PGDE Mech
(UDSM), ADE Mech. (MIST)

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. (Kreлуу), FTC Automotive Eng. (TCA).
Mr. Misu A. Chibona	MSc Finance (SJUT), BAF (SJUT), Ed (Kreлуу)
Mr. Alex S. Mwalyego	MSc Math. Modeling (UDSM), BSc General (Math & Statistics) (UDSM), Cert. in Algebra Geometry – College Mombasa.
Mr. Ibrahim Y. Mwasyeba	MBA –Copt. Manag. (mzumbe), ADA (IAA)
* On Study Leave	

8.2.5.2 COURSE MODULES

A. UQF 6 Diploma in Mechanical Engineering

Semester 1

Code	Module 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 Credits		55

Semester II

Code	Module 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	10710 Production II	6
MEB IPT 1	Industrial Practical Training	10
Total Credits		69

B. UQF 7 Mechanical Engineering

Semester 1

Fundamental Modules		
Module Code	Module 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 Modules		
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 Credits		57

Semester II

Fundamental Modules		
Module Code	Module Name	Credits
GSB 2102	Eng. Maths. II (Advanced Calculus)	6
COB 2102	Computer Networking	7
Sub Total Credit		13
Core Modules		
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 Modules		
Module Code	Module Name	Credits
GSB 3103	Eng. Maths. III (Differential Equations)	6
GSB 3131	Entrepreneurship	4
Total Credit		10
Core Modules		
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 Modules		
Module Code	Module Name	Credits
GSB 3204	Eng. Maths. IV (Numerical and Statistics Analysis)	6
Total Credit		6
Core Modules		
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

B. UQF 8: Bachelor of Mechanical Engineering**Semester 1**

Core Modules		
Module Code	Module 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
Core Modules		

Semester II

Core Modules		
Module Code	Module 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 Credits		66

8.3 SCHOOL OF BUSINESS MANAGEMENT

8.3.1 DEPARTMENT OF BUSINESS MANAGEMENT

Programmes

The Department offers the following Programmes:

- (a) Higher Diploma in Business Administration – UQF level 7 (2 years program).
- (b) Bachelor of Business Administration – UQF Level 8 (1 year program).

8.3.1.1 LIST OF STAFF

Mr. Galus A. Kitapankwa MEED (UDSM), BEd. Sc.(UDSM)

(Head of Department)

Lecturers

Dr. Vicent T. Kipene PhD (SUA); MBA (SUA), BSc. Agr. Ed (SUA), Dip Ed. (Monduli).

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

Assistant Lecturers

Mr. Andrew S. Kasasi MSc (Phy) (UDSM), BSc (Educ) (UDSM), Dipl. Educ (Mkwawa).

*Ms. Angela Aluko MBA (UDOM), BSc. Food Science & Tech (SUA)

Mr. Said M. Msangi MBA (UDSM), BA (UDSM)

Ms. Albentina Leonard MBA (Finance & Banking) Mzumbe, BA.Ed (UDSM)

Mrs. UkendeKingu MBA (UDSM), BSc. Food Science & Tech (SUA).

Mr. Evans J. Lupenza MBA (OUT), B.Com (UDSM), DACA, (Moshi Coop. College).

*Mr. Raphael Ngetuya MBA (Corporate Management) (MZUMBE); BA (Ed) (UDSM)

Ms. Patricia Wangui Fela MA (Linguistics) (UDSM); BEd (Arts) (Kenyatta University

Mr. John Fika Mogha MBA (Mzumbe); BSc (Agricultural Education and Extension) (SUA)

*Ms. Lulu Lufenge MA (Rural Development) (SUA); BSc (Home Economics and Human Nutrition) SUA

Mr. Phillipomaghembe	MBA (Mzumbe); Advanced Diploma in Accountancy (TIA)
*Mr. Joseph Lukumai	MA (DStudies) (UDSM); BSc (Educ) (UDSM)
*Mr. LazaroKagata	MSc (Development Policy) (Mzumbe), BSc (Education) (UDSM); BSc (Environmental Sciences and Management) (SUA);
Mr. Gerald V. Kyando	MBA (OUT); BCom (OUT), FTC (DIT)
Mr. Yohana J. Sesabo	MBA (Mzumbe); BBA (Marketing) (MZUMBE)
Mr. Abbas Y. Sanga certificate (DSA)	MARD (SUA); Bed (UDSM); Accounting technician
Mr. Baraka M. Nkoko Linguistics (UDSM)	MA (Linguistics) (UDSM); BA Ed (English & Linguistics) (UDSM)
Ms. Herieth J. Rogath	MSc (Industrial Logistics) (Molde, Norway); MSc International Trade (UDSM); BSc (Urban and Regional Planning) (UCLAS)

Tutorial Assistant

Mr. Stephen Matiku BBA (MUST)

* On study leave

8.3.1.2 COURSE MODULES

A. UQF LEVEL 7 Higher Diploma in Business Administration

FIRST YEAR

Semester I

Module Code	Module Name	Credits
BMH 07101	Communication Skills	10
BMH 07102	Development Studies	10
HRH 07101	Principles of Management	10
PSH 07101	Procurement and Supply	10
MKH 07101	Principles of Marketing	10
BMH 07103	Microeconomics	10
TOTAL		60

Semester II

Module Code	Module Name	Credits
BMH 07204	Information and Communication Technology	10
BMH 07205	Macroeconomics	10
FAH 07201	Principles of accounting	10
BMH 07206	Business Mathematics	10
BMH 07207	Introduction to Business laws	10
MKH 07209	Theories of Entrepreneurship	10
TOTAL		60

SECOND YEAR

Semester III BBA - Procurement and Supply Chain Management

Module Code	Module Name	Credits
PSH 07303	Procurement Principles and Management	10
PSH 07304	Warehousing Management	9
PSH 07308	E-Procurement and E- Supply Chain Management	10
BMH 07310	Quantitative Techniques	10
BMH 07312	Managerial Economics	10
FAH 07304	Auditing and Investigation	10
BMH 07313	Project Planning	10
TOTAL		69

Semester III BBA - Marketing and Entrepreneurship

Core Modules		
Module Code	Module 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 Planning	10
BMH 07312	Managerial Economics	10
BMH 07310	Quantitative Techniques	10
Elective module		
FAH 07305	Money and Banking	9
PSH 07304	Warehousing Management	9
TOTAL		69

Semester III BBA - Human Resource Management

Module Code	Module Name	Credits
HRH 07302	Principles 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

Semester III BBA - Accounting and Finance

Module Code	Module Name	Credits
FAH 07302	Financial Accounting	8
FAH 07304	Auditing and Investigation	8
FAH 07305	Money and Banking	7
FAH 07306	Contemporary Issues in Accounting	8
FAH 07312	Accounting and Software Package	8
BMH 07312	Managerial Economics	10
BMH 07310	Quantitative Techniques	10
BMH 07313	Project Planning	10
TOTAL		69

Semester IV BBA - Procurement and Supply Chain Management

Core Modules		
Module Code	Module Name	Credits
PSH 07405	Public Procurement	9
PSH 07406	Inventory Control and Management	9
PSH 07407	Strategic Procurement	10
BMH 07411	Research Methodology	10
PSH 07402	Principles of Store Administration	10
MKH 07405	International Business	10
BMH 07117	Field Practical Training	8
Elective module		
MKH 07406	Business Planning and development	10
HRH 07411	Production Management	10
TOTAL		76

