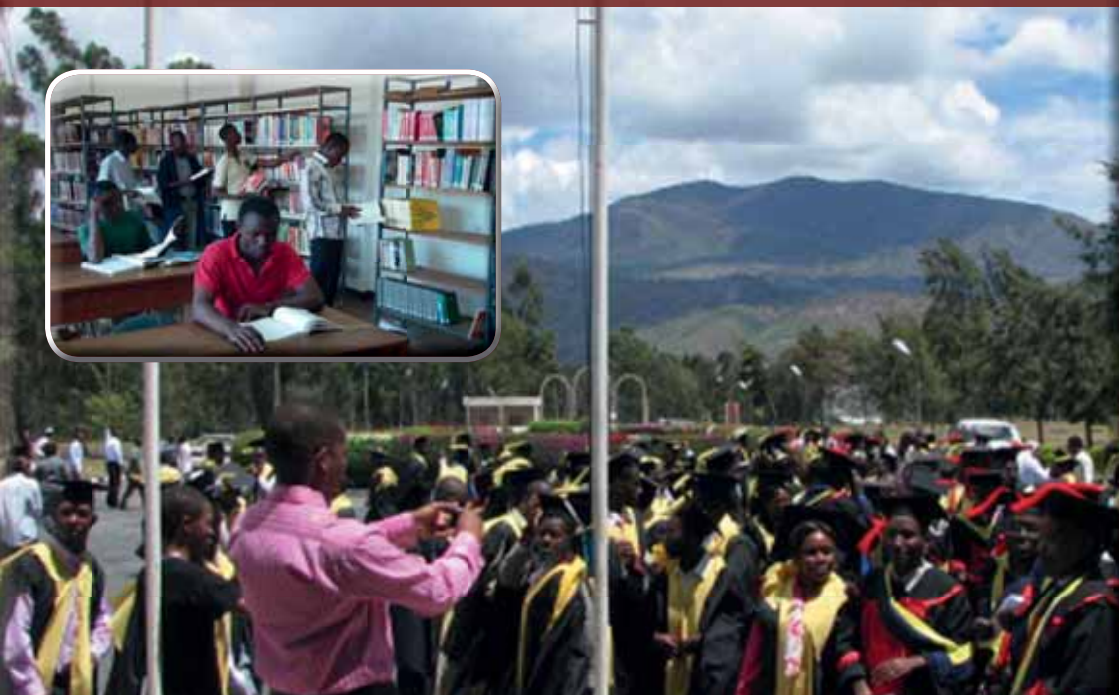


# Mbeya Institute of Science and Technology – MIST



Endeavouring to lead in Science and Technology

## Prospectus 2010/ 2011







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**Prospectus 2010/ 2011**



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# 1.0 INTRODUCTION

## 1.1 Principal's Message

Mbeya Institute of Science and Technology (MIST) 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. MIST 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. MIST, 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 of Mbeya Institute of Science and Technology (MIST)

Mbeya Institute of Science and Technology (MIST) is a product of Mbeya Technical College that was in operation since 1986 to 2005. The Government of the United Republic of Tanzania established Mbeya Technical College (MTC) during the campaign to expand Technical Education in Tanzania in the mid 1980's

The college was constructed and equipped under the technical cooperation agreement between the Government of the United Republic of Tanzania and the government of the former Union of Soviet Socialist Republic (USSR). It was officially launched on 1<sup>st</sup> September, 1986 with students' enrollment in four academic departments namely; the Department of Civil Engineering with Architecture section, the Department of Electrical Engineering, the Department of Mechanical Engineering and the Department of General Subjects. The three engineering departments were offering Full Technician Certificate programs whose duration was four years. In 1990, the Section of Architecture became independent from Civil Engineering Department, hence the Department of Architecture was established.

In 1991 the curriculum was reviewed reducing the duration of the training programme to three years to match with other technical colleges in the country.

On 1<sup>st</sup> April, 2005, the Parliament of the United Republic of Tanzania through

the National Council for Technical Education Establishment Order of 2004, also through section 9 of the National Council for Technical Education Act of 1997, declared a transformation of Mbeya Technical College (MTC) into Mbeya Institute of Science and Technology (MIST).

The transformation was done to fulfill a long-term plan, made during the first phase government, under the President of the United Republic of Tanzania, the late Mwalimu Julius K. Nyerere. The long-term plan made was to transform Mbeya Technical College to the University of Science and Technology.

### **1.3 Location**

Mbeya Institute of Science and Technology is situated in the Southern Highland zone of Tanzania in Mbeya city occupying an area of 1000 hectares. The Institute is 10 Km away from the city center, and it is 3km away from the Mbeya -Tunduma highway. The road to MIST branches from the highway at the Iyunga ‘ORYX’ filling station.

### **1.4 Vision**

The vision of Mbeya Institute of Science and Technology is to become the centre of excellence for applied education in Science and Technology, Research and Consultancy.

### **1.5 Mission**

The mission of Mbeya Institute of Science and Technology is to develop Academically, Technologically and Socially Competent Students who will be responsive to the broader needs and challenges of the society specified by:

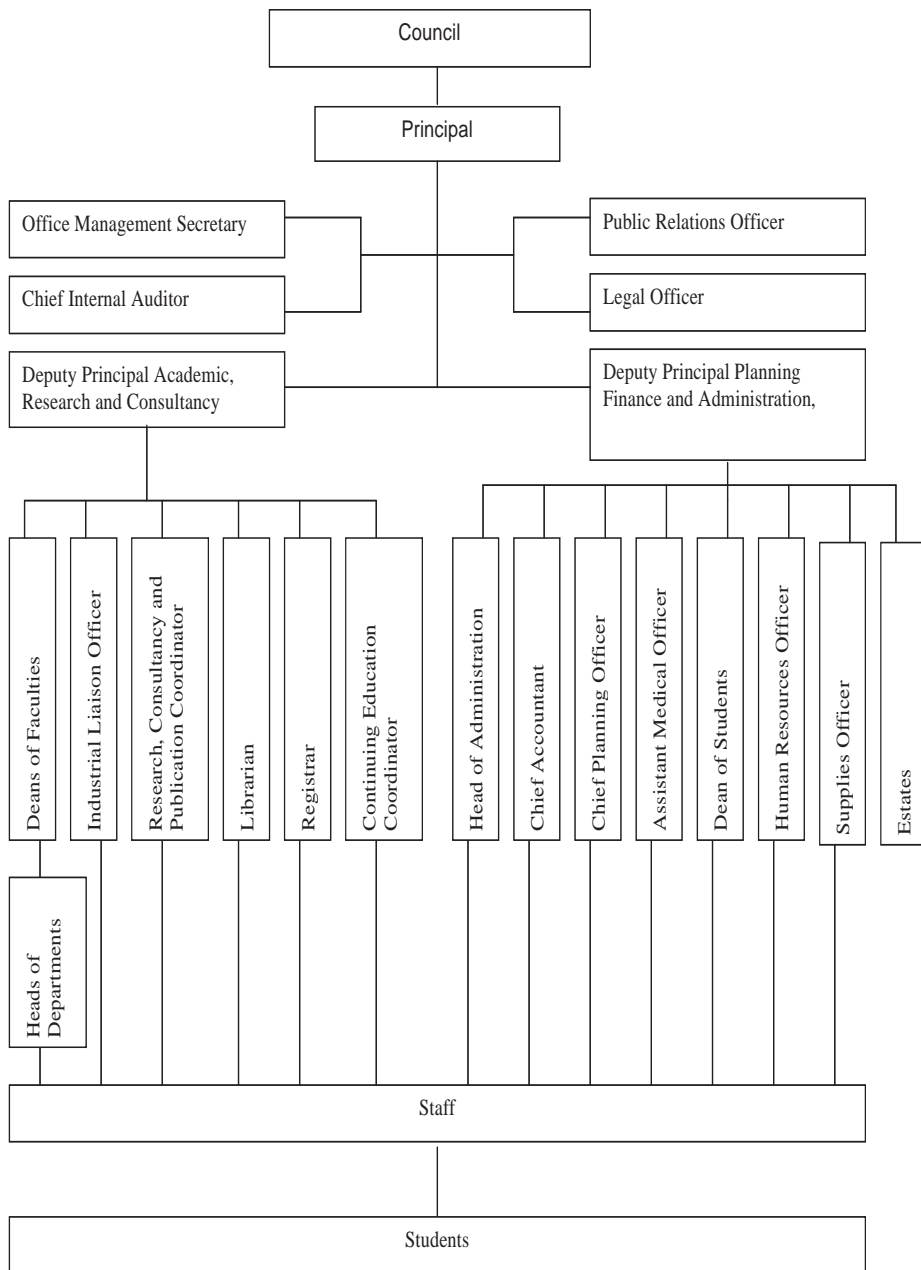
- i. Facilitating appropriate tuition, practical training and support according to the needs of students and other customers.
- ii. Encouraging staff commitment to quality education and services including research and consultancy.
- iii. Fostering lifelong learning.
- iv. Promoting an environment conducive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

## **1.6 Institute Objectives**

- i. To offer engineering, technology, technical education and training thus developing a critical mass of highly trained technical manpower in engineering fields.
- ii. To formulate plans for the promotion, development and improvement of the quality of education/training being offered to students and other customers.
- iii. To promote and encourage staff and students innovativeness, initiative and readiness 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 programmes.
- v. To carry out any other assignments given by the government through the parent ministry.

## 1.7 Organization chart of Mbeya Institute of Science and Technology



## 1.8 Members of MIST Council

**Eng. Aloys Mwamanga (Chairperson)**  
Managing Director, PEMACO Ltd

**Eng. Asantiel Elias (Vice Chairperson)**  
Mbeya Cement Company

**Prof. Joseph Msambichaka (Secretary)**  
Principal, Mbeya Institute of Science and Technology (MIST)

**Ms. Monica Mbelle – Member**  
VETA- South West Zone

**Mr. Suleiman Mmwiry – Member**  
Director of Technical Education, Ministry of Education and Vocational Training

**Hon. Dr. Binilith Mahenge – Member**  
MP- Makete, Iringa

**Mrs. Margaret Mgaya – Member**  
Uyole Institute of Agriculture

**Dr. Lusajo Minga – Member**  
Head of Department of Computer, Mbeya Institute of Science and Technology

**Mr. Venance Mwakosya – Member**  
President, Students organization, Mbeya Institute of Science and Technology

**Mr. Ignatus Herman – Member**  
St. Joseph College of Engineering and Technology

**Prof. Evelyn Mbede**  
Director of Science, Ministry of Communication Science and Technology

## 1.9 Management Staff

### **Principal**

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

**Deputy Principal Academic, Research and Consultancy**

Dr. Noel Mbonde

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

**Deputy Principal Planning Finance and Administration**

Dr. A.N. Mtawa,

PhD Mech. Eng. (CPUT, SA), Msc Mech. Eng. (SOFIA, Bulgaria),

FTC Mech. Eng. (ATC)

**Chief Planning Officer**

Mr. Cornel Msemwa,

MBA (SUA), BSc. FST (SUA)

**Chief Accountant**

Mr. Shwaibu A. K. Shabani,

CPA (NBAA), PGD Finance Management (IFM)

**Chief Internal Auditor**

Mr. Deusdedit Sinda

CPA (NBAA), Diploma in accountancy (NBAA)

**Registrar**

Mr. Gwido Kayuki,

MSc. Chemistry (UDSM), BSc. Ed (UDSM)

**Estate Manager**

Mr. Allen Bonomali,

Msc - WRE (UDSM), BSc (Eng) - Civil, (UDSM),

**Legal Officer**

Ms. Fidelia Kyando,  
LLB (UDSM)

**Public Relations Officer**

Talasila Myula  
BA Mass Communication (SAUT)

**Senior Human Resources Officer**

Mrs. Devotha Msuya,  
BBA (Mzumbe)

**Dean of Students**

Mr. Kilomo Y. Mathayo,  
M.A (DS), BA (Ed.) (UDSM)

## **1.10 Heads of Academic Department**

**Architecture Department**

Mr. Idas M. Kiondo  
MSc. Theory of Arch, (Tongi – China) AD Arch. (Ardhi Inst)

**Civil Engineering Department**

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

**Continuing Education Department**

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

**Computer Department**

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

### **Electrical Engineering Department**

Mr. Zephania A. D. Chaula,

MSc. Elect. Eng. Donetsk State University (Ukraine), FTC (Dar Tech. College).

### **Science and Business Management Department**

Mr. Galus Kitapankwa,

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### **Mechanical Engineering Department**

Dr. Naiman Lemeirut,

PhD Agro Mech.(MSAU, Russia), MSc Mech. Eng. (MAEI, USSR).

### **Research and Publication Department**

Dr. Julius Rwakarambi,

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### **MIST Consultancy Bureau**

Eng. Joseph Mkisi,

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### **Industrial Liason Officer**

Mr. Andrew Kasasi,

M.Sc (UDSM), B.Sc. (Ed) (UDSM), Dip..Ed (Mkwawa)

### **Admission officer**

Theopista Mng'ong'o

BSc. (Ed.) (UDSM)

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Mr. Novatus N. Luanda,  
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**System Administrator**

Willy Mbata  
Advanced diploma in IT

**Medical Officer**

Mr. Selemani Libaba,  
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**Supplies Officer**

Japhet Kibona  
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## **2.0 ACADEMIC PROGRAM**

Mbeya Institute of Science and Technology is a government Institution accredited by the National Council for Technical Education (NACTE) to run and grant Ordinary Diploma and Bachelor Degree awards to Technology and Engineering graduates.

### **2.1 Ordinary Diploma Programmes**

- i. Ordinary Diploma in Architecture
- ii. Ordinary Diploma in Civil Engineering
- iii. Ordinary Diploma in Computer Engineering
- iv. Ordinary Diploma in Electrical & Electronic Engineering
- v. Ordinary Diploma in Mechanical Engineering
- vi. Ordinary Diploma of Business Administration
- vii. Ordinary Diploma in Laboratory Science and Technology

All Ordinary Diploma courses are offered in six semesters covered in three academic years.

## 2.2 Bachelor Degree Programmes

- i. Bachelor of Technology in Architecture - (B.Tech.Arch.)
- ii. Bachelor of Engineering in Civil - (B.Eng Civil)
- iii. Bachelor of Engineering in Mechanical - (B. Eng Mechanical)
- iv. Bachelor of Engineering in Computer - (B. Eng. Computer)
- v. Bachelor of Engineering in Electrical (B. Eng. Electrical)
- vi. Bachelor of Business Administration (BBA)

All Bachelor degree courses take duration of six semesters covered in three academic years. (For Ex-form six duration is eight semesters in four years)

## 3.0 ADMISSION REQUIREMENTS

### 3.1 Ordinary Diploma Programmes

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

#### 3.1.1 Direct Entry Schemes

In order to qualify for admissions under this scheme a candidate must meet the following conditions:

##### i. For Ordinary Diploma in Architectural Programme

Holder of Certificate of Secondary Education Examinations (CSEE) with a minimum pass of C grade in three of the following subjects; Mathematics, Physics/Engineering Science and Geography

OR

National Vocational Awards (NVA) level 3 or Trade Test I From recognized Vocational Training Centre with Certificate of Secondary Education having at least “D “pass in Physics, Chemistry and Mathematics (with access Course)

##### ii. For Ordinary Diploma in Engineering Programmes

Holder of Certificate of Secondary Education Examinations (CSEE) with a minimum pass of C grade in three of the following subjects;

Mathematics, Physics/Engineering Science and Chemistry

OR

National Vocational Awards (NVA) level 3 or Trade Test I From recognized Vocational Training Centre with Certificate of Secondary Education having at least “D “pass in Physics, Chemistry and Mathematics (with access Course)

**iii. For Ordinary Diploma in Laboratory Science and Technology Programmes**

Holder of Certificate of Secondary Education Examinations (CSEE) with a minimum pass of C grade in three of the following subjects; Mathematics, Physics/Engineering Science and Chemistry or Biology

OR

National Vocational Awards (NVA) level 3 or Trade Test I From recognized Vocational Training Centre with Certificate of Secondary Education having at least “D “pass in Physics, Chemistry and Mathematics (with access Course)

**iv. For Business Administration Course**

Holder of Certificate of Secondary Education Examinations (CSEE) with a minimum pass of C grade in three relevant subjects

OR

National Vocational Awards (NVA) level 3 or Trade Test I From recognized **Vocational Training Centre** with Certificate of Secondary Education.

**3.1.2 Indirect Entry Scheme**

**i. Mature Age Entry Scheme**

This scheme is meant for an aspirant whose age is 25 years and above. Aspirant may be admitted after sitting and passing an entry examination. In order to qualify for the examination a candidate must meet the following qualification:-

Holder of a Certificate of Secondary Education or a General Course in Engineering (GCE) with a minimum pass of D grade in Mathematics, Physics/Engineering Science and Chemistry (or Geography and Biology for Architecture and Laboratory Technology respectively). Possession of technical qualifications from a recognized College/Institution will be an added advantage.

