



NATIONAL INSTITUTE OF TRANSPORT (NIT)

Prospectus 2022 - 2023



Excellence in Logistics, Management and Transport Technology

Message from the Rector



A very warm welcome to all. Since each of you is connected with the National Institute of Transport (NIT), let us join our hands together in achieving Institutional objectives for the new academic year 2022/23. Special welcome to our new students who are joining this vibrant Institution for the first time. Although every New Year brings a new dawn and fresh hope, this year is more special than others in many aspects. It finds NIT at the threshold of moving to new heights that include embracing new technologies for transforming the Institute into a world-class training Institution committed to support a sustainable transport sector. NIT was established in 1975 and currently has a student population of more than 12,000 with 224 available academic staff members and 122 supporting staff. It focuses in the training of transport and logistics as well as allied disciplines at undergraduate and postgraduate levels. The programmes are in areas of **Logistics and Transport management, Maritime Transport and Petroleum Technology, Aviation, Road and Railway Transport and Allied Management Sciences**. This publication provides comprehensive information on the aforementioned study areas on matters related to academics. It is intended to serve as a guide to prospective and on-going Students. NIT has proven to be a dynamic and fast-growing Institution that lives to its motto of Excellence in Logistics, Management and Transport Technology and its vision to be World-Class Training Institution Committed to Support a Sustainable Transport Sector. NIT has embarked on an ambitious transformation of becoming a Transport University while still ensuring the improvement of services, innovation, and quality of teaching and learning environment. The Institute has state-of-the-art workshops and laboratories equipped with modern teaching facilities. It has also vehicle inspection centre, conference facilities, hostels and sports facilities. Therefore, this leaves no doubt that we are entering an exciting period of the evolution of our Institute; a period of progressive transformation and great expectations that assures us a brighter future. That future is starting now. Thank you all for taking part in this journey of moving into the future together. Other useful information about the Institute can be found in the official website at www.nit.ac.tz and other documents of the Institute.

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Rector

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1.0. INTRODUCTION TO NATIONAL INSTITUTE OF TRANSPORT

1.1. HISTORICAL BACKGROUND

The National Institute of Transport (NIT) was established by Act of Parliament, Number. 24 of 1982 (Cap 187 revised edition 2009). The history of NIT dates back to 1975, when due to the complexity of the transport sector and the intricacies involved in its management necessitated the introduction of comprehensive training programmes for the development of the sectorial manpower. Currently the Institute is under the Ministry of Works and Transport. It is fully accredited by the National Council for Technical Education (NACTE) with Certificate of Registration Number REG./EOS/009 of 2002.

It offers education and training programmes leading to qualifications recognized nationally and internationally.

1.2. VISION AND MISSION

The Institute's Vision and Mission are: -

1.2.1. Vision

To be a World-Class Training Institution committed to support a Sustainable Transport Sector.

1.2.2. Mission

To Provide high quality Education and Training, Research, Consultancy, Innovation and services in Transport and allied fields for Sustainable Socio-Economic Development.

1.3. PRIMARY OBJECTIVES OF THE INSTITUTE

- (a) To provide facilities for the study and training in the principles, procedures and techniques of transport operations, physical distribution and such other related subjects as the Council may decide from time to time,
- (b) To conduct training programmes in the subjects specified in paragraph (a) and in such other related subjects as the Council may from time to time decide,
- (c) To engage into research, operational and organizational problems and training needs in the areas specified in paragraph (a) and in the transport sector in general and to evaluate the results achieved by the Institute's training programmes,
- (d) To provide consultancy services to the government, parastatal bodies and such other organizations or persons as may be necessary,
- (e) To sponsor, arrange and provide facilities for conferences and seminars,
- (f) To establish departments within the Institute for the organization and administration of its activities,

- (g) To conduct professional examinations and to grant professional masters, degrees, diplomas and certificates of different types and other awards of the Institute,
- (h) To do all such acts and things, and enter into all such contracts and transactions, as are, in the opinion of the Council expedient or necessary for the proper and efficient discharge of the functions of the Institute,
- (i) To arrange for publications and general dissemination of materials produced in connection with the work and activities of the Institute,
- (j) To establish and foster closer association with other Institutions of higher learning.