Semester IV BBA - Marketing and Entrepreneurship

Module Code	Module 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

Semester IV BBA - Human Resource Management

Core Modules		
Module Code	Module 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 module		
MKH 07406	Business Planning and development	10
MKH 07405	International Business	10
TOTAL		76

Semester IV BBA - Accounting and Finance

Module Code	Module Name	Credits
FAH 07407	International Finance	9
FAH 07408	Management Accounting	10
FAH 07409	Taxation	10
FAH 07410	Advanced Financial Accounting	10
FAH 07411	Financial Management	9
FAH 07403	Cost Accounting	10
BMH 07411	Research Methodology	10
BMH 07117	Field Practical Training	8
TOTAL		76

THIRD YEAR

B. Bachelor of Business Administration

Semester I BBA - Procurement and Supply Chain Management

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

Semester I BBA - Marketing and Entrepreneurship

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

Semester I BBA - Human Resource Management

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

Semester I BBA - Accounting and Finance

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

Semester II BBA - Procurement and Supply Chain Management

Module Code	Module Name	Credits
PSB 08209	Strategic Supply Chain Management	9
PSB 08210	International Procurement	7
PSB 08211	Procurement And Supply Audit	8
PSB 08212	Procurement Contract Management	9
PSB 08213	Legal Aspect Of Procurement	8
BMB 08208	Business Communication	10
PSB 08214	Clearing and Forwarding	8
FAB 08215	Risk Management	10
TOTAL		69

Semester II BBA - Marketing and Entrepreneurship

Module Code	Module 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

Semester II BBA - Human Resource Management

Module Code	Module 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

Semester II BBA - Accounting and Finance

Module Code	Module Name	Credits
FAB 08213	Corporate Finance	10
FAB 08214	Advanced Cost and Management Accounting	10
HRB 08218	Organizational Behaviour	10
HRB 08210	Strategic Management	10
FAB 08215	Risk Management	10
BMB 08214	Business Management Information System	9
BMB 08208	Business Communication	10
TOTAL		69

9.0 ACADEMIC RELATED UNITS

9.1 RESEARCH AND PUBLICATIONS DEPARTMENT

The Research and Publications Department is responsible for overall coordination and administration of Research and Publications activities. In addition, the department performs the following activities:

9.1.1 SPECIFIC OBJECTIVES OF RESEARCH AND PUBLICATION DEPARTMENT

- Coordinates projects for both students and staff.
- Plans and coordinates curriculum activities.
- Plans, organizes and produces posters, leaflets. Newsletters and other information documents.
- Arranges for academic workshops.
- Acts as the custodians of Research and Consultancy reports and disseminate findings for academic and other uses.

9.2 MUST CONSULTANCY BUREAU

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 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.

9.4 UNIVERSITY FACILITIES

9.4.1 ASSEMBLY HALL (THE NYERERE HALL)

The University has a multipurpose assembly hall named after the first president named "Nyerere Hall", it has a capacity to hold 800 people and is used for meetings, lectures and social functions and gatherings.

9.4.2 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.

9.4.3 SOCIAL CLUB

The social club provides recreational and accommodation services to guests and members of the University community.

Provides meals services to off campus and private sponsored students and members of the community a low costs.

9.4.4 MAMA/BABA LISHE

The University has a building where caterers (mama/ baba lishe) provide food service for the students. This service is meant to ensure that food at affordable prices is provided for the students who need it. Provision of this catering service at the University also ensures that meals are provided in a clean and safe environment.

UNIVERSITY EXAMINATION REGULATIONS

DEFINITIONS

University	Means Mbeya University of Science and Technology
Student	Means any person admitted for any course of study conducted by the University
Course	means the totality of modules offered towards the award of certificate
Module	means any independent unit(s) that make up a course of study offered and has unique identification code
Semester	The time provided for which learning taking place at 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
Examination	Means any supervised assessment (CA and/or SE)
Continuous Assessment	An assessment process that consists of quizzes, take-home assignments, case studies, class tests and field/project work report where applicable.
Semester Examination	Means an examination administered at the end of a module as stipulated in these regulations
Controlled Assessment	Means assessments in which activities are set, administered and marked under controlled conditions at a time and place determined by the University as set by these regulations
Discontinuation	Means preventing a student to continue with studies before completing the programme
Carry forward	Means carrying forward a module into subsequent year shall imply repeating the failed module by fulfilling all requirements of the module
Supplementary Examinations	Examination administered following unsatisfactory results in the first sitting
Re-take	Means that the student shall not proceed to the next year of study instead he/she shall study the module afresh
Re-sit	Means to repeat the failed part of the assessment.
Valid/genuine reason(s)	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 academic reasons.

Appeal	A request for a review of a decision made by an Examinations Authority about the performance in an examination of a candidate.
Elective Module	Module chosen by a student from among the list given by the University in a given Semester for students to take in addition to any compulsory modules in that Semester and which is designated as such by the University.
Core Modules	An essential component of a course which must be completed by all students.
Examination cheating	Actions that are in conflict with the examination regulations that lead to the results being more favourably judged than would otherwise be the case
Provisional Results	Examination results which have not been approved by the Senate
Examination Misconduct	Failure to abide by general or specific examination regulation(s).
Pending Issue	An issue of which a decision is yet to be done, awaiting conclusion.
Unauthorized Material	Any form of materials which are not allowed into the examination venues.
Disqualification Grade	A grade that prevent someone from participating in an academic proceeding.
Special Examination	A form of assessment offered to students on the basis of an application for special consideration and is marked to the full range of marks (i.e. 0-100%)
Pre-requisite Module	An essential module of a course which must be completed before proceeding to the next level.
Abscndment	The act of being absent without prior information or without seeking permission from the authority
Incomplete Results	Results with the unfinished component of assessment.
Postpone Studies	Adjourn studies to a later date with the approval of the authority.
Postpone Examinations	Adjourn examinations to a later date with the approval of the authority.

EXAMINATION REGULATIONS FOR BACHELOR DEGREE

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 to in the whole examination process.

These Regulations shall apply to all Bachelor Degree Programmes offered by the University that are evaluated by any form of Assessment (CA/SE), except where otherwise indicated. These regulations pertain to all examinations that are conducted by the **College of Engineering and Technology (CET) and the School of Business Studies**. These regulations shall also apply to all other Departments under the College of Engineering and Technology which administer their own examinations.

The Regulations enunciated in this document shall be applied, appropriately modified, to suit Courses of up to 17 weeks duration.