Information on how to apply for mature age entry is always advertised in News papers in February or March every year. Aspirants can also visit the MIST Website at <http://www.mist.ac.tz>. Or enquire from the Registrar, Mbeya Institute of Science and Technology.

## **ii. Access Course for Ordinary Diploma Programme (Pre-entry course)**

- It mainly targets female aspirants as it aims at increasing female enrollment. (i.e. reducing the gender gap between male and female enrollment).
- Male applicants enrolled under this scheme do not qualify for Government sponsorship. Government sponsorship is limited to female candidates. (i.e Male successful candidates will be required to pay fees as privately sponsored).
- Candidates undergo upgrading access course for ten weeks. The subjects covered include Mathematics, Physics, and Communication skills, Mechanics, Technical Drawing and Computer Applications.
- At the end of the course, candidates sit for qualifying examinations. Candidates who score an average of 50% or above qualify for admission.

### **3.1.3 Entry requirements for Access Course**

- (i) Certificate of Secondary Education with minimum D grade in Mathematics, Physics/Engineering Science and Chemistry or Biology for Architecture, Engineering and Laboratory Technology Programmes.
- (ii) Certificate of Secondary Education with minimum “D” grade in Mathematics, Physics/Engineering Science and Chemistry or Biology for Business Administration Programmes.

- (iii) National Vocational Awards (NVA III) or Trade Test I from recognized Vocational Training Institution with a certificate of secondary education ('D' pass in physics and Mathematics).

### **3.2 Bachelor of Engineering and Architecture Programme**

#### **3.2.1 Minimum Entry Qualifications for Bachelor of Engineering Courses**

Candidates can join Bachelor of Engineering programmes through direct and indirect entry schemes.

#### **3.2.2 Direct Entry Scheme**

In order to qualify under direct entry scheme a candidate must meet the following qualifications/conditions.

- i. Possess Full Technician Certificate (FTC) with an average pass of Grade C at 3.0 points or above in the respective field.
- ii. Possess Ordinary Diploma Certificate (NTA Level 6) with an average pass of B grade (GPA 3.0) or higher.
- iii. Holder of Advanced Certificate of Secondary Education (ACSEE) with principal passes in Mathematics, Physics and Chemistry (or Geography and Economics for applicants for Architecture) Candidates applying for Bachelor of Engineering programme with ACSEE qualifications will pursue their studies for four years. The first year will cover the bridging course contents.

#### **3.2.3 Indirect Entry Scheme**

##### **Access Course (Pre- Entry Course)**

Candidates who do not meet the minimum requirements for direct entry still can join Mbeya Institute of Science and Technology (MIST) after attending and passing access course programme conducted for a period of ten weeks or through mature age entry scheme for those with age above 25 years.

### **3.3 Bachelor of Business Administration**

Candidates can join Bachelor of Business Administration programmes under either direct or indirect entry schemes.

### **3.1.2 Direct Entry Requirements**

Possession of

- i. Advanced Certificate of Secondary Education Examination (ACSEE) with at least 2 principal passes with a minimum score of 4.5 points, or its equivalent and a pass in Mathematics in C.S.E.E. Applicants with business related subjects have an added advantage.
- ii. An Ordinary Diploma in related field with an average of B grade (GPA of at least 3.0) or an equivalent qualification

### **3.1.3 Indirect entry requirements**

Applicants with lower qualifications will sit for an entry examination whose date and centre of administration will be communicated to those who qualify for it.

### **3.4 Institute Regulations**

3.4.1 Upon admission all first year students must obtain and read thoroughly the following regulations:

- Students' general welfares, conduct and disciplinary regulations.
- Conditions for government sponsorship
- Examination regulations
- Library regulations
- Industrial practical training regulations
- Constitution of Mbeya Institute of Science and Technology students' organization (MISTSO)
- Any other rules and regulation of the Institute.

Any of these regulations can be obtained from registrar, Dean of Students, or Heads of respective department. You can also access these regulations from the MIST website <http://www.mist.ac.tz>

3.4.2 No change of names by students will be accepted during registration and course of study at the Institute. Names appearing on original academic certificates shall be used.

3.4.3 No student will be allowed to change a course except in very exceptional circumstances. No student will be allowed to change course later than Friday of the second week after the beginning of the semester.

- 3.4.4 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 written approval from ones sponsor.
- 3.4.5 Students who have postponed studies shall be allowed to be away from studies for a maximum of two academic years if they are to be allowed for re-admission to the same year of study where they left. Otherwise students will be required to re-apply for admission into the first year.
- 3.4.6 Students discontinued from studies on the basis of examination irregularities will be considered for readmission after one academic year have elapsed. They will be supposed to reapply with other applications for re-admission into first year.
- 3.4.7 Students discontinued from studies because of failing to meet required examination passes to enter next level will be required to apply afresh with other applicants into first year.
- 3.4.8 If a student in 3.3.7 applies for the same academic programme must provide some evidence that prove that she/he will be able to excel into that particular programme.
- 3.4.9 The Institute does not provide sponsorship to students.

### **3.5 Admission Regulations**

- 3.5.1 Admission to the Institute is open to only bona fide students or persons who have been approved for admission on meeting the entry requirements. Such persons shall be required to go through registration formalities to confirm their status as bona fide students.
- 3.5.2 To be admitted in the first year, NTA Level 4 programme, in Mbeya Institute of Science and Technology one must have relevant certificates entitling him/her to attend the course he/she has applied for and duly approved by the relevant authority or have other qualifications considered equivalent by the Institute.
- 3.5.3 A student from a similar institution wishing to be admitted into the second year of study at Mbeya Institute of Science and Technology he/she must have passed examinations in relevant and equivalent programmes in

their previous year of study. Such a student must apply for admission at least 3 months before the beginning of the academic year. In special cases, the Deputy Principal Academic, Research and Consultancy may, in consultation with relevant authorities of Mbeya Institute of Science and Technology admit a student who, with acceptable reasons, fails to meet the 3 months deadline.

3.5.4 No student from another institution shall be admitted to the third or final year of study at Mbeya Institute of Science and Technology.

3.5.5 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.

3.5.6 Joining Instruction forms will be sent to selected candidates soon after selection.

### 3.5.7 Registration:

- All selected candidates have to be registered after they have paid registration fee **within the first two weeks from the first day of orientation week** (i.e. for first year students and first semester).
- Continuing student's deadline for registration is the **Friday of the second week after beginning of the semester**.

During registration every fresh entrant must produce the following documents:-

- (i) Joining Instruction sent to her/him.
- (ii) A duly filled in acceptance to abide by Institutes rules and regulations.
- (iii) A duly filled in medical examination form.
- (iv) All original receipts and photocopies of pay in slips of money paid to the Institute.
- (v) Original and photocopies of certificates transcripts, result slips and statements of results.
- (vi) An affidavit/birth certificate (original and photocopy)
- (vii) Three passport size photographs.

Registration of any candidate will not be done unless the above mentioned documents have been provided.

## 4.0 FEES AND BURSARIES

Student Pursuing Ordinary Diploma (NTA Level 4-6) programme may join the Institute under either Government sponsorship or private sponsorship. Students pursuing Bachelor of Engineering are encouraged to apply for scholarship loan from the Higher Education Students Loan Board (HESLB)

The fee structure for Government and privately sponsored students are as described in the following tables:

### 4.1 Fees Structure for Ordinary Diploma

#### 4.1.1 Government Sponsored Students

**Table 1: Fee structure for Ordinary Diploma government sponsored students**

S/N	Description	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year
1	Cost Sharing fee	130,000/=	130,000/=	130,000/=
2	Caution money	10,000/=	0.00	0.00
3	Hiring Institute's mattress	5,000/=	5,000/=	5,000/=
4	Hiring Institute's bed	2,000/=	2,000/=	2,000/=
5	Library membership fees	5,000/=	5,000/=	5,000/=
6	Examinations fee	50,000/=	50,000/=	50,000/=
7	Students' Organization fee	10,000/=	5,000/=	5,000/=
8	Registration fee	3,000/=	3,000/=	3,000/=
9	Student's Identity Card	3,000/=	0.00	0.00
10	Medical Contribution	10,000/=	10,000/=	10,000/=
	<b>Total</b>	<b>228,000/=</b>	<b>210,000/=</b>	<b>210,000/=</b>

#### 4.1.2 Privately Sponsored Students

**Table 2: Fee structure for Ordinary Diploma private sponsored students**

S/N	Description	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year
1	Tuition fee	700,000/=	700,000/=	700,000/=
2	Boarding costs	712,000/=	712,000/=	712,000/=
3	Caution money	10,000/=	0.00	0.00
4	Library membership fees	5,000/=	5,000/=	5,000/=
5	Examinations fee	50,000/=	50,000/=	50,000/=
6	Students' Organization fees	10,000/=	5,000/=	5,000/=
7	Registration fee	3,000/=	3,000/=	3,000/=
8	Student's Identity Card	3,000/=	0.00	0.00
9	Medical Contribution	10,000/=	10,000/=	10,000/=
	<b>Total</b>	<b>1,503,000/=</b>	<b>1,485,000/=</b>	<b>1,485,000/=</b>

#### 4.2 Fees Structure Under Bachelor Degree Programmes Full- Time Students

**Table 3: Costs Payable to the Institute by B.Eng. Students / Full Time Students**

SN	Description	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year
1	Tuition fee	900,000/=	900,000/=	900,000/=
2	Registration fee	5,000/=	5,000/=	5,000/=
3	Caution money	10,000/=	0.00/=	0.00/=
4	Medical Contribution	10,000/=	10,000/=	10,000/=
5	Student's Identity Card	3,000/=	0.00/=	0.00/=
6	Examination fee	50,000/=	50,000/=	50,000/=
7	Library Membership fee	5,000/=	5,000/=	5,000/=

SN	Description	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year
8	Student's Organization fee	10,000/=	5,000/=	5,000/=
9	Accommodation	71,400/=	71,400/=	71,400/=
10	Special Faculty Requirement	300,000/=	300,000/=	300,000/=
11	Final Project / Research	-	-	120,000/=
	<b>Total</b>	<b>1,364,400/=</b>	<b>1,346,400/=</b>	<b>1,466,400/=</b>

**Table 4: Costs payable direct to the Students by Sponsors (Tshs)**

SN	Description	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year
1	Industrial Practical Training (IPT)	700,000	700,000	-
2	Book / Stationery costs	120,000	120,000	120,000
3	Accommodation and Meals Costs	1,225,000	1,190,000	1,190,000
4	Transport fare to attend IPT	Variable	Variable	Variable

On the first day of each academic year, all private sponsored students are required to produce verifiable evidence of sponsorship by respective organizations, Parents/Guardians. Sponsors are required to pay a full tuition and other fees payable directly to the Institute before the students can be registered for studies.

However, payment on installment can be allowed, upon request supported by genuine reasons. No student shall be registered for the final examination at the end of the course or awarded any certificate by the Institute unless he/she has fully paid relevant dues.

#### **4.3 Mode of Payments**

Payment of fees and other charges must be made payable to Mbeya Institute of Science and Technology (MIST) and can be executed in the following methods.

Deposit at any NMB branch anywhere in Tanzania. The following is a guideline on how to pay your school fees and other charges.

vii. Visit any NMB. Branch anywhere in Tanzania.

- viii. Prepare a deposit slip, clearly printing (in BLOCK LETTERS) the following information:
- Account Name: **Mbeya Institute of Science and Technology**
  - Account Number: **6101100022**
  - Write an explanation for your payment on the form and print your full name: For example: STUDENT FEES FOR JUMA ALI.
- ix. Present your cash and the deposit slips to the cashier, and explain: “I would like to make a deposit to MIST fee account”
- x. Be sure to get a receipt, accurately summarizing your transaction and verifying the account number you have provided, and your name in full.
- xi. When you arrive at the Institute, present a copy of your receipt to the Accounts unit. You will receive receipt when you produce the pay-in slip. This receipt will ensure that you have paid the fee and thus entitled to the Institute’s services such as registration etc.

**Other Payment options include:**

- (a) Send POSTAL or EMS MONEY ORDERS to:

Mbeya Institute of Science and Technology

Att: Accounts Unit

P. O. Box 131, Mbeya.

- (b) **Bank Drafts in US Dollars** can be made by sponsors or students from foreign banks if the payment is pre-approved in writing by the Finance Department. The sponsor or student must clearly identify the sending bank by providing the required contact information (bank name, name of contact at bank, address, phone number, and e-mail address), and the payment must be confirmed with the sending bank in advance by the Finance Department. Any transaction charges assessed by clearing or depository banks must be charged against the draft or paid by the student.

## 5.0 EXAMINATIONS REGULATIONS

### 5.1 Definitions

**Institute:** Means Mbeya Institute of Science and Technology.

**Student:** means any person admitted for any course of study conducted by the Institute.

**Course:** means the totality of modules offered towards the award of certificate.

**Module:** means any independent unit(s) that makes up a course of study offered and has unique identification code

**Semester:** The time provided for which learning taking place at the Institute. One semester consists of seventeen (17) weeks of which fifteen (15) weeks are set for tuition and two (2) weeks are for examinations

**Continuous Assessment:** Is an assessment process that consists of quizzes, take-home assignments, case studies, class tests and field/project work report where applicable.

### 5.2 General Examination Regulations

5.2.1 Student performance shall be assessed continuously throughout the course. Such Continuous Assessment shall include at least three-timed test 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%. At least 50% of the credit for any award must be obtained from courses with controlled assessment.

5.2.2 Where distribution of marks for a module does not conform to regulation 5.2.1 the distribution of marks for the module shall be as stipulated in the curriculum for a given module.

5.2.3 No student shall be allowed to sit for the Semester Examination in modules requiring Continuous Assessment unless he/she has passed the prescribed Continuous Assessment.

- 5.2.4 Continuous Assessments report for all examinable modules shall be submitted to the Registrar's office one week before commencement of semester examination.
- 5.2.5 Continuous Assessment shall be open to students before sitting for a Semester Examination.
- 5.2.6 It shall be the duty of the Educator concerned 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.
- 5.2.7 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. Determination of pass or fail status shall be done at the end of each semester.
- 5.2.8 The pass mark in each module shall be 50%, 45%, 40% for NTA4-NTA5, NTA6 and NTA7-NTA10 respectively of the maximum mark allocated in the module.
- 5.2.9 A student who passes all the examinations for the semester shall be allowed to proceed to the next semester/ NTA level
- 5.2.10 A student who fails in one or more modules in an end of Semester Examination having passed at least 60% of total credit in that semester shall supplement the failed modules provided that the overall G.P.A is not less than 2.0.
- 5.2.11 A student who fails in one or more module(s) in a supplementary examination shall be allowed to carry forward the failed modules provided that the failed module(s) is not a pre requisite of the next module(s) and fulfills conditions for promotion.
- 5.2.12 A student who fails by at least 60% of total credit in the semester and/ or getting GPA less than 2 shall be discontinued from studies.
- 5.2.13 Supplementary Examinations will be held at least a week prior to the commencement of the following Semester. The highest mark awarded shall be the pass mark stipulated for the given level(i.e. 50%, 45%, 40% for NTA4-NTA5, NTA6 and NTA7-NTA10 respectively) and this will be used in the calculation of G.P.A for certification
- 5.2.14 A candidate, who fails in a module that is assessed by Continuous

Assessment only, shall sit for a Supplementary Examination. Such Examination shall take place at the time of the Institute Supplementary Examinations session. All other rules and regulations governing Supplementary Examinations will apply.

- 5.2.15 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 no module shall be carried forward more than once.
- 5.2.16 A maximum of two modules per Semester shall be allowed to be carried forward.
- 5.2.17 Any student who fails in one or more of the carried forward module(s) shall be allowed to re-sit the module(s) at his/her own cost in any of the succeeding supplementary examination sessions.
- 5.2.18 A student who fails in any carried forward module(s) which is a pre-requisite to a subsequent module(s) shall not be allowed to continue with the succeeding semester until he/she clears the failed module(s). Such a student shall be required to clear his/her module at his/her own time.
- 5.2.19 The highest mark awarded in any carried forward module shall be the minimum pass mark (i.e. 50%, 45%, 40% for NTA4-NTA5, NTA6 and NTA7-NTA10 respectively) and this will be used in the computation of the G.P.A for certification. The total marks acquired during the re-sit of examination shall not include continuous assessment.
- 5.2.20 Non-submission of examination(s), assignment(s), project(s) or absence from any assessment session may only be accepted due to valid or genuine reasons. Valid/genuine reason(s) that may be accepted are such as medical ground(s), acquired consent or officially granted permission by the institute.
- 5.2.21 A student failing to sit for supplementary/carried forward examination(s) without a genuine reason shall be discontinued from studies.
- 5.2.22 Modules for supplementary/carried forward shall be attempted in the subsequent semester/year only. Examinations for the modules carried forward shall be done at the normal examination period of the institute.
- 5.2.23 A student who does not sit for the semester examination, either in part

or in their entirety for reasons stipulated in 5.2.20 of these regulations, shall be eligible to sit for a special examination. Therefore, he/she shall be considered to be attempting the examination for the first time.