2.0. ORGANISATION OF NIT

2.1. MEMBERS OF THE GOVERNING COUNCIL

CHAIRPERSON

Prof. Blasius Bavo Nyichomba,
P.O. Box 31039,
DAR ES SALAAM.

SECRETARY

Eng. Prof. Zacharia M. D. Mganilwa,
P. O. Box 705,
DAR ES SALAAM.

MEMBERS

Prof. Hannibal Jocktan Bwire,
P.O. Box 35131,
DAR ES SALAAM.

Prof. Ulingeta Obadia L. Mbamba
P.O. Box 35046,
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Eng. Dr. Gemma Kishari Modu,
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Mr. Eliona Simbo,
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DAR ES SALAAM.

Ms. Violet David Nyambe,
Secretary – ASANIT,
P.O. Box 705,
DAR ES SALAAM.

Mr. Mark N. Makaranga,
President – SONIT,
P.O. Box 705,
DAR ES SALAAM.

2.2. INSTITUTE MANAGEMENT TEAM

Rector

Eng. Prof. Zacharia M. D. Mganilwa - PhD in Agricultural Science (Kagoshima University Japan), MSc in Agricultural Machinery – (Miyazaki University Japan), BSc in Mechanical Engineering – (UDSM), FTC in Mechanical Engineering – (DIT).

Heads of Unit under the Rector’s Office

Public Relations Unit

Principal Public Relations Officer

Ms. Tulizo Chusi – MSc. Marketing - (MU), BAJ - (TUICo).

Public Relations Officer I

Ms. Ngusekela David - BA. Mass Communication – (UDSM).

Public Relations Officer II

Ms. Victoria S. Olesaitabau – BA in Public Relations and Marketing – (St. Augustine University of Tanzania).

Head of Procurement Management Unit

CPSP Moses Magere –MSc. PSCM-(MU), CPSP – (T), (PSPTB).

Senior Supplies Officer II

Mr. Mohamed Manzi - CPST (PSPTB-Tanzania), NSC – (TIA).

Head of Vehicle and Heavy Equipment Management Unit

Mr. Christian Nabora –MSc. Sustainable Energy Sciences and Engineering (Sustainable Renewable Energy Engineering) - (NM – AIST), BAE – (NIT), DAE – (NIT).

Chief Internal Auditor

CPA Johaness B. Kerenge - MBA – (MU), CPA – (T), ADA – (MU).

Quality Assurance and Quality Control

Manager

Mr. Cornelio Swai - MSc Accounting MAT – (SJUT), BAT – (SJUT).

Coordinators

Mr. Sesera A.Samson– MSc. LTM - (NIT), BLTM – (NIT)

Mr. Daniel Haule – M.A Education in Administration, Planning and Policy Studies – (OUT) B.A - (UDSM).

Ms. Nyangi Masanja – MBA (UDOM), BA Cultural Anthropology and Tourism – (TUDARCo).

Ms. Prisila A. Ishabakaki – MSc. in Information and Communication Science and Engineering – (NM-AIST), BSc. in Telecommunication Eng. – (UDSM).

Mr. Victor S. Nkwera - MSc. Information and Communication Engineering BIT-(China), B.E Electronics and Telecommunication Engineering – (DIT), FTC Electronics and Telecommunication Engineering - (DIT), Business Intelligence Analyst IBM.

Head of Management Information Systems Department

Ms. Leticia Edward - MSc. in Computer Science – (UDOM), Postgraduate Diploma in Scientific Computing – (UDSM), Advanced Dip in Information Technology – (IFM).

Deputy Rector - Academic, Research and Consultancy

Eng. Dr. Prosper L. Mgaya - PhD in Water Resources Engineering – (Kyoto University–Japan), MSc. in Water Resources Engineering – (UDSM), BSc. in Civil Engineering – (UDSM).

Heads, Examination Coordinators under the Academic Directorate

Head Academic Administration Department (Registrar)

Mr. Richard B. Galilava – MBA – (UDSM), B.Ed. Science-Mathematics – (UDSM), PGD Poverty Analysis– (ISS- Netherlands), Cert. Labor Laws – (TLC-Tanzania).