10.1 General Examinations Regulations

- 10.1.1 No student shall be allowed to sit for examination if he/she is not dressed in a decent way that will allow the invigilator/supervisor to identify him/her.
- 10.1.2 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 every semester. Unless otherwise stated the weight of such Continuous Assessment in every module shall be 40% and final (semester) examination shall be 60%.
- 10.1.3 Where distribution of marks for a module does not conform to regulation 10.1.2 the distribution of marks for the module shall be as stipulated in the curriculum for a given module.
- 10.1.4 Continuous Assessment shall be open to students at least two weeks before sitting for the Semester Examination
- 10.1.5 Continuous Assessments reports for all examinable modules shall be uploaded in the Students Information System and the signed printout submitted to the Examinations office at least two weeks before commencement of semester examinations.
- 10.1.6 It shall be the duty of the concerned facilitator to inform the students at the beginning of the semester on the procedure of assessment that shall be followed in the semester for the respective module.
- 10.1.7 All modules shall be examined or otherwise assessed at the end of each semester and the results shall count in determining successful completion of studies.
- 10.1.8 Determination of pass or fail status shall be done at the end of each academic year.
- 10.1.9 A student who passes all the examinations in the academic year shall be allowed to proceed to the next UQF level.
- 10.1.10 A student who fails in one or more modules shall sit for supplementary examination(s) in the failed module(s) provided that the overall GPA is not less than 2.0

- 10.1.11 If after taking Supplementary Examinations, a student fails to attain a minimum pass mark in any of the modules, he/she will be allowed to carry forward the failed module provided that a GPA of 2.0 is attained.
- 10.1.12 All carried forward modules shall be attempted in the subsequent year. A student who does not attempt the carried forward modules in the subsequent year for no genuine reason shall be considered to have absconded.
- 10.1.13 Any student who gets a GPA less than 2.0 shall be discontinued from studies.
- 10.1.14 Any student discontinued due to failure to achieve the required GPA shall repeat the failed module(s) in succeeding years at his/her own cost until he/she passes all modules when he/she will be allowed to proceed with the next level.
- 10.1.15 Supplementary Examinations will be held before commencement of the next academic year.
- 10.1.16 The highest mark awarded in the supplementary examination(s) shall be 40% and this will be used in the calculation of GPA.
- 10.1.17 If a student fails in one or more of the carried forward module(s), he/she will be allowed to sit for supplementary examination in the module(s) in the subsequent supplementary examination session.
- 10.1.18 If a student fails in one or more module(s) in the supplementary examination of the carried forward module(s), he/she will be allowed to carry forward the failed module.
- 10.1.19 The carried forward module shall be graded as normal module assessment.
- 10.1.20 Examinations for carried forward modules shall be attempted in the subsequent year only, during the regular examination session.
- 10.1.21 A candidate who fails in a module that is assessed by Continuous Assessment only, shall carry forward the failed module to the next UQF level provided that his/her GPA is not less than 2.0.
- 10.1.22 A student who fails to submit examination(s), assignment(s), project(s) or absents himself/herself from any assessment session without valid or genuine reasons shall be considered to have absconded and shall be discontinued from studies.
- 10.1.23 A student failing to sit for supplementary/carried forward examination(s) in the prescribed examination session without a genuine reason shall be discontinued from studies.

- 10.1.24 A student who does not sit for the semester examination, either in part or in their entirety for genuine reasons stipulated in these regulations, shall be eligible to sit for a special examination. Such a student shall be considered to be attempting the examination for the first time.

10.2 Failure to attend an examination session

- 10.2.1 A student who for genuine reasons has not completed continuous assessment and or semester examination in a module(s) shall be awarded an Incomplete grade, abbreviated 'I'. Such a student will be required to sit for special examination(s) for that semester in order to make up the unfinished portion of the module assessment.
- 10.2.2 In case a student has incomplete in either CA and/or has to sit for special examinations in SE and has supplementary examinations, he/she will be allowed to sit for incomplete CA, special SE as well as the supplementary examinations. However, results of supplementary examinations shall not be considered unless the GPA after considering the results of the CA and Special Examination results amounts to 2.0.
- 10.2.3 A student who sat for the special examination stated in 10.2.1 shall be given the grade obtained.
- 10.2.4 A student whose examination results are nullified due to examination irregularity shall receive a Disqualification grade abbreviated "Q".
- 10.2.5 In the case where the candidate has been discontinued from studies for failure to appear for examination/assessments, he/she shall be denied from being reinstated or appearing to any examination/assessment to the University for a period not exceeding three years.
- 10.2.6 A student who falls sick during the examination period shall inform his/her Head of Department immediately and report to the University Health Centre. If this results in inability to sit for some or all modules, a certified medical report from the MUST Medical Doctor shall be forwarded to his/her Head of Department not more than 2 days after the incidence.

10.3 Declaration of Results

- 10.3.1 Provisional results shall be announced within three weeks from the date of the last Examination in that Semester.
- 10.3.2 Final results will include Industrial Practical Training (IPT) assessment and shall be announced three weeks from the date of completion of the IPT.

- 10.3.3 End of year results shall show grades obtained in each module and shall show recommendations regarding succeeding to next UQF level.
- 10.3.4 Results for any candidate in a module(s) shall be withheld if:
- a) He/she has not fulfilled some conditions for sitting for an examination
 - b) He/she has a pending issues that may affect the results
- 10.3.5 A candidate whose results are withheld shall not be allowed to continue with studies in subsequent semester up until his/her issues have been resolved and decision made.
- 10.3.6 In the case where a candidate may not continue with studies due to the length of time or procedure required to resolve the case, he/she shall be required to postpone his/her studies until the case is resolved
- 10.3.7 The University Senate shall approve the results which have been provisionally released to students.
- 10.3.8 The final classification of the higher diploma/degree shall be based on the performance of a candidate in all modules. The final score (GPA) for the higher diploma/Degree award shall be obtained from the average of the total score truncated to one decimal point.
- 10.3.9 On request by a candidate, the examination office may issue an academic progress report for any module(s) taken during the academic year provided that the candidate has paid the fee prescribed by the University, which shall be revised from time to time

10.4 Appeals Process

- 10.6.1 Any student who is not satisfied with his/her results shall appeal in writing using a prescribed form and submit within a period not exceeding 14 days from the date of provisional release of the results and address the appeal as follows:

Deputy Vice Chancellor-Academics, Research and Consultancy

Mbeya University of Science and Technology.

P.O. Box 131

MBEYA.

- 10.4.2 A request for an appeal hearing shall be accompanied by non-refundable fee, prescribed by the University, for a module(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.

- 10.4.3 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 semester/UQF level to another is not interfered.
- 10.4.4 The Senate Appeals Committee shall, on the basis of the laid down guidelines and procedures, hear the appeal, investigate, discuss and make recommendations accordingly.
- 10.4.5 In case of the necessity for re-marking, Principals/Deans shall appoint a suitable expert(s) in the relevant module to be a third marker. Third maker shall re-mark the respective script(s) using the same marking scheme used by the internal and external examiners
- 10.4.6 The results from the third maker shall be tabled before the Senate Appeals Committee for provisional approval before the final approval by the Senate.

10.5 Grading System and Conditions for Awards

- 10.5.1 Grades for each module shall be assigned with reference to ranges of scores for the various UQF levels as provided in the table below.