- 5.2.24 Special examinations shall be given to a student who has fulfilled item 5.2.3 of these regulations.
- 5.2.25 Failure to attend an examination session.
- 5.2.25.1 A student who for reasons stipulated in 5.2.20 of these regulations 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.
- 5.2.25.2 A student who sat for the special examination stated in 5.2.25.1 shall be given a grade obtained without prejudice to the previous grade "I".
- 5.2.26 A student whose examination results are nullified due to examination irregularity shall receive a Disqualification grade abbreviated "Q".
- 5.2.27 A student failing to appear for any examination/assessment without genuine reasons shall be considered to have absconded. Such a student will forfeit his/her chance, and he/she shall consequently be discontinued from studies.
- 5.2.28 A candidate who fails to sit for any continuous assessment(s) or fails to submit assignment(s) without valid reasons shall be awarded a zero mark.
- 5.2.29 In the case where the candidate has been discontinued/excluded from studies for failure to appear for examination/assessments (articles 5.2.21, 5.2.27) shall be denied from being reinstated or appearing to any examination/assessment to the Institute for a period not exceeding three years.
- 5.2.30 A student who falls sick during examination should inform his/her head of department immediately. If this results in inability to sit for some or all modules, a certified medical report from the MIST medical Doctor should be forwarded to his/her Head of Department not more than 2 days after the incidence.

### **5.3 Declaration of Results and Appeals process:**

- 5.3.1 Provisional results shall be announced fifteen 15 working days from the date of the last examination in that semester.
- 5.3.2 Final results will include Industrial Practical Training (IPT) assessment and shall be announced three weeks from the date of completion of the IPT.
- 5.3.3 All results shall show grades obtained in each module and shall state the criteria applied and recommendations of the Council Academic Committee in promoting each student to the succeeding semester/ NTA level.
- 5.3.4 Results for any candidate in a module(s) shall be withheld if:
  - i. He/she has not fulfilled some or all conditions for sitting for an examination.
  - ii. His/her results lack basic facts or data for computation of GPA towards declaration.
  - iii. He/she has a pending issues (such as not paid fees, undecided case related to examinations etc), that will affect the results.
- 5.3.5 A candidate whose results are withheld shall be allowed to continue with studies in subsequent semester provided that he/she has fulfilled other academic conditions for progression.
- 5.3.6 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
- 5.3.7 The Institute Council will approve the results before submission to National Council for Technical Education (NACTE).
- 5.3.8 The final classification of the diploma/degree shall be based on the performance of a candidate in all modules. The final score for the Diploma/Degree award shall be obtained from the average of the total score rounded to the nearest integer.
- 5.3.9 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 he/she has paid the fee prescribed by the Institute, which shall be revised from time to time.

- 5.3.10 Any student who is not satisfied with his/her results shall appeal in writing and submit within a period not exceeding 14 days from the date of release of the provisional results and address the appeal to:  
The Principal,  
Mbeya Institute of Science and Technology,  
P.O. Box 131,  
**MBEYA.**
- 5.3.11 A request for an appeal hearing shall be accompanied by non refundable fee, prescribed by the Institute, for a module(s) or for any other academic ground(s) of appeal made to the Institute. Such fee(s) shall be revised from time to time.
- 5.3.12 All appeals shall be guided by the Institute's guidelines and procedures for appeals. 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.
- 5.3.13 The Academic appeal Board shall, on the basis of the laid down guidelines and procedures, hear the appeal, investigate, discuss and make recommendations accordingly. In case of the necessity for re-marking, shall appoint a suitable expert(s) in the relevant module to be a third marker.
- 5.3.14 Third marker shall re-mark the respective script(s) using the same marking scheme used by the internal and external examiners.
- 5.3.15 The results from the third maker shall be tabled before the Academic Appeal Board for its approval before submitting to the Institutes Council.

#### **5.4 Grading System and Conditions for Award**

- 5.4.1 Grades for each module shall be assigned with reference to grades meanings and the range of scores for the various NTA levels as provided in table 5.

**Table 5: Ranges of scores for different grades (As per NACTE Examination Regulations)**

NTA Levels 4-5		NTA Levels 6		NTA Levels 7-10	
Grade	Score Range	Grade	Score Range	Grade	Score Range
A	80 - 100	A	75 - 100	A	70 -100
		B <sup>+</sup>	65 -74	B <sup>+</sup>	60 - 69
B	65 - 79	B	55- 64	B	50 - 59
C	50 - 64	C	45 -54	C	40 - 49
D	40 - 49	D	35 - 44	D	35 - 39
F	0 - 39	F	0 -34	F	0 - 34
I	<i>Incomplete</i>	I	<i>Incomplete</i>	I	<i>Incomplete</i>
Q	Disqualification	Q	Disqualification	Q	Disqualification

**Definitions of grades:**

A: Excellent

B<sup>+</sup>: Well Above Average (Very Good)

B: Above Average (Good)

C: Average (Satisfactory)

D: Below Average (Poor)

F: Failure

I: Incomplete

Q: Disqualification

**5.4.2 Classification of Awards:**

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

**For NTA levels 4 – 5**

A – 4

B – 3

C – 2

D – 1

F – 0

**For NTA levels 6 – 8**

A – 5

B+ – 4

B – 3

C – 2

D – 1

F – 0

The Grade Point Average (GPA) shall be computed from credits and grade weights and classified as shown in table 6.

**Table 6: Awards Classification**

NTA Levels 4 – 5		NTA Levels 6 – 8	
Class of Award	Cumulative GPA	Class of Award	Cumulative GPA
First Class	3.5 – 4.0	First Class with Honors	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
		Pass	2.0 – 2.6

### 5.4.3 Computation of the Grade Point Average (GPA):

#### *Semester Grade Points Average*

Semester (GPA) refers to the summation of all credit modules divided by the total number of credits taken by a student during a semester.

#### *Cumulative Grade Points Average*

Cum 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.

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

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

### 5.4.4 Conditions for awards:

A student shall qualify for the award if he/she has completed and passed all modules for the award and achieved a minimum cumulative GPA of 2.0.

Awards shall be given to a student who:

- (i) Has paid all required fees.
- (ii) Has fulfilled any terms and conditions established by the Institute.

## **5.5 Regulations Concerning Elective Modules**

- 5.5.1 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.
- 5.5.2 No student will be allowed to change the elective module, which he/she has registered for after the third week of that semester.
- 5.5.3 All elective modules shall be treated as any other modules.

## **5.6 Regulations Concerning Industrial Practical Training (IPT)**

- 5.6.1 For each Diploma/Degree programme there shall be Industrial Practical Training as stipulated in the curriculum.
- 5.6.2 Industrial Practical Training assessment shall count towards the final award.
- 5.6.3 A student who has been unable to complete the Industrial Practical Training for valid reasons, will be assigned an “I” grade and will be required to complete the training within a period specified by the Institute Academic Board.
- 5.6.4 A student who could not complete the Industrial Practical Training for no genuine reasons will be considered to have absconded and he/she shall be required to complete his/her training at his/her own expense.
- 5.6.5 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.
- 5.6.6 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.
- 5.6.7 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.
- 5.6.8 Industrial Practical Training reports shall be submitted to the Industrial Liaison Officer within two weeks of completion of the IPT.
- 5.6.9 A student who fails in the IPT will be required to re-do the training at his/her own expense.

## **5.7 Procedures and Conditions for Examinations**

### **5.7.1 Registration for Examinations**

5.7.1.1 A student shall be required to pay a prescribed fee 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.

5.7.1.2 A candidate shall sit for examination in a module if he/she has:

- i. Paid Tuition fee
- ii. Attained at least 80% attendance in a module
- iii. Satisfied section 5.2 of these regulations

### **5.7.2 Instructions to Candidates**

5.7.2.1 The timetable for examinations shall be available and accessible at least two weeks before the commencement of the examinations.

5.7.2.2 It shall be the duty of the candidate to consult the examination timetable for changes at least 24 hours ahead of time.

5.7.2.3 No candidate shall enter the examination room until he/she is allowed by the invigilator/supervisor.

5.7.2.4 Each candidate must produce his/her Student Identity Card to the invigilator for inspection before attempting any examination.

5.7.2.5 No candidate shall be admitted to the examination room more than half an hour after the start of the examination.

5.7.2.6 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 supervisor/ 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.

5.7.2.7 A candidate seating for an examination or test shall be guilty of an irregularity if:

- iii. He/she has in his/her possession any unauthorized written or printed document or memorandum, notes, sketch, map, diagram, any inadmissible equipment or article in the examination room.

- iv. 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.
- v. 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.

5.7.2.8 While an examination is in progress the following shall be observed:

- xxxi. A candidate shall not copy or attempt to copy from another candidate or engage in any similar activity.
- xxxii. When a candidate needs any assistance he/she may attract the attention of the invigilator by raising his/her hand.
- xxxiii. Smoking, drinking of beverages or doing other acts that may cause nuisance in the examination room is not allowed.

5.7.2.9 A candidate is required to bring all tools/equipment (i.e. calculator, ruler) required for examination. No candidate shall be allowed to borrow or lend any tools/equipment from another candidate.

5.7.2.10 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.

5.7.2.11 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.

5.7.2.12 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.

5.7.2.13 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.

5.7.2.14 No candidate shall take away any answer booklet(s), whether used or unused, from the Examination room.

5.7.2.15 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.

### **5.7.3 Regulations concerning the use of Calculator and Cellular phones.**

5.7.3.1 Programmable calculators or calculators with facilities for storing and retrieving text are not permitted in the examination room.

5.7.3.2 Portable computers, electronic organizers, cellular phones and other devices capable of communicating directly with similar devices are not permitted in the examination room.

5.7.3.3 Any candidate found using an unauthorized calculator in an examination will be reported for suspected cheating. The device will be immediately confiscated and the Institute will be under no obligation to issue the student with a replacement device for the remainder of the examination.

5.7.3.4 All rough work shall be done at the back of the answer booklet(s) and must be pencil cancelled to show that it is not part of the solutions/ answers.

5.7.3.5 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).

### **5.7.4 Instructions to Supervisors and Invigilators**

5.7.4.1 For each examination session there shall be a supervisor appointed by the Deputy Principal Academic, Research and Consultancy who shall also be the chief invigilator.

5.7.4.2 For each examination, there shall be an Invigilator appointed by the Registrar in consultations with Heads of Departments or other appropriate authority.

5.7.4.3 The Invigilator must report at the examination room at least quarter an hour before the commencement of the examination.

5.7.4.4 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.

- 5.7.4.5 The Invigilator may allow candidates to the examination room a quarter of an hour to time, and when seated, shall make sure that candidates:
  - a. Satisfy themselves that they are in possession of the correct paper.
  - b. Read carefully the rubric on the examination paper.
  - c. Commence work on the specified time.
- 5.7.4.6 The Invigilator shall not allow any candidate who reports half an hour after the commencement of the examination.
- 5.7.4.7 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.
- 5.7.4.8 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.
- 5.7.4.9 The Supervisor shall go around the examination room(s) as often as he/she deems necessary to ensure that there are no irregularities.
- 5.7.4.10 The Supervisor/Invigilator shall not engage himself/herself in any activity other than invigilation during the examination.
- 5.7.4.11 The Invigilator shall announce to candidates the time available to them from time to time and eventually must announce for examination to stop.
- 5.7.4.12 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.
- 5.7.4.13 It shall be the responsibility of the Invigilator to count all answer booklets against the attendance list, for submission to the Registrar or any authorized person. The supervisor/invigilator shall also return all unused answer booklets, question papers and other materials to the Registrar's office.

- 5.7.4.14 The Supervisor/ Invigilator shall fill and submit irregularity report form, (NACTE form Exam 19) on each examination, to the Registrar or other appropriate authority and shall indicate any instance of irregularity or examination offence or malpractice with details.
- 5.7.4.15 The Registrar shall immediately forward the examination irregularity report to the Institute Academic Board. Based on its review, the Board may nullify the results of that examination and discontinue the candidate; or if proved otherwise, the candidate shall be reinstated accordingly.
- 5.7.4.16 If a candidate is suspected of an examination irregularity the following procedure shall be followed:
- a. The invigilator shall approach the candidate immediately after suspicion /discovery.
  - b. All improper materials shall be confiscated and the Invigilator may allow the candidate to continue with examination so long as his/her presence does not cause any disturbance to others. His/ her results will be withheld pending to decision.
  - c. 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 candidates shall also be required by the Invigilator to sign as witnesses of the signing between the invigilator and the offender.
- 5.7.4.17 Failure or refusal to sign on the Invigilator's facts report (article 5.7.4.16c) is deemed to be contempt of the Institute 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.

## **5.8 Requirements for Award of a Graduation Certificate**

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

- Admission to the course, regular enrolment and attendance.
- Satisfactory performance in the required examinations.
- Discharge of all obligations owed to the institution including payment of fees, return of Institute property.

## **5.9 Interpretation and Review of Examination Regulations**

- 5.9.1 The Institute Council shall be the final authority for the interpretation of the examination regulations.

5.9.2 The examination regulations are subject to review from time to time as may be determined by the Institute Council.

## 5.10 Examination Offences and Penalties

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 table 7.

**Table 7: Examination Offences and Penalties:**

S/N	Offence	Penalty
1	Possession or access of unauthorized papers, books or notes that could be of assistance to a candidates.	<ul style="list-style-type: none"> <li>• Nullification of a candidate's examination results</li> <li>• Disqualification of a candidate from appearing in the examination which he is found guilty up to three years.</li> </ul>
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"> <li>• Nullification of a candidate's examination results.</li> <li>• Disqualification of a candidate from appearing in the examination which he is found guilty up to three years.</li> </ul>
3	Receiving or attempting to receive or give help to another candidate.	<ul style="list-style-type: none"> <li>• Nullification of a candidate's examination results.</li> <li>• Disqualification of a candidate from appearing in the examination which he is found guilty up to three years.</li> </ul>
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"> <li>• Nullification of candidate's examinations results.</li> <li>• Disqualification from appearing in the examination for a period of up to three years</li> </ul>
5	Consulting books, note books or papers or any other matter found with him while outside the examination room but during the examination hours before he has handed over his answer book to the invigilator or any other member of the supervisory staff.	<ul style="list-style-type: none"> <li>• Nullification of candidate's examinations results.</li> <li>• Disqualification from appearing in the examination for a period of up to three years.</li> </ul>

6	Writing on any other piece of paper, 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"> <li>• Nullification of candidate's examinations results.</li> <li>• Disqualification from appearing in Institute examination for a period of up to three years and liable to such other punishment as the Institute council may decide</li> </ul>
7	Passing on or attempting to pass on 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"> <li>• Nullification of candidate's examinations results.</li> <li>• Disqualification from appearing in Institute examinations for a period of up to three years</li> <li>• A candidate shall also be liable to such other punishment as the Council may decide.</li> </ul>
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"> <li>• Nullification of candidate's examinations results.</li> <li>• Disqualification from appearing in Institute examinations for a period of up to three years</li> <li>• A candidate shall also be liable to such other punishment as the Institute council may decide.</li> </ul>
9	Making previous arrangements to obtain help in connection with the question paper.	<ul style="list-style-type: none"> <li>• Disqualification from appearing in Institute examination for a period of up to three years.</li> <li>• Disqualification of the person with whom the candidate has made previous arrangement from appearing in council examination for a period up to three years.</li> <li>• A candidate shall also be liable to such other punishment as the council may decide</li> </ul>
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"> <li>• Nullification of candidate's examinations results.</li> <li>• Disqualification from appearing in Institute examination for a period of up to three years and liable to such other punishment as the Institute council may decide</li> </ul>