Senior Admission and Examination Officer I

Ms. Adela E. Muhale - MEMA– (UDSM), BA Ed. – (UDSM), Dip in Education (Mpwapwa T.T.C).

Ms. Emaculata L. Kisanga - Master in Curriculum and Instruction – (Mwenge University College of Education), BEd Arts Kiswahili – (DUCE).

Mr. Lambert A. Rwegoshora - M. Arts – (UDSM), BEd Art in Geography – (UDSM).

Admission and Examination Officer I

Ms. Mwachenga Singa -M. Arts – (UDSM), BSc. Education – (OUT), Dip in Education – (Kleruu T.T.C).

Admission and Examination Officer II

Mr. Joel M Njelekela – B.A Ed. - (UDSM).

Ms. Nuru Ramsi - M. Arts in in Public Administration (UDSM), B. Arts in Public Administration - (UDOM)

Head of Research, Publications and Postgraduate Studies (RPS) Department

Dr. Eva O. Luwavi – PhD in Education – (UDSM), MAED Curriculum - (UDSM), BA. Ed – (DUCE).

Assistant Head of Research, Publications and Postgraduate Studies Department (RPS)

Mr. Salum Mihayo - MSc. in PSCM – (MU), ADCFF – (NIT).

Head of Curriculum Unit

Mr. Justine W. Kira - MSc Mathematical Modeling – (UDSM), BSc. Education – (UDSM).

Assistant Head of Curriculum Unit

Ms. Janeth Michael - MSc Mathematical Modeling – (UDSM), BSc. Education – (UDSM), Dip in Education – (Dar es Salaam T.T.C).

Head of Consultancy and Production Bureau (CPB)

Dr. Hans Luambano - PhD Development Studies – (UDSM), M.A. – (UDSM), B.A. Sociology – (UDSM), Advanced in Logistics – (Dresden International University – Germany).

Head of National Transport Resource Centre (NTRC)

Ms. Fitina Petro – Master of Library and Information Management – (OUT), M.A Educational Management and Administration – (KIU - Uganda), B.A Library and Information Studies – (Tumaini University Dar es Salaam College), Dip in Adult Education and Community Development – (I.A.E), Grade A Teachers Certificate – (Kasulu T.T.C).

Head of Industrial Liason and Career Guidance Unit

Mr. Alex R. Butogo – MSc Procurement and Supply Chain Management-(MU), Advanced Diploma in Freight Clearing and Forwarding-(NIT), Member of CILT & TARA.

Head of Logistics and Transport Studies Department (LTS)

Dr Prosper S. Nyaki - PhD in Transportation Engineering (UDSM), MSc. in Geo-Information Science in Urban Planning and Management – (Netherlands), ADTM – (NIT), DAE – (NIT), MCILT – (UK).

Examination Coordinator of Logistics and Transport Studies Department (LTS)

Mr Godlisten Msumanje - MSc. LTM - (NIT), BLTM – (NIT)

Mr. Cathbert Mayange - MSc. in International Logistics and Transport – (UDSM), BFCF – (NIT), Dip in Education– (Marangu T.T.C).

Head of Transport Engineering and Technology Department (TET)

Dr. John N.P.D. Mahona – PhD in Energy Eng – (UDSM), MEM – (UDSM), BSc. in Mech Engineering – (UDSM).

Examination Coordinator of Transport Engineering and Technology Department (TET)

Mr. Walter S. Maanga - B. Eng Electronics and Communication (SJUT).

Head of Library and Information Studies Department (LIS)

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Workshop Production Supervisor

Mr. Jeferson B. Maisson – B. Eng. Mechanical (DIT), Diploma in Automotive Engineering (Arusha Tech.).

Head of Transport Safety and Environmental Studies Department (TSES)

Mr. Patrick O. Makule -BAE – (NIT), Dip. Auto. Eng. – (NIT), FTC in Mech. Eng. – (Mbeya Tech.), Cert. in Electronic Control Fuel Injection and Automatic Gearbox – (Nakawa-Uganda).