Score Range	Grade	Definition of grade
70-100	A	Excellent
60-69	B ⁺	Very good
50-59	B	Good
40-49	C	Average
35-39	D	Poor
0-34	E	Failure
I		Incomplete
Q	0	Disqualified

- 10.5.2 Classification of Awards

Grades for the different score ranges are assigned points as follows:-

- A – 5
- B+ – 4
- B – 3
- C – 2
- D – 1
- E – 0

The Grade Point Average (GPA) shall be computed from credits and grade weights and classified as shown in below

Class of Award*	Cumulative GPA
First Class	4.4 – 5.0
Upper Second Class	3.5 – 4.3
Lower Second Class	2.7 – 3.4
Pass	2.0 – 2.6

***A Class with Honor** (i.e. First, Upper Second and Lower Second Class with honor) is given to a student who has an increase of GPA progressively since the first semester to the last semester without having supplementary/carry forward during his/her studies.

11.0 COMPUTATION OF THE GRADE POINT AVERAGE (GPA)

11.1 Semester Grade Points Average

Semester GPA 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.

11.2 Cumulative Grade Points Average

Cumulative GPA refers to the summation of all grade points of all credit modules divided by the total number of credits taken by a student beginning from his admission till the last examination held.

$$\text{Cum. G.P.A.} = \frac{\text{Sum } \oint (P \times N)}{\text{Sum } \oint N}$$

Where:

P represents a grade point assigned to a letter grade scored by the student in module.

N is the number of credit associated with the module. Its value shall be truncated to a single decimal point.

11.3 Conditions for Awards

A candidate shall be deemed eligible for the award of a certificate of graduation, if there is evidence of:

11.3.1 A student shall qualify for the award (higher diploma/degree) if he/she has completed and passed all modules for the award and achieved a minimum cumulative GPA of 2.0 and has fulfilled all terms and conditions established by the University.

11.4 Regulations Concerning Elective Modules

- 11.4.1 All students shall be required to register for the elective modules as stipulated in the curriculum for each program. The Heads of Departments shall take the responsibility of informing the students on the elective modules that will be offered in that Semester.
- 11.4.2 No student shall be allowed to change the elective module, which he/she has registered for after the third week of that semester.
- 11.4.3 All elective modules shall be treated as any other modules.

11.5 Regulations Concerning Industrial Practical Training (IPT)

- 11.5.1 For each Degree programme there shall be Industrial Practical Training as stipulated in the curriculum.
- 11.5.2 Industrial Practical Training assessment shall count towards the final GPA.
- 11.5.3 A student who has been unable to complete the Industrial Practical Training for valid reasons, shall be assigned an “I” grade and shall be required to complete the training within a period specified by the University.
- 11.5.4 A student shall attend IPT for the specified duration set by the University
- 11.5.5 A student who could not complete the Industrial Practical Training for no genuine reasons shall be considered to have absconded and shall be discontinued from studies.
- 11.5.6 A student who, for some genuine reasons changes the allocated placement shall notify the Industrial Liaison Office (ILO) in writing within seven working days after reporting to the new location. Failure to report shall be considered to have absconded from studies.
- 11.5.7 Industrial Practical Training reports shall be submitted to the Industrial Liaison Officer within two weeks after completion of the IPT.
- 11.5.8 A student who, for no genuine reasons, fails to submit the logbook within a prescribed period of time shall be awarded a zero mark.
- 11.5.9 Any student who misses any part or assessment of any portion of the IPT shall be awarded a zero mark for the missing part or portion.
- 11.5.10 A student who fails in the IPT will be required to re-do the training at his/her own expense and within a period specified by the University.
- 11.6 Procedures and Conditions for Examinations

- 11.6.1 A student shall be required to pay prescribed fees at the beginning of each academic year in order to register for examinations. No student shall be allowed to sit for any examination if not registered.
- 11.6.2 A candidate shall sit for examination in a module if he/she has:
- i. Paid prescribed fees
 - ii. Attained at least 75% attendance in a module
- 11.6.3 The timetable for examinations shall be available and accessible at least two weeks before the commencement of the examinations.
- 11.6.4 It shall be the duty of the candidate to consult the examination timetable for changes at least 24 hours ahead of time.
- 11.6.5 No candidate shall enter the examination room until he/she is allowed by the invigilator/supervisor.
- 11.6.6 Each candidate must produce his/her Student Identity Card for inspection by the invigilator before attempting any examination.
- 11.6.7 No candidate shall be admitted to the examination room more than 30 minutes after the start of the examination.
- 11.6.8 No candidate shall be allowed to leave the examination room 30 minutes before the end of examination.
- 11.6.9 A candidate 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 candidate shall neither be allowed to return into the examination room nor leave with the question paper or answer booklets.
- 11.6.10 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.
- 11.6.11 A candidate may leave the examination room temporarily, only with the permission of the invigilator. In any such event, the invigilator will be required to satisfy him/herself that the candidate does not carry with him/her any unauthorized material.
- 11.6.12 A candidate who is allowed to leave the examination room temporarily will be accompanied while outside the examination room by an examination attendant designated by the invigilator.

- 11.6.13 A candidate shall not bring to the examination room any book, paper or written information or other unauthorized material. A candidate who is suspected of hiding unauthorized material may be asked by the invigilator to surrender the material and if necessary shall be subjected to a body search. Refusing to do so is tantamount to misconduct and will result in being denied entry to the examination room.
- 11.6.14 A candidate sitting for an examination or test shall be guilty of an irregularity if:
- i. He/she has in his/her possession any unauthorized materials such as written or printed document or memorandum, notes, sketch, map, diagram, any inadmissible 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 has been issued by an invigilator to cease such disturbance, improper conduct, or destroys what would have been evidence of such conduct.
- 11.6.15 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.
- 11.6.16 Smoking, drinking of beverages or doing other acts that may cause nuisance in the examination room is not allowed.
- 11.6.17 A candidate is required to bring all tools/equipment (i.e. calculator, ruler, drawing instruments) required for examination. No candidate shall be allowed to borrow or lend any tools/equipment from another candidate.
- 11.6.17 No candidate shall take away any answer booklet(s), whether used or unused, from the Examination room.
- 11.6.19 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.

- 11.6.20 Programmable calculators or calculators with facilities for storing and retrieving text are not permitted in the examination room.
- 11.6.21 Portable computers, electronic organizers, cellular phones and other devices capable of communicating directly with similar devices are not permitted in the examination room.
- 11.6.22 Any candidate found using an unauthorized calculator in an examination will be reported for suspected cheating. The device will be immediately confiscated and the University will be under no obligation to issue the student with a replacement device for the remainder of the examination.
- 11.6.23 All rough work shall be done at the back of the answer booklet(s) and must be cancelled to show that it is not part of the solutions/answers
- 11.6.24 A candidate is not allowed to write anything on the question paper(s). Any written information on the question paper will be treated as an unauthorized material(s).
- 11.6.25 Provision for examination offences and penalties stipulated in Annex I (1) of these regulations shall apply for any candidate found guilty of any offences

12.0 Instructions to Supervisors and Invigilators

- 12.1 The Deputy Principal/Dean (ARC) who shall also be the chief invigilator shall appoint a supervisor for each examination session.
- 12.2 For each examination, there shall be an invigilator appointed by the Deputy Principal/Dean (ARC) of the Institute, College or School as the case may be, in consultations with Heads of Departments or other appropriate authority.
- 12.3 The invigilator must report at the examination room at least quarter an hour before the commencement of the examination.
- 12.4 It is the responsibility of the Supervisor and the Invigilator at any examination to ensure orderly proceedings including making sure that candidates are not in possession of any unauthorized material before being allowed to enter the examination room.
- 12.5 The Invigilator may allow candidates to the examination room a quarter of an hour to time, and when seated, shall make sure that candidates:
 - i. Satisfy themselves that they are in possession of the correct paper.
 - ii. Read carefully the rubric on the examination paper.
 - iii. Commence work on the specified time.