11	Writing outside the examination hall, an answer book or a continuation sheet for a candidate, which the latter smuggle into the examination hall or to replace the answer book of the candidate after the examination.	<ul style="list-style-type: none"> <li>• Nullification of candidate's examinations results.</li> <li>• Disqualification from appearing in Institute examination for a period of up to three years and liable to such other punishment as the Institute council may decide</li> </ul>
12	Misconduct or misbehaving towards the invigilator or any member of the supervisory staff.	<ul style="list-style-type: none"> <li>• Disqualification from appearing in Institute examinations for a period of up to three years. A candidate shall also be liable to such other punishment as may be decided by council.</li> </ul>
13	Impersonating a candidate.	<ul style="list-style-type: none"> <li>• Nullification of candidate's examinations results.</li> <li>• Disqualification from appearing in any Institute examination for a period of up to three years.</li> <li>• That person may be reported to the police.</li> <li>• The candidate for whom impersonation was attempted may also be disqualified from appearing in any examination for a period of up to three years.</li> </ul>
14	Obtaining admission to the examination on a false representation made by a candidate in his/her examination registration.	<ul style="list-style-type: none"> <li>• Nullification of candidate's examinations results.</li> <li>• Declare a candidate ineligible to appear in the examination.</li> </ul>
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"> <li>• Disqualification from appearing in Institute examination for a period of up to three years.</li> </ul>
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"> <li>• Nullification of candidate's examinations results.</li> <li>• Disqualification from appearing in any examination for a period of up to three years.</li> </ul>

17	Deliberately disclose his identity or making distinctive marks in his answer book for that purpose.	<ul style="list-style-type: none"> <li>• Nullification of candidate's examinations results and/or</li> <li>• Disqualification from appearing in any examination for a period of up to three years.</li> </ul>
18	Communicating or attempting to communicate directly or through a relative, guardian or friend with an examiner or with the MIST secretariat with the objective of influencing him in the award or marks.	<ul style="list-style-type: none"> <li>• Cancellation of examination results. and/or</li> <li>• Disqualification from appearing in any examination for a period of up to three years.</li> </ul>
19	Approaching or influencing directly or indirectly a member of the MIST secretariat or any Institute official regarding his cheating case.	<ul style="list-style-type: none"> <li>• Disqualification for one or more years in addition to the punishment imposed to him/her under the regulations for his offence of using unfair means.</li> </ul>
20	Dereliction of duty or misuse of position to the detriment of the smooth and fair conduct of examinations.	<ul style="list-style-type: none"> <li>• Relieve of duties by the competent authority.</li> </ul>
21	Failure to discharge confidential work by the person assigned to the satisfaction of the Institute council or misusing of position to the detriment of smooth and fair conduct of examinations.	<ul style="list-style-type: none"> <li>• Forfeiture of the whole or part of remuneration payable to him; and/or</li> <li>• Disqualification permanently or for a specific period from any duty of the Institute; and/or</li> <li>• Initiating disciplinary action against him; and/or</li> <li>• Initiating legal action against him.</li> </ul>

## 6.0 BRIEFS ON ACADEMIC DEPARTMENTS

The following are the current Academic Departments (with their sections) in the Institute.

### 6.1 Architecture Department

The Department of Architecture was founded in 1986 as an affiliate department of Civil Engineering Department with bias in Urban and Planning. Currently 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).
- iv. Higher Diploma of Technology in Architecture –NTA level 7 (2 years programme).
- v. Bachelor Degree of Technology in Architecture- NTA Level 8 (1 year programme).

#### 6.1.1 Major Areas of Specialization

- i. Architecture and Design.
- ii. Drafting and Model Production.
- iii. Applied Building services.
- iv. Building Maintenance and Renovation.
- v. Infrastructural Design and Services in Building.
- vi. Building Science, Technology and construction.
- vii. Architectural Design/Drawing.
- viii. Engineering Structure.
- ix. Environmental Science and Measurements.
- x. Professional Practice and Management.
- xi. Product Design and Manufacture.
- xii. Disaster Management.
- xiii. Construction economics and Planning.
- xiv. Housing and Settlement Planning.

- xv. Urban Design.
- xvi. Materials Sciences and Behaviors.
- xvii. Architectural History and Conservation.

### **6.1.2 Laboratories and Workshops in Architecture Department**

- i. Carpentry and joinery workshop.
- ii. Brickwork & masonry shed.
- iii. Painting shop.
- iv. Plumbing shop.
- v. Laboratory for testing building materials.
- vi. Welding and metal fabrication workshop.
- vii. Electrical (installations) workshop.

### **6.1.3 List of Staff under the Department of Architecture**

#### **Academic Staff**

##### **Assistant Lecturers**

**Mr. Idas M. Kiondo** - Master of Engineering. (Theory of Arch & History), AD Arch. (Ardhi Inst), Dip. Tech. Ed. - **Head of Department**

**Mr. Bushiri A. Mwambene** – M.Sc. UP (Ardhi Inst.), AD Eng. (Ardhi Inst).

**\*Mr. Bartholomew R. Kinemo** – M. Arch (ARU) PGD. Arch (Ardhi Institut.) ADV Arch (Ardhi).

**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

##### **Tutorial Assistants**

**\*Mr. Obadiah Mwaikokesya** – PGD (Arch) (Ardhi Inst.), Adv. Dip. Eng. (Ardhi Inst) FTC (DTC), Dip. Tech. Ed

**\*Mr. Malifa P. Sanga** – PGD Arch (Ardhi Inst.), Adv. Dip. Arch. (Ardhi Inst).

**Mr. Mbasa Segelela** – B Arch. (UDSM). – **Deputy Head of Department**

**Mr. Arnold Kashula** – B Arch. (UDSM).

**Mr. Israel Mayage** – B Arch. (UDSM).

**Mr. Juma Julius** – B.Arch. (UDSM), Diploma in Education (KLERUU)

\***Mr. Kassim A. Choga** – AD Arch. (Ardhi Inst).

\***Mr. Yonna Justin** – B.Sc BE (UDSM).

\***Mr. Emmanuel Liombo** – B.Arch. (UDSM).

**Mr. Benjamin Mashalla John** – B.Arch (ARU)

**Mr. Moses Moyo** – Bsc. Civil Eng (Structure)-UDSM

**Erick Mapunda** – B. Arch (UDSM)

### **Technical Staff**

\***Mr. Werner P. Hyera** – FTC (DIT), Dip. Tech. Ed.

**Christopher Almasi** – FTC (MTC)

### **Secretary**

**Sarah Kibode** – Diploma in secretarial Duties (Tabora PSC)

\*On study leave.

## **Course Modules in the Department of Architecture**

### **NTA LEVEL 4**

#### **Semester I**

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
GST04101	Advanced Mathematics I	5
GST04102	Physical science I	3
GST04103	Communication skills I	2
GST04104	Entrepreneurship and Development I	3
GST04105	Basic Computer Applications I	2
<b>Core Modules</b>		

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
ART04127	Construction Surveying	6
ART04126	Structural Mechanics	4
ART04125	Project Organization and Planning	4
ART04122	Basics of Architectural Design	8
ART04118	Brickwork and Masonry	4
ART04109	Building Services I	3
ART04106	Architectural Structural & Building Construction I	4
ART04102	Architectural Draughting	8
ART04111	Building Materials I	3
<b>Total</b>		<b>59</b>

## Semester II

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
GST04201	Advanced Mathematics II	5
GST04202	Physical science II	3
GST04203	Communication skills II	2
GST04204	Entrepreneurship and Development II	3
GST04205	Basic Computer Applications II	2
<b>Core Modules</b>		
ART04203	Computer Aided Design I	6
ART04226	Structural Mechanics	4
ART04220	Carpentry and Joinery	4
ART04218	Painting Technology	4
ART04209	Building services II	3
ART04206	Architectural structural & Building Construction II	
	Architectural Draughting II	4
ART04202	Building materials II	8
ART04211	Industrial Training Practical I	3
ITP04		10
<b>Total</b>		<b>61</b>

## NTA LEVEL 5

### Semester I

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
GST05101	Advanced Mathematics III	3
GST05102	Physical science III	3
GST05103	Communication skills III	2
GST05104	Entrepreneurship and Development III	2
GST05105	Basic Computer Applications III	2
<b>Core Modules</b>		
ART05103	Computer Aided Design II	4
ART05104	Principles of Architectural Design I	4
ART05101	Draughting Studio I	6
ART05105	Professional Practice & Management I	3
ART05106	Architectural Structures & Building Construction III	4
ART05107	History of Architecture	4
ART05108	Constructions Detailing I	3
ART05109	Building Services III	2
ART05110	Architectural Modeling	4
ART05111	Building Materials III	3
ART05114	Building Measurements & Refurbishment	5
ART05124	Building Regulations	5
<b>Total</b>		<b>59</b>

### Semester II

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
GST05201	Advanced Mathematics IV	3
GST05202	Physical science IV	3
GST05203	Communication skills IV	2
GST05204	Entrepreneurship and Development IV	2
GST05205	Basic Computer Applications IV	2
<b>Core Modules</b>		

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
ART05203	Computer Aided Design III	4
ART05204	Principles of Architectural Design I	4
ART05201	Draughting Studio II	6
ART05205	Professional Practice & Management II	3
ART05206	Architectural Structures & Building Construction IV	4
ART05207	History of Architecture	4
ART05208	Construction Detailing II	3
ART05209	Building Services IV	3
ART05211	Building Materials IV	3
ART05224	Structural Design II	5
IPT05	Industrial Practical Training	10
<b>Total</b>		<b>61</b>

## NTA LEVEL 6

### Semester I

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
GSD06101	Advanced Mathematics V	4
GSD06102	Physical Sciences V	2
GSD06103	Communication Skills V	2
GSD06104	Entrepreneurship and Development V	4
GSD06105	Basic Computer Applications V	2
<b>Core Modules</b>		

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
ARD06124	Structural Design III	3
ARD06116	Interior Design (Elective)	5
ARD06113	Specifications	5
ARD06112	Architectural Conservation (Elective)	5
ARD06104	Draughting Studio II	6
ARD06103	Computer Aided Design III	5
ARD06118	Photography	3
ARD06106	Architectural Structures & Building Construction III	4
ARD06108	Construction Detailing II	3
ARD06105	Professional Practice & Management III	3
ARD06104	Principles of Architectural Design	3
ARD06128	Project	2
<b>Total</b>		<b>61</b>

## Semester II

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
GSD06201	Advanced Mathematics VI	3
GSD06202	Physical Sciences VI	2
GSD06203	Communication Skills VI	1
GSD06204	Entrepreneurship and Development VI	4
GSD06205	Basic Computer Applications VI	2
<b>Core Modules</b>		
ARD06224	Structural Design II	3
ARD06204	Draughting Studio III	5
ARD06206	Architectural Structures & Building Construction II	4
ARD06213	Settlement Planning & Urban Design	5
ARD06208	Construction Detailing II	3
ARD06217	Landscape Design (Elective)	5
ARD06205	Professional Practice & Management II	3

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
ARD06204	Principles of Architectural Design II	3
ARD06225	Project	6
IPT06	Industrial Training	10
<b>Total</b>		<b>59</b>

## Fundamental Modules NTA LEVEL 7

### Semester I

<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
GSH7101	Linear Algebra and calculus	6
GSH7105	Communication skills	6
GSH7105	Computer Programming I	4
<b>Core Modules</b>		
ARH7101	Design theories I	4
ARH7105	Development of Architecture	4
ARH7107	Service & installation I	3
ARH7108	Building Structures I	3
ARH7109	Construction Detailing I	3
ARH7111	Design studio I	6
ARH7113	Building Renovation and Maintenance I	3
ARH7114	Building law and Regulations I	3
ARH7115	Construction Economics I	3
ARH7116	Urban Design I	3
ARH7119	Material Science I	5
ARH7110	Building Construction & Technology I	4
<b>Total</b>		<b>60</b>

## Semester II

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
GSH7202	Advanced Calculus	6
GSH7204	Management Skills I	6
GSH7205	Computer Programming II	4
<b>Core Modules</b>		
ARH7201	Design theories II	2
ARH7202	Advanced CAD I	2
ARH7206	Product manufacture Technology I	4
ARH7207	Service & installation II	2
ARH7208	Building Structures II	2
ARH7209	Construction Detailing II	3
ARH7211	Design studio II	6
ARH7217	Model making I	2
ARH7213	Building Renovation and Maintenance II	2
ARH7214	Building law and Regulations II	2
ARH7215	Construction Economics II	2
ARH7212	Material Science II	3
ARH7210	Building Construction & Technology II	2
ARHI72	Industrial Practical Training	10
<b>Total</b>		<b>60</b>

## Semester III

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
GSH7303	Differential Equations	6
GSH7304	Introduction to Management Skills I	6
<b>Core Modules</b>		

ARH7302	Advanced CAD II	3
ARH7303	Simulation Technology I	3
ARH7304	Environmental Control & Sustainability	3
ARH7306	Product manufacture Technology II	5
ARH7307	Service & installation III	3
ARH7309	Construction Detailing III	3
ARH7310	Building Construction & Technology III	3
ARH7311	Design studio III	6
ARH7312	Building Renovation and Maintenance III	3
ARH7217	Model Making	3
ARH7319	Research Methods	3
ARH7320	Project I	10
<b>Total</b>		<b>60</b>

#### Semester IV

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
GSH7404	Statistics & Numerical Analysis	6
GSH7106	Entrepreneurship Education	6
<b>Core Modules</b>		
ARH7402	Advanced CAD III	4
ARH7403	Simulation Technology II	4
ARH7404	Environmental Control & Sustainability II	3
ARH7406	Product manufacture Technology III	5
ARH7409	Building Law & Regulations III	3
ARH7420	Project II	12
ARH7411	Architectural Practice III	4
ARH7412	Building Construction & Technology IV	3
IPT07	Industrial Practical Training	10
<b>Total</b>		<b>60</b>

## NTA LEVEL 8: Bachelor of Technology in Architecture

### Semester I

Core Modules		
Module Code	Module Name	Credit
ARB8126	Dissertation part I	4
ARB8123	Structural Analysis and Design	6
ARB8124	Alternative energy design	6
ARB8107	Service & installation in building IV	4
ARB8106	Product manufacture technology IV	6
ARB8125	Disaster management II	6
ARB8122	Design Principles I	6
ARB8118	Architectural practice I	22
<b>Total</b>		<b>60</b>

### Semester II

Core Modules		
Module Code	Module Name	Credit
ARB8201	Design Principles II	4
ARB8207	Professional Practice II	4
ARB8208	Dissertation Part II	42
ARBI82	Industrial Practical Training	10
<b>Total</b>		<b>60</b>

## 6.2 Department of Civil Engineering

Civil Engineering department offers two Academic programmes (Ordinary Diploma in Engineering (ODE) NTA level 4-6 and Bachelor in Civil Engineering which is covered in two NTA levels i.e NTA 7 & NTA 8.

Student admitted in ODE for three years may exit in their first year and be awarded Basic Technician Certificate (NTA level 4). Those who exit in the second year are awarded Technician Certificate (NTA level 5. At

the completion of three years study a student is awarded an Ordinary Diploma in Civil Engineering. Students in NTA 7 (covered in two years) are awarded Higher Diploma in Civil Engineering. The third year which covers NTA 8 is for an award of Bachelor degree.

The programmes are as follows:

- iii. Basic Technician in Civil Engineering – NTA Level 4 (1 year programme).
- iv. Technician in Civil Engineering - NTA Level 5 (1 year programme).
- v. Ordinary Diploma in Civil Engineering –NTA Level 6 (1 year programme).
- vi. Higher Diploma in Civil Engineering – NTA level 7 (2 years programme).
- vii. Bachelor of Engineering in Civil- NTA Level 8 (1 year programme).

NB: Ex-form six attend one year bridging course before joining NTA 7.

### **6.2.1 Major Areas of Specialization**

- i. Structural Engineering.
- ii. Civil Engineering Materials and Geotechnic Engineering.
- iii. Construction Technology.
- iv. Surveying.
- v. Highway and Transportation Engineering.
- vi. Construction Management.
- vii. Water Resources Engineering (Hydraulics, Environmental and Sanitation).