- 12.6 The Invigilator shall not allow any candidate who reports half an hour after the commencement of the examination.
- 12.7 When the examination is in progress, the Invigilator shall mark the attendance list and note every instance of absence. In doing this, the Invigilator shall check student ID card of each candidate to satisfy him/herself that the candidate is qualified to do the examination.
- 12.8 The Supervisor/ Invigilator may permit a candidate to leave the examination room temporarily only on sufficient reason(s). He/she must designate another Invigilator/examination attendant to accompany the candidate. In such a case the invigilator shall keep records of student(s) who leave the examination room temporary.
- 12.9 The Supervisor shall go round the examination room(s) as often as he/she deems necessary to ensure that there are no irregularities.
- 12.10 The Supervisor/Invigilator shall not engage himself/herself in any activity other than invigilation during the examination.
- 12.11 The Invigilator shall announce to candidates at reasonable intervals the time available to them from time to time and eventually must announce for examination to stop.
- 12.12 On stoppage of examination, the Invigilator shall instruct candidates to leave the answer booklets appropriately labeled on their tables, collect answer booklets and instruct candidates to leave the examination room.
- 12.13 It shall be the responsibility of the Invigilator to count all answer booklets against the attendance list, for submission to the Examination Officer or any authorized person. The supervisor/invigilator shall also return all unused answer booklets, question papers and other materials to the Examination Officer's.
- 12.14 The Supervisor/Invigilator shall fill and submit irregularity report form (MUST form Exam 19) on each examination to the examinations officer and copied to the Head of Department who will eventually report to the appropriate authority.
- 12.15 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.
- 12.16 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. All improper materials shall be confiscated and the candidate may be stopped from proceeding with that examination by the Invigilator. His/her results will be withheld pending to decision.
 - iii. The candidates shall be required to sign on the Invigilator's brief written facts of the issue on the material time and place, in front of the Invigilator. Other nearby invigilator(s) shall also be required to sign as witnesses of the signing between the invigilator and the offender.
- 12.17 Failure or refusal to sign on the Invigilator's facts report (article 10.16 iii) is deemed to be 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 may lead to discontinuation from studies.
- 12.18 The invigilator shall adhere to all provisions under section 9.5 through 9.24

13.0 Regulations concerning Setting, Moderation and Marking of Semester

Examinations

- 13.1 The examination process shall involve setters, moderators and markers.
- 13.2 The criteria, procedure to appoint setters, moderators and markers together with their roles are stipulated in separate document, Examination Procedures.

14.0 Examination Offences and Penalties

- 14.1 Any candidate who contravenes any of the requirements or conditions stipulated in these regulations shall have committed an examination offence and shall be liable for penalty as prescribed in Annex 1.

15.0 Interpretation and Review of Examination Regulations

- 15.1 The University Senate shall be the final authority for the interpretation of the Examination Regulations.
- 15.2 The Examination Regulations are subject to review from time to time as may be determined by the University Senate.

16.0 EXAMINATION REGULATIONS FOR ORDINARY DIPLOMA PROGRAMMES

16.1 General Examinations Regulations

- 16.1.1 No student shall be allowed to sit for examination if he/she is not dressed in a decent way that will allow the invigilator/supervisor to identify him/her.
- 16.1.2 Student performance shall be assessed continuously throughout the course. Such Continuous Assessment shall include at least two timed tests under examination conditions and, homework exercises every semester. The weight of such Continuous Assessment in every module shall be 40% and final (semester) examination shall be 60%.
- 16.1.3 Where distribution of marks for a module does not conform to regulation 16.1.2 the distribution of marks for the module shall be as stipulated in the curriculum for a given module.
- 16.1.4 A student shall be required to pass both Continuous Assessment and Semester Examination.
- 16.1.5 A student who fails both Continuous Assessment and Semester Examination shall be required to carry forward the module in the subsequent year. The student shall incur the cost of carrying forward the module.
- 16.1.6 A student who fails either Continuous Assessment or Semester Examination shall sit for a supplementary examination of the failed part. A student who fails Continuous Assessment shall incur the cost of supplementing the Continuous Assessment.
- 16.1.7 A student who supplements Continuous Assessment or Semester examination shall not be awarded a mark higher than a minimum pass in the supplemented part
- 16.1.8 A student who fails supplementary examination of either the Continuous Assessment or Semester Examination shall carry forward the module
- 16.1.9 Continuous Assessment shall be open to students at least two weeks before sitting for a Semester Examination
- 16.1.10 Continuous Assessments reports for all examinable modules shall be uploaded in the Students Information System and the signed printout submitted to the Examinations office at least two weeks before commencement of semester examinations.
- 16.1.11 It shall be the duty of the concerned facilitator to inform the students at the beginning of the semester on the procedure of assessment that shall be followed in the semester for the respective module.

- 16.1.12 All modules shall be examined or otherwise assessed at the end of each semester and the results shall count in determining successful completion of studies.
- 16.1.13 Determination of pass or fail status shall be done at the end of each academic year.
- 16.1.14 The pass mark for CA and SE in each module shall be; 50% for NTA 4 – NTA 5 and 45% for NTA 6.
- 16.1.15 A student who passes all the examinations in the academic year shall proceed to the next NTA level.
- 16.1.17 A student who fails in one or more modules shall sit for supplementary examination(s) in the failed module(s) provided that the overall GPA is not less than 2.0
- 16.1.18 If after taking supplementary examinations a student fails to obtain a minimum pass mark in any of the modules, he/she will be allowed to carry forward the failed module provided that the module(s) is not a pre-requisite of the next module(s) and the overall GPA is not less than 2.0.
- 16.1.19 All carried forward modules shall be attempted in the subsequent year. A student who does not attempt the carried forward modules in the subsequent year for no genuine reason shall be considered to have absconded.
- 16.1.20 A student who gets a GPA less than 2.0 shall be discontinued from studies. Such a student shall be allowed to repeat the failed module(s) in succeeding years at his/her own costs until he/she passes all modules when he/she will be allowed to proceed with the next level.
- 16.1.21 Supplementary Examinations will be held before commencement of the following academic year.
- 16.1.22 The highest mark awarded in the supplementary examination(s) shall be the pass mark stipulated for the given level (i.e. 50% for NTA 4 – NTA 5 and 45% for NTA 6) and this will be used in the calculation of GPA.
- 16.1.23 If a student fails in one or more of the carried forward module(s), he/she will be allowed to sit for supplementary examination in the module(s) in the subsequent supplementary examination session.
- 16.1.24 The carried forward module shall be graded as normal module assessment.
- 16.1.25 If a student fails in one or more module(s) in the supplementary examination of the carried forward module(s), he/she will be allowed to carry forward the failed module.

- 16.1.26 Examinations for carried forward modules shall be attempted in the subsequent year only, during the supplementary examination session of the university or regular examination session if the examination schedule allows.
- 16.1.27 A student who fails in a module that is assessed by Continuous Assessment only shall carry forward the failed module to the next NTA level provided that his/her GPA is not less than 2.0 and the carried forward module is not a pre-requisite module.
- 16.1.28 A student who fails to submit an examination(s), assignment(s), project(s) or is absent from any Examination/assessment session without valid or genuine reasons shall be considered to have absconded and he/she shall consequently be discontinued from studies.
- 16.1.29 A student failing to sit for supplementary/carried forward examination(s) in the prescribed examination session without a genuine reason shall be regarded to have absconded and hence shall be discontinued from studies.
- 16.1.30 A student who does not sit for the semester examination, either in part or in their entirety for genuine reasons stipulated in these regulations, shall be eligible to sit for a special examination. Such a student shall be considered to be attempting the examination for the first time.
- 16.1.31 A student who does not sit for semester examination in a module(s) because of failed/incomplete continuous assessments shall be allowed to carry forward the module(s), provided the GPA calculated from the completed modules is not less than 2.0.

16.2 Failure to Attend an Examination Session

- 16.2.1 A student who, for genuine reasons, has not completed continuous assessment and/or semester examination in a module(s) shall be awarded an Incomplete grade, abbreviated 'I'. Such a student will be required to sit for special examination(s) for that semester in order to make up the unfinished portion of the module assessment
- 16.2.2 In case a student has incomplete in either CA and/or has to sit for special examinations in SE and has supplementary examinations, he/she will be allowed to sit for incomplete CA, special SE as well as the supplementary examinations. However, results of supplementary examinations shall not be considered unless the GPA after considering the results of the CA and Special Examination results amounts to 2.0.
- 16.2.2 A student who sat for the special examination stated in 16.2.1 shall be given the grade obtained.

- 16.2.3 A student whose examination results are nullified due to examination irregularity shall receive a Disqualification grade abbreviated “Q”.
- 16.2.4 In the case where the candidate has been discontinued from studies for any reason, he/she shall be denied from being reinstated or appearing to any examination/assessment to the University for a period not exceeding three years.
- 16.2.5 A student who falls sick during examination period shall inform his/her Head of Department immediately and report to the University Health Centre. If this results in inability to sit for some or all modules, a certified medical report from the MUST Medical Doctor shall be forwarded to his/her Head of Department not more than 2 days after the incidence.

16.3 Declaration of Results

- 16.3.1 Provisional results shall be announced within three weeks from the date of the last Examination in that Semester.
- 16.3.2 Final results will include Industrial Practical Training (IPT) assessment and shall be announced three weeks from the date of completion of the IPT
- 16.3.3 End of year results shall show grades obtained in each module and shall show recommendations regarding succeeding to next NTA level.
- 16.3.4 Results for any candidate in a module(s) shall be withheld if:
- i. He/she has not fulfilled some conditions for sitting for an examination.
 - ii. He/she has pending issues that will affect the results.
- 16.3.5 A candidate whose results are withheld shall not be allowed to continue with studies in subsequent semester up until the issue is resolved and decision made.
- 16.3.6 In the case where a candidate may not continue with studies due to the length of time or procedure required to resolve the case, he/she shall be required to postpone his/her studies until the case is resolved.
- 16.3.7 The University Senate shall approve the results which have been provisionally released to students.

- 16.3.8 The final classification of the diploma/certificate shall be based on the performance of a candidate in all modules. The final score (GPA) for the Diploma/certificate award shall be obtained from the average of the total score truncated to one decimal point.
- 16.3.9 On request by a candidate, the examination office may issue an academic progress report for any module(s) taken during the academic year provided that the candidate has paid the fee prescribed by the University, which shall be revised from time to time.

16.4 Appeals Process

- 16.4.1 Any student who is not satisfied with his/her results shall appeal in writing using a prescribed forms and submit within a period not exceeding 14 days from the date of release of provisional results and address the appeal to:

**Deputy Vice Chancellor-Academics, Research and Consultancy
Mbeya University of Science and Technology.
P.O. Box 131
MBEYA.**

- 16.4.2 A request for an appeal hearing shall be accompanied by non-refundable fee, prescribed by the University, for a module(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.
- 16.4.3 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 semester/NTA level to another is not interfered.
- 16.4.4 The Senate Appeals Committee shall, on the basis of the laid down guidelines and procedures, hear the appeal, investigate, discuss and make recommendations accordingly.
- 16.4.5 In case of the necessity for re-marking, Principals/Deans shall appoint a suitable expert(s) in the relevant module to be a third marker. Third maker shall re-mark the respective script(s) using the same marking scheme used by the Internal and External Examiners
- 16.4.6 The results from the third maker shall be tabled before the Senate Appeals Committee for provisional approval before the final approval of the Senate.

16.5 Grading System and Conditions for Awards

- 16.5.1 Grades for each module shall be assigned with reference to ranges of scores for the various NTA levels as provided in the below.

Grades for Different Score Ranges

NTA Levels 4-5		NTA Levels 6	
Grade	Score Range	Grade	Score Range
A	80-100	A	75-100
B	65-79	B+	65-74
C	50-64	B	55-64
D	40-49	C	45-54
F	0-39	D	35-44
I		F	0-34
Q		I	
		Q	

16.5.2 Different grades are assigned points as follows:-

For NTA levels 4 – 5	For NTA levels 6
A – 4	A – 5
B – 3	B+ – 4
C – 2	B – 3
D – 1	C – 2
F – 0	D – 1
	F – 0

16.5.3 The Grade Point Average (GPA) shall be computed from credits and grade weights and classified as shown in table below.

Awards Classification

NTA Levels 4 – 5		NTA Levels 6	
Class of Award	Cumulative GPA	Class of Award	Cumulative GPA
First Class	3.5 – 4.0	First Class	4.4 – 5.0
Second Class	3.0 – 3.4	Upper Second Class	3.5 – 4.3
Pass	2.0 – 2.9	Lower Second Class	2.7 – 3.4
		Class	2.0 – 2.6
		Pass	

16.5.4 Grade Point Average (GPA) is computed by taking 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.

$$GPA = \frac{\text{Sum } \phi (P \times N)}{\text{Sum } \phi N}$$

Where:

- P represents a grade point assigned to a letter grade scored by the student in module.
- N is the number of credit associated with the module. Its value shall be truncated to a single decimal point.

16.6 Conditions for Awards

- 16.6.1 A student shall qualify for the award (certificate/diploma) if he/she has completed and passed all modules for the award and achieved a minimum cumulative GPA of 2.0 and has fulfilled all terms and conditions established by the University.

16.7 Regulations Concerning Elective Modules

- 16.7.1 All students shall be required to register for the elective modules as stipulated in the curriculum for each program. The Heads of Departments shall take the responsibility of informing the students on elective modules that will be offered in that Semester.
- 16.7.2 No student shall be allowed to change the elective module, which he/she has registered for after the third week of that semester.
- 16.7.3 All elective modules shall be treated as any other modules.