### **6.2.2 Laboratories and Workshops in Civil Engineering Department**

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

### **6.2.3 List of Staff in the Civil Engineering Department**

### **6.2.4**

## Academic Staff

### Professors:

**Prof. Joseph Msambichaka** – PhD (Dortmund) MSc. (UDSM),  
B.Eng. (Mysore), - **Principal, Mbeya Institute of Science and  
Technology**

### Senior Lecturers:

*Vacant*

### Lecturers:

**Dr. Muya. S. Mgaza** – PhD. Geotechnic (China). Msc. Geotechnic  
Eng. (China), Bsc. Geology (UDSM),

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

### Assistant Lecturers

**Mr. Boniface Shayo** – MSc. Eng, PGD (UDSM), AD BEcon (Ardhi  
Inst.) – **Head of Department**

**Mr. John B. Kaliyo** – MSc Irrig. Eng. (Belgium), Btech – Civil Eng.  
(India) – **Deputy Head of Department**

**Eng. Joseph Mkisi** – MSc. Civil Eng. (Bulgaria),

**Mr. Gisla Kifanyi** – MSc. Eng. (UDSM), PGD (UDSM), BSc (Civil),

**\*Mr. George Lupakisyo** – MSc. Eng. Civil (UDSM), BSc (Civil).

**\*Mr. Yazidi A. Mwishwa** – MSC. Eng. (UDSM), PGD (UDSM), ADE  
(DIT)

**Mr. Ramadhani S. Tekka** – Msc. Eng (UDSM), Bsc Geomatics (ARU)

**\*Mr. Juvenary Joseph** – Msc. Constr. Econ. (), BSc (BE) (UCLAS)

### **Tutorial Assistants:**

- Mr. George Nyaisonga** – AD BEcon. (Ardhi Inst.)
- Mr. Ivor Ndimbo** – Bsc. Civil Eng. (UDSM)
- Mr. Cyriacus John** – Bsc (Eng) (UDSM)
- \*Mr. Hieromin Mboya** – ADE Civil. Eng. (DIT), FTC Civil (MIST)
- \*Mr. Joseph Mnkeni** – ADE Civil Eng. (DIT)
- \*Mrs Mwajuma Hussein** – MSc (Civil Highway Eng. UDSM; ADE Civil. (DIT) FTC Archt. (MIST)
- \*Mr. Godwin Kabungo** – ADE Civil (MIST); FTC Civil (DIT)
- Mr. Mathew Gwao** – BSc. LSurv. (UCLAS)
- \*Mr. Duwa Hamisi** – BSc. Civil Eng. (UDSM)
- \*Mr. Fadhili Mwakimi** – ADE Civil (MIST); FTC Civil-(MIST)
- Mr. George Lyimo** – BSc. Civil Eng. (UDSM)
- \*Mr. Omari Shegwando** – BSc. Civil Eng. (UDSM)
- Mr. Herfrid John** – ADE Civil (MIST); FTC Civil (MIST)
- Mr. Leiya Peter** – BSc. LSurv. (UCLAS)
- \*Mr. Martin Swila** – BSc (Eng.), (UDSM)
- Mr. Abon Malisa** – Bsc. Civil Eng. (UDSM)
- Mr. Hashim Hamisi** – Bsc. Civil Eng. (UDSM)

### **Technical Staff**

- Mr. Eliya Justus** – FTC Civil (DIT)
- \*Mr. Venant Mwandupe** – FTC Civil (TCA)
- Mr. Moses Mazengo** – FTC Civil (TCA)
- \*Mr. Valentino Chaffu** – FTC Civil (MIST)
- \*Mr. Godfrey Mbungula** – FTC Highway (DIT)
- Mr. Samwel Kihogo** – ODE (MIST)

## Artisans

Mr. Joseph Gesu – Technician Auxiliary II

Mr. John Mwakambonja – Technician Auxiliary I

Mr. Anselim B. Raphael – Technician Auxiliary II

## Secretary

Shukuru Sanga – Dip Secretarial Studies (Shukurani College)

\* On study leave

### 6.2.4 Course Modules in Civil Engineering Department

#### NTA LEVEL 4: Basic Technician Certificate in Civil Engineering

#### Semester I

Fundamental Modules		
Module Code	Module Name	Credits
GST 04101	Advanced Mathematics I	5
GST 04102	Physical Science I	3
GST 04103	Communication skills I	2
GST 04104	Entrepreneurship and Development I	3
GST 04105	Basic Computer Application I	2
Core Modules		
CET 04104	Civil Engineering Material I	6
CET 04103	Soil Mechanics	6
CET 04102	Engineering Drawing	9
CET 04105	Construction Technology I	12
CET 04107	Building Construction	9
<b>Total</b>		<b>57</b>

## Semester II

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credits</b>
GST 04201	Advanced Mathematics II	5
GST 04202	Physical Science II	3
GST 04203	Communication skills II	2
GST 04204	Entrepreneurship and Development II	3
GST 04205	Basic Computer application II	2
<b>Core Modules</b>		
CET 04213	Estimating and Costing	3
CET 04208	Structural Mechanics	3
CET 04212	Civil Engineering Materials II	6
CET 04206	Construction Technology II	6
CET 04211	Building Construction II (Maintenance)	4
CET 04210	Road Maintenance	4
CET 04201	Land Surveying	6
CET 04209	Road Construction	6
	Industrial Practical Training (IPT)	10
<b>Total</b>		<b>63</b>

## NTA L5: Technician Certificate in Civil Engineering Semester I

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credits</b>
GST 05101	Advanced Mathematics III	3
GST 05102	Physical Science III	3
GST 05103	Communication skills III	2
GST 05104	Entrepreneurship and Development III	2
GST 05105	Basic Computer application III	2
<b>Core Modules</b>		
CET 05108	Structural Mechanics	6
CET 05104	Civil Engineering Materials-I (Theory)	3
CET 05103	Soil Mechanics	6

CET 05112	Civil Engineering Materials-II (Practical)	9
CET 05102	Engineering Drawing	6
CET 05109	Road Design and Construction	6
CET 05107	Building Construction I	6
<b>Total</b>		<b>54</b>

## Semester II

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credits</b>
GST 05201	Advanced Mathematics IV	3
GST 05202	Physical Science IV	3
GST 05203	Communication skills IV	2
GST 05204	Entrepreneurship and Development IV	2
GST 05205	Basic Computer applications IV	2
<b>Core Modules 12</b>		
CET 05213	Reinforced Cement Concrete Design	9
CET 05214	Workshop practice	8
CET 05215	Quantity Surveying	6
CET 05210	Road Maintenance	3
CET 05211	Building Construction II	3
CET 05216	Construction Management	6
CET 05224	Water Supply and Sanitation	3
CET 05201	Land Surveying	6
	Industrial Practical Training	10
<b>Total</b>		<b>66</b>

## NTA LEVEL 6 Ordinary Diploma in Civil Engineering

### Semester I

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credits</b>
GSD 06101	Advanced Mathematics V	4
GSD 06102	Physical Science V	2
GSD 06103	Communication skills V	2
GSD 06104	Entrepreneurship V	4

GSD 06105	Basic Computer applications V	2
<b>Core Modules</b>		
CED 06107	Building Construction I	6
CED 061024	Water Supply and Sanitation I	6
CED 061025	Hydraulics and Fluid Mechanics I	6
CED 061019	Reinforced cement concrete design I	6
CED 061022	Soil Mechanics and Foundation	6
CED 061016	Construction Management I	3
CED 061023	Structural Timber Design	6
P06	Project	8
<b>Total</b>		<b>61</b>

## Semester II

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credits</b>
GST 06201	Advanced Mathematics VI	3
GST 06202	Physical Science VI	2
GST 06203	Communication skills VI	1
GST 06204	Entrepreneurship and Development VI	4
GST 06205	Basic Computer application VI	2
<b>Core Modules</b>		
CED 06207	Building Construction II	6
CED 06222	Water Supply and Sanitation II	6
CED 06225	Hydraulics and Fluid Mechanics II	6
CED 06219	Reinforced cement concrete design II	6
CED 06226	Construction Materials	3
CED 06216	Construction Management II	3
CED 06221	Structural Steel Design	6
P06	Project	9
IPT 06	Industrial Practical Training	10
<b>Total</b>		<b>67</b>

# NTA LEVEL 7 Higher Diploma in Civil Engineering

## Semester I

Fundamental Modules		
Module Code	Module Name	Credit
GSH 7101	Linear Algebra and Calculus	6
GSH 7105	Communication Skills	4
COH 7102	Data Structure Computer Programming	6
Core Modules		
CEH 7101	Engineering Survey-I	9
CEH 7102	Construction Technology	6
CEH 7103	Fluid Mechanics	9
CEH 7104	Civil Engineering Materials I	6
CEH 7105	Mechanics of Structures	4
CEH 7106	Engineering Geology	4
CEH 7107	Concrete Technology	6
<b>Total</b>		<b>60</b>

## Semester II

Fundamental Modules		
Module Code	Module Name	Credit
GSH 7202	Advanced Calculus	6
COH 7402	Object Oriented Programming	6
Core Modules		
CEH 7208	Engineering Survey II	9
CEH 7209	Fluid Mechanics and Hydraulics	9
CEH 7210	Building Planning and Drawing	6
CEH 7211	Structural Analysis I	4
CEH 7212	Civil Engineering Materials II	3
CEH 7213	Soil Mechanics	9
CEH 7214	Engineering Hydrology	4
CEH IPT 01	Industrial Practical Training	10
<b>Total</b>		<b>66</b>

### Semester III

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
GSH 7303	Differential Equations	6
<b>Core Modules</b>		
CEH 7315	Quantity Survey I	6
CEH 7316	Structural Analysis II	6
CEH 7317	Geometric Design and Traffic Engineering	9
CEH 7318	Reinforced Concrete Design & Detailing-I	9
CEH 7319	Foundation Engineering	9
CEH 7320	Highway Engineering Materials	6
<b>Total</b>		<b>51</b>

### Semester IV

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
GSH 7404	Statistics and Numerical Analysis	6
GSH 7406	Entrepreneurship Education I	6
<b>Core Modules</b>		
CEH 7422	Quantity Surveying II	6
CEH 7423	Reinforced Concrete Design & Detailing-II	9
CEH 7424	Construction Management	6
CEH 7425	Water Supply Engineering	6
CEH 7426	Contract Planning and Administration	4
CEH 7427	Pavement Design and Construction	9
CEH 7428	Research Methodology	4
CEH IPT 02	Industrial Practical Training	10
<b>Total</b>		<b>66</b>

## NTA LEVEL 8 Bachelor of Engineering in Civil Engineering

### Semester I

<b>Core Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
CEB 8128	Engineering Economics	9
CEB 8129	Structural Steel Design	6
CEB 8130	Waste Water Management	6
CEB 8131	Pavement Maintenance	3
CEB 8132	Construction of Multi-Storey Structures	6
CEB 8136	Building Services	6
CEB P 01	Project 1	18
<b>Total</b>		<b>54</b>
<b>Elective Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
CEB 8133	Pre-stressed Concrete Design	6
CEB 8134	Irrigation Engineering	6
CEB 8135	Bridge Design and Construction	6
<b>Total</b>		<b>18</b>

### Semester II

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
GSB 8201	Entrepreneurship Education II	6
<b>Core Modules</b>		
CEB 8237	Design of Masonry and Retaining Structures	6
CEB 8238	Structural Timber Design	6
CEB 8239	Solid Waste Management	6
CEB 8240	Industrial Building Construction	6
CEB 8242	Hydraulic Structures	6
CEB P 02	Project II	18
<b>Total</b>		<b>54</b>

<b>Elective Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
CEB 8241	Transportation Engineering	6
CEB 8243	Water Resources Management	6
<b>Total</b>		<b>12</b>

### **6.3 Department of Computer Engineering**

The department of Computer Engineering was founded in 1994 and offers Ordinary Diploma programmes in Computer Engineering NTA Level 4 to 6. Apart from offering computer professional courses, the department provides support to other academic department in teaching computer applications and computer aided design modules.

Students are admitted in Ordinary Diploma in Computer Engineering may exit in their first year and be awarded a Basic Technician Certificate (NTA level 4). Those who exit in the second year are awarded Technician Certificate (NTA level 5). Successive completion of three years study programme, a student is awarded an Ordinary Diploma in Computer Engineering. Currently the department offers only one study programme namely Ordinary Diploma in Computer Engineering.

#### **6.3.1 Major Areas of Specialization**

- i. Computer Engineering
- ii. Computer Science
- iii. Computer Networking
- iv. Software Engineering
- v. Computer Organisation
- vi. Computer Architecture
- vii. Information Technology

#### **6.3.2 Laboratories and Workshops in Computer Department**

- i. Computer Laboratory 1
- ii. Computer Laboratory 2
- iii. Computer Workshop 1

### 6.3.3 The List of staff under the Computer Department

#### Academic Staff

##### Lecturers

- Dr. Lusajo M. Minga** – PhD Mngt. Sc. & Eng. (HIT, China), M.Sc. Econ. (DPI, USSR) FTC (ATC), Teach. Cert. (Morogoro). – **Head of Department**
- Dr. Julius Rwakarambi** – PhD Comp. Sc. (SJTU, China), MSc. Comp. Sc. (SHU, China) BSc. Ed. (UDSM)

##### Tutorial Assistants

- \*Mr. Rainer Mwashu** – Adv. Diploma in Inform. Techno. (IFM)
- \*Mr. Stanley Leonard** – BSc Comp. Eng.(DIT)
- \*Mr. Godfrey Kayombo** – BSc Comp. Eng. (DIT)
- Mr. Pascal Yamakili** – Adv. Diploma in Inform. Techno. (IAA)  
- **Deputy Head of Department**
- Mr. Edwin P. Nchia** – Adv. Diploma in Inform. Techno. (IFM)
- Mr. Sadiki L. Kusyama** – BEng Comp. Eng. (DIT)
- Mr. Lowenstern Rugumamu** – BIT (KIU – Uganda)
- Mr. Nicholas Mrindoko** – BEng Comp. Eng. (DIT)
- Mr. Elibahati Akyoo** – BEng Comp. Eng. (DIT)
- Mr. Noel Chintelele** – BEng Comp. Eng. (DIT)
- Mr. Shadrack Daudi** – Higher Diploma in Comp.Eng. (DIT)
- Mr. Ally Sikolo** – BEng Comp. Eng. (DIT)
- Ms. Christina Mwabeza** – BEng Comp. Eng. (DIT)
- Mr. Godfrey Kyambile** – BSc Comp. (ST. Joseph)
- Mr. Richard Rajabu** – BSc Computer (UDSM)

#### Technical Staff

- \*Mr. Enlai Watson** – BSc. Comp. Eng (DIT)
- Mr. Aggrey T Kyongosya**– Cert. Comp. (UCC- Mbeya)

## Artisans

Mr. Riziki Pangahela – B. Cert. Comp. Graphics (VETA)

## Secretary

Eliza Daniel – Dipl. in Secretarial Studies. (Shukrani)

\* On study leave

### 6.3.4 Fundamental and Core modules in the Computer Engineering department

#### NTA LEVEL 4 Basic Technician Certificate in Computer Engineering

#### Semester I

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credits</b>
GST 04103	Communication Skills I	2
GST 04101	Advanced Mathematics I	5
GST 04102	Physical Sciences I	3
GST 04104	Entrepreneurship and Development I	3
<b>Core Modules</b>		
COT 04101	Computer Systems Maintenance and Repair I	15
COT 04102	Computer Network I	14
COT 04105	Computer Application I	3
COT 01301	Basics of Electrical Engineering I	7
MET 04105	Workshop Technology	6
<b>Total</b>		<b>58</b>

#### Semester II

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
COT 04201	Communication Skills II	2
COT 04202	Advanced Mathematics II	5
GST 04205	Physical Science II	3
MET 04105	Entrepreneurship and Development II	3

<b>Core Modules</b>		
COT 04201	Computer Systems Maintenance and Repair II	15
COT 04202	Computer Networks II	14
GST 04205	Computer Application II	3
MET 04105	Basics of Electrical Engineering II	7
COT 04203	Industrial Practical Training	10
<b>Total</b>		<b>62</b>

## **NTA LEVEL 5 Basic Technician Certificate in Computer Engineering**

### **Semester I**

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
GST 05101	Advanced Mathematics III	3
GST 05102	Physical Science III	3
GST 05103	Communication Skills III	2
GST 05104	Entrepreneurship and Development III	2
<b>Core Modules</b>		
COT05101	Computer Programming	7
COT05102	Operating Systems	7
COT05103	Measurements and Instrumentation	6
COT05104	Digital Electronics	6
COT05105	Data Communications	6
COT05106	Basic Electronics	6
COT05101	Engineering Drawing	6
<b>Total</b>		<b>54</b>

### **Semester II**

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credits</b>
GST 05201	Advanced Mathematics IV	3
GST 05202	Physical Science IV	3
GST 05203	Communication Skills IV	2

GST 05204	Entrepreneurship and Development IV	2
<b>Core Modules</b>		
COT 05201	Data Structure and File Handling	6
COT 05202	Computer Peripherals	
COT 05206	Maintenance and Repair	6
COT 05204	Microprocessor Technology	7
COT 05205	Sequential Circuits	6
COT 05207	Internetworking	7
COT 05208	Electronic Circuits	6
COT 05408	Electrical Installation and Safety Regulations	
	Circuits	6
IPT05.	Industrial Practical Training	10
<b>Total</b>		<b>64</b>

## NTA LELVEL 6      Ordinary Diplomas in Computer Engineering

### Semester I

<b>Fundamental Modules</b>		
Module Code	Module Name	Credits
GSD 06101	Advanced Mathematics V	4
GSD 06102	Physical Science V	2
GSD 06103	Communication Skills V	2
GSD 06104	Entrepreneurship and Development V	2
<b>Core Modules</b>		
COD 06501	Introduction to Software Engineering	9
COD 06505	Introduction to Multimedia	8
COD 06502	Introduction to system analysis and design	8
COD 06504	Introduction to automation and Control	9
COD 06503	Network Management	8
COD 06506	Advance Electronics	8
COD 06507	Project 1	10
<b>Total</b>		<b>70</b>

## Semester II

Fundamental Modules		
Module Code	Module Name	Credits
GSD 06201	Advanced Mathematics VI	4
GSD 06202	Physical Science VI	2
GSD 06203	Communication Skills VI	1
GSD 06204	Entrepreneurship and Development VI	2
Core Modules		
COD 06601	Website Design and Hosting	10
COD 06602	Signal and data Processing circuits	4
COD 06603	Multimedia Application Production	8
COD 06604	Industrial Automation System	8
COD 06608	Project II	10
<b>Total</b>		<b>49</b>

### 6.4 Department of Electrical and Electronic Engineering

Electrical Engineering department offers three Academic programmes (Ordinary Diploma in Engineering (ODE), Bachelor of Engineering in Electrical and Advanced diploma in Electrical Engineering.

Student admitted in ODE for three years may exit in their first year and be awarded Basic Technician Certificate (NTA level 4). Those who exit in the second year are awarded Technician Certificate (NTA level 5. At the completion of three years study a student is awarded an Ordinary Diploma in Electrical Engineering.

The Advanced Diploma in Electrical Engineering programme is a three year programme and candidates are awarded an Advanced Diploma in Electrical Engineering after successive completion of the course which takes a duration of three years. MIST is phased out the advanced diploma study programme and this has been replaced by the Bachelor of Engineering programme started in December 2008. Currently the department offers the following programmes:

- i. Basic Technician in Electrical Engineering – NTA Level 4 (1 year programme).
- ii. Technician in Electrical Engineering - NTA Level 5 (1 year programme).

- iii. Ordinary Diploma in Electrical Engineering – NTA Level 6 (1 year programme).
- iv. Higher Diploma in Electrical Engineering – NTA level 7 (2 years programme).
- v. Bachelor of Engineering in Electrical - NTA Level 8 (1 year programme).

#### 6.4.1 Sections in Electrical Engineering Department

- i. Electrical Power
- ii. Electronics (Power Electronics)
- iii. Measurement, Instrumentation and Control
- iv. Electrical Machines

#### 6.4.2 Course Modules in the Department of Electrical and Electronics Engineering

### NTA LEVEL 4 Basic Technician Certificate in Electrical Engineering

#### Semester I

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Title</b>	<b>Credits</b>
GSD 04101	Advanced Mathematics I	5
GSD 04102	Physical Science I	3
GSD 04103	Communication skills I	2
GSD 04104	Entrepreneurship and Development I	3
GSD 04105	Basic Computer applications I	2
<b>Core Modules</b>		
EET 04101	Basic of Electrical Engineering I	7
EET 04102	Electrical installation Safety and Maintenance I	6
EET 04103	Electrical Materials I	4
EET 04104	Workshop Technology and Practice I	9
EET 04105	Technical Drawing I	5
EET 04106	Electrical Measurements I	5
EET 04107	Electronics I	4
<b>Total</b>		<b>55</b>

## Semester II

Fundamental Modules		
Module Code	Module Name	Credits
GST 04201	Advanced Mathematics II	5
GST 04202	Physical Science II	3
GST 04203	Communication skills II	2
GST 04204	Entrepreneurship and Development II	3
GST 04205	Basic Computer applications II	2
Core Modules		
EET 04201	Basic of Electrical Engineering II	7
EET 04202	Electrical installation Safety and Maintenance II	6
EET 04203	Electrical Materials II	4
EET 04204	Workshop Technology and Practice II	9
EET 04205	Technical Drawing II	5
EET 04206	Electrical Measurements II	5
EET 04207	Electronics II	4
ITG 04	Industrial Practical Training I	10
<b>Total</b>		<b>65</b>

## NTA LEVEL 5 Technician Certificate in Electrical and Electronics Engineering.

### Semester I

Fundamental Modules		
Module Code	Module Name	Credits
GST 05101	Advanced Mathematics III	3
GST 05102	Physical Science III	3
GST 05103	Communication skills III	2
GST 05104	Entrepreneurship and Development III	2
GST 05105	Basic Computer applications III	2
Core Modules		
EET 05101	Mat lab	2
EET 05102	Electronics III	3
EET 05103	Electrical Installations I	6
EET 05104	Electrical Maintenance	6

EET 05105	Fundamentals of Automation I	6
EET 05106	Power Plant Engineering I	4
EET 05107	DC Machine I	6
EET 05108	Power Utilization I	6
EET 05109	Workshop Practice	4
<b>Total</b>		<b>55</b>

## Semester II

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credits</b>
GST 05201	Advanced Mathematics IV	3
GST 05202	Physical Science IV	3
GST 05203	Communication skills IV	2
GST 05204	Entrepreneurship and Development IV	2
GST 05205	Basic Computer applications IV	2
<b>Core Modules</b>		
EET 05201	AutoCAD	2
EET 05202	Power Electronics	5
EET 05203	Electrical Equipment	4
EET 05204	Electrical Power Transmission and Distribution I	6
EET 05205	Fundamentals of automation II	5
EET 05206	AC Machines (Transformers) I	6
EET 05207	DC Machines II	6
EET 05208	Power Utilization II	4
EET 05209	Workshop Practice II	4
ITG 05	Industrial Practical Training II	10
<b>Total</b>		<b>64</b>

## NTA LEVEL 6 Ordinary Diploma in Electrical and Electronics Engineering

### Semester I

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credits</b>
GSD 06101	Advanced Mathematics V	4
GSD 06102	Physical Science V	2

GSD 06103	Communication skills V	2
GSD 06104	Entrepreneurship and Development V	4
GSD 06105	Basic Computer applications V	2
<b>Core Modules</b>		
EED 06101	AC Machine II	6
EED 06102	Digital Electronics I	4
EED 06103	Electric Drives I	6
EED 06104	Electrical Installation II	4
EED 06105	Fundamentals of Automation III	4
EED 06106	Power Transmission & Distribution II	4
EED 06107	Motor Rewinding	5
EED 06108	Power Protection	4
EED 06109	Project I	4
<b>Total</b>		<b>55</b>

## Semester II

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credits</b>
GSD 06201	Advanced Mathematics VI	4
GSD 06202	Physical Science VI	2
GSD 06203	Communication skills VI	1
GSD 06204	Entrepreneurship and Development VI	4
GSD 06205	Basic Computer applications VI	2
<b>Core Modules</b>		
EED 06201	AC Machines III	6
EED 06202	Digital Electronics II	5
EED 06203	Electrical Drives II	6
EED 06205	Fundamentals of Automation IV	4
EED 06208	Power Protection II	5
EED 06209	Project II	4
EED 06210	Renewable Energy	5
EED 06211	Motor Rewinding	6
<b>Total</b>		<b>54</b>

## NTA LEVEL 7 Higher Diploma in Electrical and Electronics Engineering

### Semester I

Fundamental Modules		
Module Code	Module Name	Credit
GSH 7101	Linear Algebra and Calculus	6
GSH 7102	Communication Skills	6
<b>Core modules</b>		
EEH 7101	Electrical network analysis I	6
EEH 7102	Engineering drawing I	6
EEH 7103	Electrical Measurement and Instrumentation.	6
EEH 7104	Analogue electronics I	6
EEH 7105	Engineering electromagnetic I	6
EEH 7106	Mechanics of machines I	5
EEH 7107	Power Plant	6
EEH 7108	Introduction to engineering software	5
<b>Total</b>		<b>58</b>

### Semester II

Fundamental Modules		
Module Code	Module Name	Credit
GSH 7202	Advanced Calculus	6
<b>Core modules</b>		
EEH 7201	Electrical network analysis II	6
EEH 7202	Engineering drawing II	6
EEH 7203	Electrical power transmission and distribution I	7
EEH 7204	Analogue electronics II	6
EEH 7205	Engineering electromagnetic II	6
EEH 7206	Mechanics of machines II	5
EEH 7207	Electrical engineering materials.	4
EEH 7208	Basics of computer systems engineering	3
ITH 7210	Industrial Practical Training I	10
<b>Total</b>		<b>59</b>

### Semester III

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
GSH 7301	Differential Equations	6
GSH 7302	Entrepreneurship Education for Engineers 1	6
<b>Core Module</b>		
EEH 7301	Electrical Machines I	7
EEH 7302	Control systems engineering I	6
EEH 7303	Electrical power transmission and distribution II	7
EEH 7304	<b>ELECTRICAL POWER SYSTEMS I</b>	6
EEH 7305	Power electronics I	6
EEH 7306	Digital Electronics I	6
EEH 7307	Computer programming	5
EEH 7308	Basics of analogue telecommunication	4
<b>Total</b>		<b>59</b>

### Semester IV

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credit</b>
GSH 7401	Statistics and Numerical Analysis	6
EEH 7407	Environmental Engineering	4
<b>Core Modules</b>		
EEH 7401	Electrical machines II	7
EEH 7402	Control systems engineering II	6
EEH 7403	Microprocessor	5
EEH 7404	Electrical Power Systems II	7
EEH 7405	Power electronics II	6
EEH 7406	Digital electronics II	6
EEH 7408	Basics of digital Telecommunication	4
ITH 7410	Industrial Practical Training II	10
<b>Total</b>		<b>61</b>

## NTA LEVEL 8: Bachelor of Engineering in Electrical and Electronics

### Semester I

Fundamental Modules		
Module Code	Module Name	Credit
EEB 8106	Engineering economics and management I	6
Core Modules		
EEB 8101	Electrical MACHine III	8
EEB 8102	Control system engineering III	9
EEB 8103	Electrical safety and maintenance	8
EEB 8104	Programmable logic controller	7
EEB 8105	Power electronics III	8
EEB 8107	Project I	14
<b>Total</b>		<b>60</b>

### Semester II

Fundamental Modules		
Module Code	Module Name	Credit
EEB 8206	Engineering economics and management II	6
EEB 8205	Laws for Engineers	6
Core Modules		
EEB 8201	Electrical drives	9
EEB 8202	Digital systems engineering	7
EEB 8203	High voltage Engineering	8
EEB 8204	Switchgear and Protection Engineering	8
EEB 8207	Project II	16
EEB OPT 01	Renewable Energy Technologies (elective)	6
<b>Total</b>		<b>60</b>

### **6.4.3 The Existing Laboratories and Workshops for Electrical Engineering Department**

- 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

### **6.4.4 The List of Staff in the Electrical Engineering Department**

#### **Assistant Lecturers**

**Mr. Zephania A.D. Chaula** – MSc. Elect. Eng. (Donetsk State University Ukraine), FTC Electrical (DTC). – **Head of Department**

**Mrs. Anlyilya G. Mwaikokesya** – MEM, PGD IT & Electron. (UDSM), MEM, PGD (UDSM), ADE Elect. Eng. FTC (DTC), Tech. Ed. (Morogoro). – **Deputy Head of Department**

**\*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 Poly-technical University-Russia); BSc Elect. Eng. (Russia); FTC in MEch. Eng. (ATC)

## **Tutorial Assistants:**

- \*Mr. Watson E. Yotham** – BSc. Elect. Eng. (UDSM), Tech. Ed. (Morogoro)
- \*Mr. Godwin Mnkeni** – ADE Elect. Eng. (DIT), Dip. Elect. Eng. (Kidatu), Tech. Ed. (Morogoro)
- \*Mr. Saidi Msherwa** – BSc. Elect Eng., (UDSM), Tech. Ed. (Morogoro).
- \*Mr. Owdean M. Suwi** – BSc. Elect Eng., (UDSM),
- \*Miss. Advera Mwijage** – BSc. Elect. Eng. (UDSM)
- Mr. Justine Mbilinyi** – BSc. Elect. Eng. (UDSM)
- Mr. Exaud Tweve** – ADE Elect. Eng. (DIT), FTC Elect. Eng. (MTC)
- Mr. Nicholas G. Moyo** – ADE (Elect. Eng. (DIT), FTC (ATC)
- \*Mr. John P. John** – B. Eng. Elect. (DIT), FTC (ATC)
- Mr. Alban Mahimbo** – B. Eng. Elect. (DIT), FTC (ATC)
- Mr. Sospeter Gabriel** – B. Eng. Elect. (DIT), FTC (ATC)
- Mr. Buchumi Manase** – B Eng Elect. (SJCET); FTC Elect. (MTC)
- Daniel A. Sinkonde** – B. Eng in Electronics & Communication Engineering (St. Joseph College of Engineering & Technology); FTC in Mechanical Eng. (MTC).
- Isaka J. Mwakitalima** – B.Eng in Electronics & Communication Engineering (St. Joseph College of Engineering & Technology); Diploma in Technical Education(Kleruu); FTC Electrical (ATC).

## **Instructor I**

- \*Mr. Hamisi K. Isomanga** – DTE (DTC)
- Mr. Shadrack A. Maganga** – DTE (Germany), Diploma in Refrigeration (Mbegani), Electrical Install. (IVETA), Electromeister (Germany), Diploma in

Customer Conselling Germany Industrial Electricity (NSI), Curriculum development Technic – CAPA TZ, Proficiency Certificate (INDIA).

Emanuel B. Mbogoma – BSc Electrical Engineering (UDSM)

### **Technical Staff**

\*Mr. Monte Kayoka – FTC Elect. Eng. (MTC)

Mr. Joseph Matwani – FTC Elect. Eng. (MTC)

Mr. Joseph Mwendwa – FTC Elect. Eng. (MTC)

A.N.P Millinga – FTC in Electronics & Telec. (DIT); Grade III in Indust. Electronics (VETA Tanga)

C.A. Masiganka – FTC in Elect. Engineering (DIT)

### **Secretary**

Miss. Rose Haule, – Dipl. in Secretarial Studies. (Grace College)

\*On study leave

## **6.5 Department of Science and Business Management**

The Science and Business Management (SBM) department formally known as General Studies (GS) Department offers to all other departments a wide spectrum of Science modules in Mathematics, Entrepreneurship and Development, Physical Sciences and Communication Skills. All modules are conducted in a semester system. Apart from providing support to other departments The SBM department also offers the following programs:

- i. Ordinary Diploma of Business Administration
- ii. Ordinary Diploma in Laboratory Technology
- iii. Bachelor of Business Administration

### **6.5.1 Objectives of the Science and Business Management**

Science and Business Management department conducts modules of general nature which cut across all technical departments. The Intention of the department is to train students to think effectively about the interconnection of technology and management. Emphasis is laid on learning the principles of problem solving leading to a technical

solution, addressing communication in a variety of settings, critical thinking and entrepreneurial skills.