16.8 Regulations Concerning Industrial Practical Training (IPT)

- 16.8.1 For each Diploma programme there shall be Industrial Practical Training as stipulated in the curriculum.
- 16.8.2 Industrial Practical Training assessment shall count towards the final GPA.
- 16.8.3 A student who has been unable to complete the Industrial Practical Training for valid reasons, shall be assigned an “I” grade and shall be required to complete the training within a period specified by the University.
- 16.8.4 A student shall attend IPT for the specified duration set by the University.
- 16.8.5 A student who could not complete the Industrial Practical Training for no genuine reasons shall be considered to have absconded and he/she shall be discontinued from studies.

- 16.8.6 A student who, for some genuine reasons changes the allocated placement shall notify the Industrial Liaison Officer (ILO) in writing within seven working days after reporting to the new location. Failure to report shall be considered to have absconded from studies.
- 16.8.7 Industrial Practical Training reports shall be submitted to the Industrial Liaison Officer within two weeks after completion of the IPT.
- 16.8.8 A student who, for no genuine reasons, fails to submit the logbook within a prescribed period of time, he/she shall be awarded a zero mark.
- 16.8.9 Any student who misses any part or assessment of any portion of the IPT shall be awarded a zero mark for the missing part or portion.
- 16.8.10 A student who fails in the IPT will be required to re-do the training at his/her own expense and within a period specified by the University.

16.9 Procedures and Conditions for Examinations

- 16.9.1 A student shall be required to pay prescribed fees at the beginning of each academic year in order to register for examinations. No student shall be allowed to sit for any examination if not registered.
- 16.9.2 A candidate shall sit for examination in a module if he/she has:
- i. paid prescribed fees
 - ii. attained at least 75% attendance in the module, and
- 16.9.3 The timetable for examinations shall be available and accessible at least two weeks before the commencement of the examinations.
- 16.9.4 It shall be the duty of the candidate to consult the examination timetable for changes at least 24 hours ahead of time.
- 16.9.5 No candidate shall enter the examination room until he/she is allowed by the invigilator/supervisor.
- 16.9.6 Each candidate must produce his/her Student Identity Card for inspection by the invigilator before attempting any examination.
- 16.9.7 No candidate shall be admitted to the examination room more than 30 minutes after the start of the examination.
- 16.9.8 No candidate shall be allowed to leave the examination room 30 minutes before the end of examination.
- 16.9.9 A candidate 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 candidate shall neither be allowed to return into the examination room nor leave out with the question paper or answer booklets.

- 16.9.10 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.
- 16.9.11 A candidate may leave the examination room temporarily, only with the permission of the invigilator. In any such event, the invigilator will be required to satisfy him/herself that the candidate does not carry with him/her any unauthorized material.
- 16.9.12 A candidate who is allowed to leave the examination room temporarily will be accompanied while outside the examination room by an examination attendant designated by the invigilator.
- 16.9.13 A candidate shall not bring to the examination room any book, paper or written information or other unauthorized material. A candidate who is suspected of hiding unauthorized material shall be asked by the invigilator to submit the material and if necessary shall be subjected to a body search. Refusing to do so is tantamount to misconduct and will result in being denied entry.
- 16.9.14 A candidate sitting for an examination or test shall be guilty of an irregularity if:
- i. He/she has in his/her possession any unauthorized materials such as written or printed document or memorandum, notes, sketch, map, diagram, any inadmissible 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 has been issued by an invigilator to cease such disturbance, improper conduct, or destroys what would have been evidence of such conducts.
- 16.9.15 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.

- iii. Smoking, drinking of beverages or doing other acts that may cause nuisance in the examination room is not allowed.
- 16.9.16 A candidate is required to bring all tools/equipment (i.e. calculator, ruler, drawing instruments) required for examination. No candidate shall be allowed to borrow or lend any tools/equipment from another candidate.
- 16.9.17 No candidate shall take away any answer booklet(s), whether used or unused, from the Examination room.
- 16.9.18 A candidate should 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.
- 16.9.19 Programmable calculators or calculators with facilities for storing and retrieving text are not permitted in the examination room.
- 16.9.20 Portable computers, electronic organizers, cellular phones and other devices capable of communicating directly with similar devices are not permitted in the examination room.
- 16.9.21 Any candidate found using an unauthorized calculator in an examination will be reported for suspected cheating. The device will be immediately confiscated and the University will be under no obligation to issue the student with a replacement device for the remainder of the examination.
- 16.9.22 All rough work shall be done at the back of the answer booklet(s) and must be cancelled to show that it is not part of the solutions/answers
- 16.9.23 A candidate is not allowed to write anything on the question paper(s). Any written information on the question paper will be treated as an unauthorized material(s).
- 16.9.24 Provision for examination offences and penalties stipulated in Annex I (1) of these regulations shall apply for any candidate found guilty of any offences

16.10 Instructions to Supervisors and Invigilators

- 16.10.1 The Deputy Principal/Dean (ARC) who shall also be the chief invigilator shall appoint a supervisor for each examination session.
- 16.10.2 For each examination, there shall be an invigilator appointed by the Deputy Principal/Dean (ARC) of the Institute, College or School as the case may be, in consultations with Heads of Departments or other appropriate authority.
- 16.10.3 The invigilator must report at the examination room at least quarter an hour before the commencement of the examination.

- 16.10.4 It is the responsibility of the Supervisor and the Invigilator at any examination to ensure orderly proceedings including making sure that candidates are not in possession of any unauthorized material before being allowed to enter the examination room.
- 16.10.5 The Invigilator may allow candidates to the examination room a quarter of an hour to time, and when seated, shall make sure that candidates:
- i. Satisfy themselves that they are in possession of the correct paper.
 - ii. Read carefully the rubric on the examination paper.
 - iii. Commence work on the specified time.
- 16.10.6 The invigilator shall not allow any candidate who reports half an hour after the commencement of the examination.
- 16.10.7 When the examination is in progress, the Invigilator shall mark the attendance list and note every instance of absence. In doing this, the Invigilator shall check student ID card of each candidate to satisfy him/herself that the candidate is qualified to do the examination.
- 16.10.8 The Supervisor/ Invigilator may permit a candidate to leave the examination room temporarily only on sufficient reason(s). He/she must designate another Invigilator to accompany the candidate. In such a case the invigilator shall keep records of student(s) who leave the examination room temporary.
- 16.10.9 The Supervisor shall go around the examination room(s) as often as he/she deems necessary to ensure that there are no irregularities.
- 16.10.10 The Supervisor/Invigilator shall not engage himself/herself in any activity other than invigilation during the examination.
- 16.10.11 The invigilator shall announce to candidates at reasonable intervals the time available to them and eventually must announce for examination to stop.
- 16.10.12 On stoppage of examination, the Invigilator shall instruct candidates to leave the answer booklets appropriately labeled on their tables, collect answer booklets and instruct candidates to leave the examination room.
- 16.10.13 It shall be the responsibility of the Invigilator to count all answer booklets against the attendance list, for submission to the examinations officer or any authorized person. The supervisor/invigilator shall also return all unused answer booklets, question papers and other materials to the examinations office.

- 16.10.14 The supervisor/invigilator shall fill and submit irregularity report form (MUST form Exam 19) on each examination to the examinations officer and copied to the Head of Department who will eventually report to the appropriate authority.
- 16.10.15 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.
- 16.10.16 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. All improper materials shall be confiscated and the candidate may be stopped from proceeding with that examination by the Invigilator. His/Her results will be withheld pending to decision.
 - iii. The candidates shall be required to sign on the Invigilator's brief written facts of the issue on the material time and place, in front of the Invigilator. Other nearby invigilator(s) shall also be required to sign as witnesses of the signing between the invigilator and the offender.
- 16.10.17 Failure or refusal to sign on the Invigilator's facts report (article 10.16 iii) is deemed to be 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 may lead to discontinuation from studies.
- 16.10.18 The invigilator shall adhere to all provisions under section 9.5 through 9.24
- 16.10.19 The Invigilator shall have the mandate to relocate the student in the examination room when deemed necessary.

16.11 Regulations concerning Setting, Moderation and Marking of Semester Examinations

- 16.11.1 The examination process shall involve setters, moderators and markers.
- 16.11.2 The criteria, procedure to appoint setters, moderators and markers together with their roles are stipulated in separate document, Examination Procedures.

16.12 Examination Offences and Penalties

16.12.1 Any candidate who contravenes any of the requirements or conditions stipulated in these regulations shall have committed an examination offence and shall be liable for penalty as prescribed in Annex II.

16.13 Interpretation and Review of Examination Regulations

16.13.1 The University Senate shall be the final authority for the interpretation of the Examination Regulations.

16.13.2 The Examination Regulations are subject to review from time to time as may be determined by the University Senate.

ANNEX I

EXAMINATION OFFENCES AND PENALTIES FOR BACHELOR DEGREE AND ORDINARY DIPLOMA STUDENTS

<i>S/ NO.</i>	<i>OFFENCE</i>	<i>PENALTY</i>
1	Possession or access of unauthorized papers books or notes that could be of assistance to a candidate.	<ul style="list-style-type: none"> • Nullification of a candidate's examination results • Disqualification of a candidate from appearing in any University examination for a minimum of one year up to a maximum of three years
2	Talking to another candidate or any person inside or outside the examination room, during the examination session, without the permission of a member of supervisory staff.	<ul style="list-style-type: none"> • Nullification of a candidate's examination results • Disqualification of a candidate from appearing in any University examination for a minimum of one year up to a maximum of three years
3	Receiving or attempting to receive or give help to another candidate.	<ul style="list-style-type: none"> • Nullification of a candidate's examination results • Disqualification of a candidate from appearing in any University examination for a minimum of one year up to a maximum of three years
4	Copying or indulging in copying from any paper or notes or allowing any other candidate to copy any matter from his/her answer book or to render in any manner any assistance to another candidate in solving a question or a part of question set in the question paper.	<ul style="list-style-type: none"> • Nullification of candidate's examinations results. • Disqualification of a candidate from appearing in any University examination for a minimum of one year up to a maximum of three years
5	Consulting books, note books or papers or any other matter found with him/her while outside the examination room but during the examination hours before he/she has handed over his/her answer book to the invigilator or any other member of the supervisory staff.	<ul style="list-style-type: none"> • Nullification of candidate's examinations results • Disqualification of a candidate from appearing in any University examination for a minimum of one year up to a maximum of three years
6	Writing on any other piece of paper, or anywhere, a question set in the paper or anything connected with or relating to a question set in the paper or solution thereof.	<ul style="list-style-type: none"> • Nullification of candidate's examinations results. • Disqualification of a candidate from appearing in any University examination for a minimum of one year up to a maximum of three years

7	Passing/receiving or attempting to pass on or receive during the examination, a copy of a question set in the paper or the question paper itself or a part thereof or a solution of a question set in the question paper, to anyone.	<ul style="list-style-type: none"> Nullification of candidate's examinations results. Disqualification of a candidate from appearing in any University examination for a minimum of one year up to a maximum of three years
8	Possession of solution to a question set in the paper in connivance with any member of a supervisory or any other staff or some outside agency.	<ul style="list-style-type: none"> Nullification of candidate's examinations results. Disqualification of a candidate from appearing in any University examination for a minimum of one year up to a maximum of three years
9	Making previous arrangements to obtain help in connection with the question paper.	<ul style="list-style-type: none"> Nullification of candidate's examinations results. Disqualification of a candidate from appearing in any University examination for a minimum of one year up to a maximum of three years Disqualification of the person with whom the candidate has made previous arrangement from appearing in University examination for a period up to three years.
10	Smuggling in an answer book or a continuation sheet 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 connivance of any person connected with the examination center or of any agency within or outside examination center.	<ul style="list-style-type: none"> Nullification of candidate's examinations results. Disqualification of a candidate from appearing in any University examination for a minimum of one year up to a maximum of three years
11	Writing outside the examination hall, an answer book or a continuation sheet for a candidate, which the latter smuggles into the examination hall or to replace the answer book of the candidate after the examination.	<ul style="list-style-type: none"> Nullification of candidate's examinations results. Disqualification of a candidate from appearing in any University examination for a minimum of one year up to a maximum of three years
12	Misconduct or misbehaving towards the invigilator or any member of the supervisory staff.	<ul style="list-style-type: none"> Nullification of candidate's examinations results. Disqualification of a candidate from appearing in any University examination for a minimum of one year up to a maximum of three years

13	Impersonating a candidate.	<ul style="list-style-type: none"> • Nullification of candidate's examinations results. • Expulsion from the University • That person may be reported to the police. • The candidate for whom impersonation was attempted shall also be expelled.
14	Obtaining admission to the examination on a false representation (<i>e.g. the student has not fulfilled conditions for admission to the examination</i>) made by a candidate in his/her examination registration.	<ul style="list-style-type: none"> • Nullification of candidate's examinations results. • Declare a candidate ineligible to appear in the examination.
15	Forging another person's signature on a candidate's examination registration form or using a forged document knowing it to be forged and with a view to seeking admission.	<ul style="list-style-type: none"> • Nullification of candidate's examinations results. • Disqualification of a candidate from appearing in the examination which she/he is found guilty for a minimum of one year up to a maximum of three years
16	Leaving the examination room without delivering the answer book to the invigilator concerned and taking away the same with him or intentionally tearing off or otherwise disposing off his answer book or any part thereof or the continuation sheet or part thereof inside or outside the examination room.	<ul style="list-style-type: none"> • Nullification of candidate's examinations results. • Disqualification of a candidate from appearing in any University examination for a minimum of one year up to a maximum of three years
17	Deliberately disclose his identity or making distinctive marks in his answer book for that purpose.	<ul style="list-style-type: none"> • Nullification of candidate's examinations results and/or • Disqualification of a candidate from appearing in any University examination for a minimum of one year up to a maximum of three years
18	Communicating or attempting to communicate directly or through a relative, guardian or friend with an examiner or with any other person with the objective of influencing him in the award or marks.	<ul style="list-style-type: none"> • Nullification of examination results. and/or • Disqualification of a candidate from appearing in any University examination for a minimum of one year up to a maximum of three years
19	Approaching or influencing directly or indirectly a member of the University staff regarding his/her cheating case.	<ul style="list-style-type: none"> • Disqualification of a candidate from appearing in any University examination for a minimum of one year up to a maximum of three years



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