### **6.5.2 List of Sections under Science and Business Management.**

- i. Entrepreneurship
- ii. Advanced Mathematics
- iii. Physical Sciences
- iv. General and Business Management Communications

### **6.5.3 List of Laboratories available for Science and Business Management Department**

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

### **6.5.4 List of Staff in the Department of Science and Business Management**

#### **Assistant Lecturers**

- Mr. Galus Kitapankwa**, – MEED (UDSM), BEd. Sc. (UDSM)  
**Head of Department**
- Mr. Vicent T. Kipene** – MBA (SUA), BSc. Agr. Ed (SUA), Dip. in Ed. (Monduli).
- Mr. Andrew S. Kasasi**, – MSc. (Phy.) (UDSM), BSc. Ed. (UDSM), Dip. in Ed.(Mkwawa)
- \*Mr. Asheri Mwidege** – MA Econ. BSc. Ed. (UDSM), Dip. in Ed. (Mkwawa)
- Mr. Evarist R. Mahallah** – MA Ed. BSc. Ed. (UDSM), Dip. in Ed. (Mkwawa)
- Mr. Said M. Msangi** – MBA (UDSM), BA (UDSM)
- Ms. Albentina Leonrd** – MBA (Finance & Banking) Mzumbe, BAED (UDSM)
- Ms. Lulu Luflenge**MA. Rural Develop. (SUA) – BSc Home Eco & Human Nutrition (SUA),
- Mrs. Ukendi Kingu** – MBA (UDSM), BSC (Food Science & Tech) SUA
- Mr. Joseph J. Lukumay** – MA Development Studies (UDSM); BSc (Ed)-UDSM

## **Tutorial Assistants**

<b>Ms. Violet Godwin</b>	–	BSc. Ed. (UDSM)
<b>Mr. Gerald V. Kyando</b>	–	BCom. (OUT), FTC (DIT)
<b>*Mrs. Patricia Fella</b>	–	BEd. (Kenyata)
<b>Mr. Abbas Sanga</b>	–	BEd Lit. (UDSM)
<b>*Mr. Isack Kibona</b>	–	BSc. Ed. (UDSM)
<b>*Mr. Balthazar Charles</b>	–	BSc. (Ed) UDSM.
<b>Mr. Jakob Lupia</b>	–	BSc. Ed. (UDSM)
<b>Mr. Yohana J. Sesabo</b>	–	BBA (Marketing) (MZUMBE)
<b>Ms. Buzo Honi</b>	–	BSC. Food Science & Tech (SUA), FTC, (DIT)
<b>Mr. Joel Mhanga</b>	–	BSC. Food Science & Tech (SUA)
<b>Ms. Angela Aluko</b>	–	BSC. Food Science & Tech (SUA)
<b>Mr. Zaharani H. Mgina</b>	–	BSC. Food Science & Tech (SUA)
<b>Mr. Helikumi Mlyashimbi</b>	–	BED Science (UDSM)
<b>Mr. Christopher Mgimba</b>	–	BSC. ED (UDSM)
<b>Mr. Gasper Mwanyika</b>	–	BSC Biotech. & Lab Science (SUA)
<b>Mr. Fredrick S. Ojija</b>	–	BSC in wildlife Science & Conervation (UDSM)
<b>Mr. William Matungwa</b>	–	BSC Environ Science & Management (SUA)
<b>Mr. Charles Raphael</b>	–	BAEd (Linguistic & Literature ) (UDSM)
<b>Mr. Evans J. Lupenza</b>	–	DACA, Moshi Coop. College. B. Com (UDSM)
<b>Mr. Makebe Majogoro</b>	–	BSc, (ED) Chemistry & Maths (UDSM)
<b>Mr. James Mputa</b>	–	BSc (ED) Chemistry & Biology (UDSM)

## **Laboratory Technicians**

<b>Mr. Yesaya Swila</b>	–	FTC Lab. Tech. (DIT)
<b>Mr. Peter Balageti</b>	–	FTC Lab. Tech. (DIT)
<b>Mr. Charles Chekecha</b>	–	DIP Ed (KLERUU), FTC, Lab Tech (DIT) Cert IT
<b>Mr. Joseph Kayange</b>	–	DIP. Lab Tech (DIT)
<b>Mrs. Alumbwage Lupenza</b>	–	FTC Lab Tech(DIT)

## Secretary

Mrs. Faith Maganga – Dipl. in Office Mgt and Adm. (Shukrani)

\* On study leave

### 6.5.5 COURSE MODULES FOR ORDINARY DIPLOMA IN BUSINESS ADMINISTRATION

#### NTA LEVEL 4.

#### Semester 1

MODULE CODE	MODULE TITLE	SCHEME OF STUDY (hr/wk)				Credits
		L	T	P	IS	
SB 411	Elementary Business Mathematics	4	2	-	1	10
SB 412	Introduction to Supervisory Skills	4	2	-	1	10
SB 413	Elementary Economics	4	2		1	10
SB 414	Basic Communication Skills	4	2	-	1	10
SB 415	Introduction to Computers	3	1	2	1	10
SB 416	Introduction to Environmental Studies	4	2	-	1	10
	<b>TOTAL</b>	<b>23</b>	<b>11</b>	<b>02</b>	<b>06</b>	<b>60</b>

#### Semester 2

MODULE CODE	MODULE TITLE	SCHEME OF STUDY (hr/wk)				Credits
		L	T	P	IS	
SB 421	Introduction to Entrepreneurship	4	2		1	10
SB 422	Basic Procurement and Supply	4	2	-	1	10

SB 423	Elements of Commerce	4	2	-	1	10
SB 424	Principles of Salesmanship	2	2	-	1	10
SB 425	Basic Bookkeeping	3	2	-	1	10
SB 426	Field Practical	-	-	-	-	10
	<b>TOTAL</b>	<b>17</b>	<b>10</b>	<b>00</b>	<b>05</b>	<b>60</b>

## NTA LEVEL 5.

### Semester 1

MODULE CODE	MODULE TITLE	SCHEME OF STUDY (hr/wk)				Credits
		L	T	P	IS	
SB 511	Introduction to Management Principles	4	2	-	1	10
SB 512	Introduction to Business Law and Ethics	4	2	-	1	10
SB 513	Introduction to Marketing	4	2		1	10
SB 514	Introduction to Economics	4	2	-	1	10
SB 515	Business Communication	4	2	-	1	10
SB 516	Business Mathematics and Statistics	4	2	-	1	10
	<b>TOTAL</b>	<b>24</b>	<b>12</b>	<b>00</b>	<b>06</b>	<b>60</b>

### Semester 2

MODULE CODE	MODULE TITLE	SCHEME OF STUDY (hr/wk)				Credits
		L	T	P	IS	
SB 521	Small Business Management	3	1	-	1	8
SB 522	Introduction to Financial Accounting	3	1	-	1	8
SB 523	Information and Computer Technology	4	2	-	1	10

SB 524	Introduction to Environmental Economics	4	2	-	1	10
SB 525	Sales Management	3	1	-	1	8
SB 526	Procurement and Supply	4	2	-	1	10
SB 528	Field Practical					10
	<b>TOTAL</b>	<b>21</b>	<b>09</b>	<b>00</b>	<b>06</b>	<b>64</b>

## NTA LEVEL 6

### Semester 1

MODULE CODE	MODULE TITLE	SCHEME OF STUDY (hr/wk)				Credits
		L	T	P	IS	
SB 611	Economics	4	2	-	1	10
SB 612	Financial and Cost Accounting	4	2	-	1	10
SB 613	Principles of Marketing	4	2		1	10
SB 614	Human Resources Management	4	2	-	1	10
SB 615	Introduction to Quantitative Methods	3	2	1	1	10
SB 616	Entrepreneurship	4	2		1	10
	<b>TOTAL</b>	<b>23</b>	<b>12</b>	<b>01</b>	<b>06</b>	<b>60</b>

### Semester 2

MODULE CODE	MODULE TITLE	SCHEME OF STUDY (hr/wk)				Credits
		L	T	P	IS	
SB 621	Introduction to International Marketing	4	2	-	1	10
SB 622	Financial Management	4	2	-	1	10
SB 623	Introduction to Business Environment	4	2	-	1	10
SB 624	Logistics and Transportation Management	4	2	-	1	10

SB 625	Introduction to Production Management	4	2	-	1	10
SB 626	Field Practical					10
	<b>TOTAL</b>	<b>20</b>	<b>10</b>	<b>00</b>	<b>05</b>	<b>60</b>

### 6.5.6 Course Modules in the Department of Science and Business Management for Engineering and Architecture Programmes.

#### NTA LEVEL 4

#### Semester I

Fundamental Modules		
Module Code	Module Name	Credit
GST 04201	Advanced Mathematics I	5
GST 04202	Physical Sciences I	3
GST 04203	Communication Skills I	2
GST 04104	Entrepreneurship and Development I	3
<b>Total</b>		<b>13</b>

#### Semester II

Fundamental Modules		
Module Code	Module Name	Credits
GST 04201	Advanced Mathematics II	5
GST 04202	Physical Sciences II	3
GST 04203	Communication Skills II	2
GST 04204	Entrepreneurship and Development II	3
<b>Total</b>		<b>13</b>

## NTA LEVEL 5

### Semester I

Fundamental Modules		
Module Code	Module Name	Credits
GST 05101	Advanced Mathematics III	3
GST 05102	Physical Sciences III	3
GST 05103	Communication Skills III	2
GST 05104	Entrepreneurship and development III	2
<b>Total</b>		<b>10</b>

### Semester II

Fundamental Modules		
Module Code	Module Name	Credits
GST 05201	Advanced Mathematics IV	3
GST 05202	Physical Sciences IV	3
GST 05203	Communication Skills IV	2
GST 05204	Entrepreneurship and Development IV	2
<b>Total</b>		<b>10</b>

## NTA LEVEL 6

### Semester I

Fundamental Modules		
Module Code	Module Name	Credits
GSD 06101	Advanced Mathematics V	4
GSD 06102	Physical Sciences V	2
GSD 06103	Communication Skills V	2
GSD 06104	Entrepreneurship and Development V	4
<b>Total</b>		<b>12</b>

## Semester II

Fundamental Modules		
Module Code	Module Name	Credits
GSD 06201	Mathematics VI	3
GSD 06202	Physical Sciences VI	2
GSD 06203	Communication Skills VI	1
GSD 06204	Entrepreneurship and Development VI	4
<b>Total</b>		<b>10</b>

## NTA LEVEL 7 Higher Diploma in Business Administration

### Semester I

Fundamental Modules		
Module Code	Module Name	Credits
GS 711	Principles of Economics	10
GS 712	Principles of Management	10
GS 713	Communication Skills	10
GS 714	Principles of Accounting I	10
GS 715	Development Studies	10
GS 716	Introduction to Business	10
<b>Total</b>		<b>60</b>

### Semester II

Fundamental Modules		
Module Code	Module Name	Credits
GS 721	Introduction to Information Technology	10
GS 722	Principles of Marketing	10
GS 723	Introduction to Business laws	10
GS 724	Business Mathematics and Statistics	10
GS 725	Procurement and Supply	10

GS 726	Principles of Accounting II	10
GS 727	Field Practical I	10
<b>Total</b>		<b>70</b>

### Semester III

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credits</b>
GS 731	Quantitative Techniques	10
GS 732	Introduction to Entrepreneurship	10
GS 733	Management Accounting	10
GS 734	Marketing Research	10
GS 735	Labour and Employment	10
GS 736	Financial Management	10
<b>Total</b>		<b>60</b>

### Semester IV

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credits</b>
GS 741	International Marketing	10
GS 742	Project Appraisal and Evaluation	10
GS 743	Human Resource Management	10
GS 744	Ethics and Governance	10
GS 745	Research Methods	10
GS 746	Production Management	10
GS 747	Field Practical II	10
<b>Total</b>		<b>70</b>

## NTA LEVEL 8 Course Modules for the Bachelor of Business Administration

### Semester I

Fundamental Modules		
Module Code	Module Name	Credits
GS 811	Strategic Management	10
GS 812	Consumer Behavior	10
GS 813	Managerial Economics	10
GS 814	Risk Management	10
GS 815	Management Information Systems	10
GS 816	Organization Behavior	10
<b>Total</b>		<b>60</b>

### Semester II

Fundamental Modules		
Module Code	Module Name	Credits
GS 821	Procurement Management	9
GS 822	Corporate Finance	10
GS 823	Operation Research	10
GS 824	Special Project	12
GS 825	Business Planning and Development	10
GS 826	Management Consultancy Skills	10
GS 827	Product Development, Quality Control and Registration	8
<b>Total</b>		<b>69</b>

## 6.6 The Department of Mechanical Engineering

The department offers Ordinary Diploma in Engineering (NTA Level 4-6) and Bachelors Degree in Engineering (B.Eng.). Both programmes are of three years duration.

### 6.6.1 Sections Under the Mechanical Engineering Department

- i. Foundry and press forging
- ii. Automotive Engineering
- iii. Engineering Drawing and Designing
- iv. Hydraulics and Energy
- v. Production/ Manufacturing Engineering
- vi. Mechanical Engineering Science
- vii. Research and Development ( R&D)
- viii. Technology Development
- ix. Machine Shop

### 6.6.2 Course Modules in Mechanical Engineering Department

#### NTA LEVEL 4 Basic Technician Certificate

#### SEMESTER I

Fundamentals Modules		
Module Code	Module Name	Credits
GST 04101	Advanced Mathematics I	5
GST 04102	Physical Science I	3
GST 04103	Communication Skills I	2
GST 04104	Entrepreneurship and Development I	3
GST 04105	Basic Computer Applications I	2
Core Modules		
MET 04101	Engineering Drawing I	5
MET 04102	Engineering Materials I	3
MET 04103	Mechanical Engineering Science I	3
MET 04104	Automotive Technology I	13
MET 04105	Manufacturing Engineering I	13
MET 04108	Electrical Engineering Science I	3
<b>Total</b>		<b>55</b>

## Semester II

<b>Fundamentals Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credits</b>
GST 04201	Advanced Mathematics II	5
GST 04202	Physical Science II	3
GST 04203	Communication Skills II	2
GST 04204	Entrepreneurship and Development II	3
GST 04205	Basic Computer Applications II	2
<b>Core Modules</b>		
MET 04201	Engineering Drawing II	5
MET 04202	Engineering Materials II	3
MET 04203	Mechanical Engineering Science II	3
MET 04204	Automotive Technology II	13
MET 04205	Manufacturing Engineering II	13
MET 04208	Electrical Engineering Science II	3
IPT 04	Industrial Practical Training I	10
<b>Total</b>		<b>65</b>

## NTA LEVEL 5 Technician Certificate

### Semester I

<b>Fundamentals Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credits</b>
GST 05101	Advanced Mathematics III	3
GST 05102	Physical Science III	3
GST 05103	Communication Skills III	2
GST 05104	Entrepreneurship and Development III	2
GST 05105	Basic Computer Application III	2
<b>Core Modules</b>		

MET 05101	Engineering Drawing III	6
MET 05102	Engineering Materials III	3
MET 05103	Strength of Materials I	3
MET 05104	Automotive Technology III	12
MET 05105	Manufacturing Engineering III	12
MET 05106	Machine Elements and Design I	3
MET 05107	Thermodynamics	4
MET 05108	Engineering Measurements & Instrumentations I	3
<b>Total</b>		<b>58</b>

## Semester II

<b>Fundamentals Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credits</b>
GST 05201	Advanced Mathematics IV	3
GST 05202	Physical Science VI	3
GST 05203	Communication Skills IV	2
GST 05204	Entrepreneurship and Development IV	2
GST 05205	Basic Computer Applications IV	2
<b>Core Modules</b>		
MET 05201	Engineering Drawing IV	6
MET 05204	Automotive Technology IV	12
MET 05205	Manufacturing Engineering IV	10
MET 05206	Machine Elements and Design II	3
MET 05207	Fluids Mechanics	3
MET 05208	Control Technology	3
MET 05209	Basic Electronics	3
IPT 05	Industrial Practical Training II	10
<b>Total</b>		<b>60</b>

## NTA LEVEL 6 Ordinary Diploma

### Semester I

<b>Fundamentals Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credits</b>
GSD 06101	Advanced Mathematics V	4
GSD 06102	Physical Science III	2
GSD 06103	Communication Skills V	2
GSD 06104	Entrepreneurship and Development V	4
GSD 06205	Basic Computer Applications V	2
<b>Core Modules</b>		
MED 06101	Engineering Drawing V	6
MED 06106	Machine elements and Design III	3
MED 06109	Power Production I	3
MED 06110	Air –Conditioning and Refrigeration I	9
MED 06111	Production Technology	14
MED 06114	Mechatronics I	3
MED 06113	Environmental Engineering	3
MPR 061	Project	4
<b>Total</b>		<b>59</b>

### Semester II

<b>Fundamentals Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credits</b>
GSD 06201	Advanced Mathematics VI	4
GSD 06202	Physical Science IV	3
GSD 06203	Communication Skills VI	2
GSD 06204	Entrepreneurship and Development VI	4
<b>Core Modules</b>		
MED 06201	Computer Aided Drafting	6
MED 06206	Machine elements and Design IV	3
MED 06210	Air –Conditioning and Refrigeration II	9
MED 06211	Mechatronics II	3

MED 06209	Power Production II	3
MED 06215	Workshop Management	14
MPR 061	Project	4
IPT 06	Industrial Practical Training	10
<b>Total</b>		<b>65</b>

## NTA LEVEL 7 Higher Diploma

### Semester 1

Fundamental Modules		
Module Code	Module Name	Credits
GSH 7101	Engineering Maths. I(Linear Algebra &Analysis)	
GSH 7102	Communication Skills	6
EEH 7205	Electrical Machines	3
		6
Core Modules		
MEH 7101	Computer Aided Drafting	9
MEH 7102	Strength of Materials I	7
MEH 7103	Mechanics of Machines	6
MEH 7104	Engineering Thermodynamics	6
MEH 7105	Machine Elements and Design I	7
MEH 7106	Workshop Technology	7
<b>Total</b>		<b>57</b>

### Semester II

Fundamental Modules		
Module Code	Module Name	Credits
GSH 7202	Engineering Mathematics. II (Advanced Calculus)	6
COH 7202	Computer Networking	7
Core Modules		
MEH 7207	Machine Elements and Design II	7
MEH 7208	Strength of Materials II	7

MEH 7209	Materials Technology	6
MEH 7210	Fluid Mechanics	6
MEH 7211	Industrial Management	6
IPTH 7212	Industrial Practical Training	10
<b>Total</b>		<b>55</b>

### Semester III

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credits</b>
GSH 7303	Eng. Maths III (Differential Equations)	6
GSH 7331	Entrepreneurship	4
<b>Core Modules</b>		
MEH 7313	Systems Reliability and Plant Maintenance	7
MEH 7314	Dynamics of Mechanical Structures	7
MEH 7315	Finance and Human Resources Management	6
MEH 7316	Industrial energy Management	6
MEH 7317	Metal cutting and Machine tools I	7
MEPR 7318	Project I	11
<b>Total</b>		<b>54</b>

### Semester IV

<b>Fundamental Modules</b>		
<b>Module Code</b>	<b>Module Name</b>	<b>Credits</b>
GSH 7404	Eng. Maths. IV (Numerical and Statistics Analysis)	6
<b>Core Modules</b>		
MEH 7419	Industrial Automation	6
MEH 7420	Engineering Design	6
MEH 7421	Computer Aided Engineering (CAE)	9
MEH 7422	Engineering Operations Management	6
MEH 7423	Heat Transfer	7
MEH 7424	Metal Cutting and Machine Tools II	7
MEPR7425	Project II	11
IPT II 7426	Industrial Practical Training	10
<b>Total</b>		<b>68</b>

## NTA LEVEL 8

### Semester 1

Core Modules		
Module Code	Module Name	Credits
MEB8101	Control Systems Engineering	4
MEB8102	Fluid Power and Control	6
MEB8103	Power Plants	6
MEB8104	Material Handling Design	6
MEB8105	Turbo Machinery	6
MEB8106	Production Engineering	4
MEB8107	Refrigeration Machine and Air conditioning III	6
MEB8108	Engine Design Technology I	6
SPR 8109	Senior Project I	18
<b>Total</b>		<b>62</b>

### Semester II

Core Modules		
Module Code	Module Name	Credits
MEB8210	Quality Assurance and Control	4
MEB8211	Renewable Energy Technologies	6
MEB8212	Engineering Ethics and Professional Conduct.	4
MEB8213	Automation and Robotics	6
MEB8214	Engine Design Technology II	6
MEB8215	Foundry Technology	4
MEB8216	Refrigeration and Air Conditioning IV	6
MEB8217	Computer Aided Manufacturing (CAM)	6
SPR8218	Senior Project II	18
GSB8206	Entrepreneurship for Engineers	6
<b>Total</b>		<b>66</b>

#### 6.6.3 Existing Laboratories and Workshops for Mechanical Engineering Department

- Foundry Workshop
- Press Forging Workshop
- Welding Workshop
- Machine Shop

- Metal Cutting Laboratory
- Technical Measurements Laboratory
- Production Workshop
- Hydraulics and Energy Laboratory

#### 6.6.4 List of Academic Staff in Mechanical Department

##### Lecturers

- Dr. Naiman Lemeirut** – PhD Agric. Mech. (MSAU, Russia), MSc Mech. Eng. (MAEI, USSR). – **Head of Department**
- Dr. A.N. Mtawa** – PhD Mech. Eng. (CPUT, SA), Msc Mech. Eng. (SOFIA, Bulgaria), FTC Mech. Eng. (ATC) – **Deputy Principal Planning, Finance and Administration. (DPPFA)**
- Dr. Noel Mbonde** – PhD Mech. (CPUT, SA) MSc. Mech. Eng. (DSTU, USSR) – **Deputy Principal Academic Research and Consultancy. (DPARC)**

##### Assistant Lecturers

- Mr. Moses Y. Malole** – MSc. Tech. (USSR) – **Deputy Head of Department and Institute Transport Officer**
- Mr. Modestus K. Ngajilo** – MSc. Eng. (Agric Mech.-USSR)
- \*Mr. Duncan A. Mwakipesile** – MSc. Mech. Eng. (Bulgaria)
- \*Mr. Wilson Kiunsi** – MEM, BSc. Mech. Eng. (UDSM)
- Mr. Elias S. Siyame** – MSc. Mech. Eng. (USSR)
- Mr. Amani Binali** – Msc. Environmental Eng. (Australia), ADE (DIT), PGD – Mech. (UDSM)
- Mr. Wambura Mwita** – MSc Mech. Eng (CPUT-SA)
- Mr. Yusuph A.C Jande** – MSc Mech. Eng (METU-Turkey)
- Mr. Joel Mbwiga** – MSc Renewable Energy (UDSM)

##### Tutorial Assistants

- \*Mr. Emmanuel Mwangomo** – BSc Eng. Energy, (UDSM), Dipl. Ed. (Kleruu)
- \*Mr. Raphael Iddiphonce** – BSc. Mech. Eng. (UDSM),
- \*Mr. Masoud Kamoleka** – BSc. Electro-Mech. Eng. (UDSM)

- \*Mr. Joram Ngilangwa** – BSc. Mech. Eng. (UDSM)
- \*Mr. Vicent Marwa** – ADE Mech. (MIST),
- Mr. Israel Komba** – AD E Mech. (DIT)
- \*Mr. Gwalusako Mwaipopo** – ADE Mech. (MIST)
- \*Mr. Mathew Mbaule** – ADE Mech. (MIST)
- Mr. Jonathan Lunyungu** – ADE Mech. (MIST)
- \*Mr. Omary Pinda** – ADE Mech. (MIST)
- Mr. Ballo Mwendapole** – ADE Mech. (MIST)
- Mr. Charles Luhwago** – ADE Mech. (MIST)
- \*Mr. Addi Palilo** – ADE Mech. (DIT)
- Mr. David Kindapala** – BSc Mech. Eng. Mech (UDSM)
- Lekamere N. Kariwa** – B. Eng. Mechanical Eng. Energy (D.I.T)  
Diploma Tech. Ed. (Kreluu), FTC Automotive  
Eng. (T.C.A).
- Zuwena Bakari** – Bsc. Electromechanical Eng. (UDSM)
- Mr. Fredrick Mwenda** – BSc Computer Science (STJCE)
- Silla W. Livifile** – ADE Mech. Eng. (MIST), FTC Mech. Eng.  
(TCA).
- Michael T. Mwakyonya** – ADE Auto. Eng. (nit), Dipl. Auto. Eng (NIT)

### **Instructors**

- Mr. Abdon Ngogo** – DTE, FTC Mech (DIT),
- Mr. Evance Tweve** – ADE Mech, (MIST),
- \*Mr. F. Cheo** – FTC (MIST), DTE Mech. (Kleruu),
- Mr. Samwel E. Mwasanjobe** – Dip.Marn. Eng. (Mbegani)
- Mr. Ntenga Kraison** – ODE, Marn. Eng (Mbegani), Trade Test I

### **Technicians:**

- \*Mr. Seuri Kilakoi** – FTC Mech. (MIST)
- Mr. W. Mwasenga** – FTC (MTC) Mechanical

## **Artisan**

**Mr. John V. Ndunguru** – Trade Test Grade II

**\*Mr. Fredrick Maula** – Trade Test Grade I

**Mr. Ulimboka Kamwela** – Trade Test Grade III

**Mrs. Palestina Ndelwa** – Trade Test Grade III

## **Secretary**

**Ms Flora Mwami** – Cert. of Typing Upgrading Course

\* On Study Leave

## **7.0 BRIEFS OF ACADEMIC RELATED UNITS**

### **7.1 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:

#### **7.1.1 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.

#### **7.1.2 Staff Under Research and Publication Department**

**Dr. Julius Rwakarambi** – PhD Comp. Sc. (SJTU, China), MSc. Comp. Sc. (SHU, China) BSc. Ed. (UDSM) - **Head of Department**

#### **Secretary:**

**Ms. Gift Nkwama** – **Cert. Secret. (VETA)**

### 7.1.3 Curriculum Development Task Team Coordinators

- Dr. Lusajo Minga** – PhD Mngt, Sc. & Eng. HIT, China), MSc Comp. Sc. EC (DPL USSR), FTC (ATC). Computer Department.
- Mr. Juma Julius** B.Arch., (UDSM), Dip.ED. (KLERUU), Architecture Department
- Mr. Boniface Shayo** MSc. Eng. PGD, (UDSM), AD.B.Econ. (ARDHI), Civil Department.
- Mr. Modestus Ngajilo** MSc. Eng Agric. Mech. (USSR), Mechanical Department.
- Ms. Scholastica Loppa** MEM, PGD Elect. Eng. (UDSM), ADE.Elect.Eng. FTC, (ATC) Electrical Department.
- Visent T. Kipene** MBA (SUA), BSc. Agric (SUA) Dip in Ed (Monduli), Science and Business Department

### Research and Publication Coordinators

- Dr. Muya S. Mgaza** – PhD Geotechnical (China); MSc Geotechnical (China)
- Mr. Mbasa Segelela** – B Arch. (UDSM), Architecture Department
- Mr. Joseph Mkisi** – MSc. Civil Eng. (Bulgaria), Civil Department
- Mr. Modestus K. Ngajilo** – MSc. Eng. Agric Mech. (USSR), Mechanical Department
- Mr. Arthur Mngoma Omari** – MSc Elec. Eng. (Kharkov state Technical University of Agriculture- Ukraine), Tech. Ed. (Morogoro), Electrical Department
- Mr. Godfrey Kayombo** – BSc Comp. Eng. (DIT), Computer Department
- Mr. Yohana J. Sesabo** – BBA (Marketing) (MZUMBE), Science and Business Management Department

### MIST CONSULTANCY BUREAU

MIST CONSULTANCY BUREAU is responsible for coordinating the use of the Institute Resources to contributing effectively to industrial and socio-economic development of Tanzania.

- Promoting effective entrepreneurship and usage of appropriate technology, which meet national and International and standards, through skills and practical oriented training and consultancy.

#### **7.1.4 Staff under MIST Consultancy Bureau**

<b>Mr. Joseph Mkisi</b>	– MSc. Civil Eng. (Bulgaria), <b>Head of Consultancy Bureau (MCB)</b>
<b>Mr. Arnold Kashula</b>	– B Arch. (UCLAS, UDSM). – <b>Deputy Head of Consultancy Bureau (MCB)</b>
<b>Mr. Israel Mayage</b>	– B Arch. (UDSM). - Architecture Coordinator
<b>Mr. Pascal Yamakili</b>	– ADIT (IAA) – Computer Engineering Coordinator
<b>Mr. I Ndimbo</b>	– BSc. Eng. Civil (UDSM), BSc (Civil) – Civil Engineering Department Coordinator
Mr. Manase P. Buchumi	– BSc. Elect Eng. (SJCET) FTC, Elect. Eng. (MTC) – Electrical Engineering Coordinator
Mr. Modestus K. Ngajilo	– MSc. Eng. (Agro Mech.) – (USSR) Mechanical Engineering Coordinator
Mr. Yohana Sesabo	– BBA-Marketing (Mzumbe)- Science and Business Administration Coordinator

#### **Secretary:**

**Ms. Gift Nkwama**                      **Cert. Secret. (VETA)**

#### **7.2 Industrial Liaison Office (ILO)**

The office of the Industrial Liaison Officer (ILO) is under the Deputy Principal Academic, Research and Consultancy. The office is responsible for coordinating Students’ Industrial Practical Training and field practical training (IPT/FPT), which is a vital part of the Institute programmes and curricula. The IPT/FPT is recognized as the course module and is conducted once in each NTA level and often done after completing class modules. IPT modules carries 10 credits. The IPT module is designed to enable MIST graduates become flexible and able to meet challenges of the job market or industry and also it make them think positively towards self-employment undertakings.

The Industrial Liaison office is also responsible for Industrial Relations



### 7.3.5 Working Hours

<b>Semester time</b>	<b>Out of semester</b>
Monday – Friday 8:30 – 21:00	Monday – Friday 8:30 – 21:00
Saturday 8:00 – 12:30	Saturday & Sunday Closed
Sunday Closed	
<b>PUBLIC HOLIDAYS CLOSED</b>	

### 7.3.6 Library Staff:

#### **Principal Librarian:**

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

#### **Senior Record Officer:**

**Upendo S. Mung’ong’o** – Cert. (Records & Office Management)

#### **Librarian**

**Adam Lucas** – BA – LIS (TUDARCO)

**Justina Lwankomezi** – BED (ARTS) (UDSM)

#### **Library Assistant:**

**Jacqueline Amani** – LIB. Cert. (SLADS)

**Petronila Peter** – Form IV

**Stephano Matiku** – Form IV

**Gwantwa Mwakasangula** – LIB. Cert. (SLADS)

**Christina Sipuka** – LIB Cert. (SLADS)

**Nassoro Ally** – LIB Cert. (SLADS)

## **8.0 SUPPORTING DEPARTMENTS / UNITS:**

- 8.1 Stores:** Responsible for procurement and supplies of the daily goods and services for the college.
- 8.2 Accounts:** Deals with all financial matters of the entire Institute.
- 8.3 Dean of Students:** Deals with students' welfare.
- 8.4 Public Relations Office:** Deals with all Communications, Inquiries, Complaints, Criticism and all Public Relations related matters.
- 8.5 Legal Office:** Deals with all legal related matters.
- 8.6 Catering Office:** Deals with catering matters.
- 8.7 Estate:** Deals with maintenance and repairs of building, machines and equipment as well as minor construction works.

## **9.0 INSTITUTE FACILITIES**

### **9.1 Training Facilities**

These are facilities available in the Institute for supporting academic activities. They include the following;

**9.1.1 Classrooms:** For conducting lectures

#### **9.1.2 Laboratories**

Equipped with machines and equipment for carrying out experiments and tests.

#### **9.1.3 Workshops**

Available in each department to support practical training execution and projects.

#### **9.1.4 Computer rooms**

The college has two computer laboratories; one intended for OD programs and the other used bachelor programs.

#### **9.1.5 Seminar Rooms**

There are two modern seminar rooms each with a capacity to accommodate 80 participants at a time. The rooms can be higher for seminars and also are used for conducting classes and tutorials for both OD and Bachelor programs.

## **9.2 Social and Welfare Facilities**

### **9.2.1 Sports Hall**

The college is provided with a sports hall for indoor games like Gymnastics, Badminton, Table tennis and Basketball.

### **9.2.2 Sports Grounds**

The College has also outdoor grounds for Football, Netball, Volleyball, Lawn tennis and Basketball.

### **9.2.3 Assembly Hall (The Nyerere Hall)**

The assembly called Nyerere Hall has a capacity to hold 800 people at a time. It is used for meetings, and other social functions and gatherings.

### **9.2.4 Cafeteria**

The Institute provides meals to Ordinary diploma students in a well-equipped cafeteria, capable of accommodating 250 students at a time. The cafeteria includes a small dining hall and a well-equipped kitchen. Equipments include modern cooking, cooling and refrigeration facilities. The services in the Cafeteria are provided under the private sector partnership (PSP).

### **9.2.5 Social Club**

The social club serves meals and drinks to bachelor students. It also provides recreational and accommodation services to guests and members of the community.

## **9.3 Other facilities**

### **9.3.1 Students Hostels**

There are two hostels with a combined capacity of 800 for Ordinary Diploma Students and one hostel that can accommodate 360 Bachelor Students.

### **9.3.2 Dispensary**

The college provides medical service to students, workers and Institute residents in its dispensary. The dispensary is staffed with one MA, two Nurses/Midwives and a laboratory technician and a laboratory attendant.

### **9.3.3 Staff Quarters**

There are five blocks of residential houses within the Institute premises.

Each block has 16 apartments capable of accommodating 16 families making a total of eighty (80) families.

### 9.3.4 Study Tours

Study tours are organized in accordance with the subject contents and shall be initiated by the subject master.

## 9.4 Academic Prizes

Academic Prizes are offered to best students in each course at every Academic year Provisions are as follows.

**Table 8: Academic Prizes**

Course Title	Department	Awards for Year 1	Awards for Year 2	Awards for Year 3
<b>Ordinary Diploma (NTA level 4 - 6)</b>	Architecture	25,000	25,000	25,000
	Civil Engineering	25,000	25,000	25,000
	Computer Engineering	25,000	25,000	25,000
	Electrical Engineering	25,000	25,000	25,000
	Mechanical Engineering	25,000	25,000	25,000
	SBM	25,000	25,000	25,000
<b>Bachelor of Engineering (NTA Level 7- 8)</b>	Architecture Engineering	25,000	25,000	25,000
	Civil Engineering	25,000	25,000	25,000
	Computer Engineering	25,000	25,000	25,000
	Electrical Engineering	25,000	25,000	25,000
	Mechanical Engineering	25,000	25,000	25,000
Bachelor of Business Administration (BBA)	SBM	25,000	25,000	25,000

Apart from the above prizes, the Institutes awards certificates to all best students in each academic year.





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