Assistant Head Transport Safety and Environmental Studies Department (TSES)

Ms Lidya - MSc. Environmental Technology and Management – (ARU), BSc. Environmental Laboratory Science and Technology (ARU), Dipl. Education (Morogoro T.T.C)

Head of Mathematics, Humanities and Social Sciences Department (MHSS)

Dr. Laurencia N. Massawe – PhD in Mathematical Modelling- (OUT), Msc. in Mathematical Modelling- (UDSM), B. Ed Mathematics- (OUT).

Examination Coordinator of Mathematics, Humanities and Social Sciences Department (MHSS)

Mr. Aristides Angelo - MA Education – (UDSM), BEd Linguistic-(UDSM), Cert. in Education - (Katoke TTC).

Mr. Ambakisye Mwasunga – MA Education – (UDSM), B. Ed in Mathematics – (TUICo), Dip in Education – (Dar Es Salaam TTC).

Head of Computing and Communications Technology Department (CCT)

Dr. Angela-Aida K. Runyoro – PhD in Information Communication Science and Engineering – (NM-AIST), MSc. in Computer Science – (UDSM), BSc. Electrical Engineering – (UDSM), PGD in Managerial Control and Management Information Systems (MSM - Netherlands), IT Governance – (KDi - Singapore).

Examination Coordinator of Computing and Communications Technology Department (CCT)

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Head of Centre for Professional Development (CPD)

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Assistant Head of Centre for Professional Development (CPD)

Mr. Romanus Mapunda - Master of International Business – (UDSM), BBA – (UDOM), Cert in East African Customs Clearing and Freight Forwarding Practicing – (ITA)

Head of Department of Business and Entrepreneurship Studies (BES)

CPSP Dr. Deus N. Shatta – PhD. in Procurement – (OUT), MBA in Transport and Logistics Management – (OUT), MSc. PSCM - (MU), CPSP (PSPTB), PGDE - (UOA), PGDSC - (UDSM), ADTM, DAE, - (NIT), International Certificate in Humanitarian Logistics - (Kuhne - Stiftung, Switzerland).

Examination Coordinator of Department of Business and Entrepreneurship Studies (BES)

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Mr. Mamboleo Seif – MBA Finance – (Cardiff Metropo Litan University, London), Postgraduate in Finance – (Bangalore Management Academy), Bachelor of Business Management – (Bangalore Management Academy).

Principal School of Aviation Technology

Mr. Denis Mwangeni - MBA – (OUT), Bachelor’s Tourism Management – (SUA), Cabin Crew – (ATC).

Head of Department of Aeronautical Engineering

Dr. Benjamin W. Ndimila – PhD Production Engineering – (UDSM), MSc. Mechanical Engineering- (Khankor State Automobile and Highway Technical University, Ukraine), F.T.C. Mechanical Engineering – (DIT). Member ERB. Registered Professional Mechanical Engineering.

Examination Coordinator

Mr. Isaya Kephace – Bachelor of Engineering in Electronics and Telecommunication Engineering - (DIT)

Head of Department of Flying and Operations Management

Mr. Phabian Mongo - Bachelor’s Degree in Logistics and Transport Management – (NIT), Accounting Technician Certificate – (NBAA), Flight Operations Officer / Flight Dispatcher Certificate (TCAA-CATC).

Deputy Rector Planning, Finance and Administration

Dr. Zainabu M. Mshana – PhD Development Studies – (UDOM), MA Development Studies – (UDSM), BSc. Agriculture General – (SUA).

Ag. Head of Planning Unit

Ms. Lilian Mnengo - MBA Finance – (LSC), B.Com. Finance – (UDSM).

Heads of Unit under Administration Directorate

Head of Human Resources and Administration Department

Ms. Joyce Bakari - MSc. HRM – (MU), BBA – (MU).

Principal Human Resource I

Mr. Izukanji R. Simwanga – MBA – (MU), Adv. Dip. Social Work (ISW).

Heads of General Administration

Ms. Husna A. John - MSc. HRM – (MU), B.A. HRM – (KIU - Uganda).

Ms. Grace W. Makungu - MSc. HRM-(OUT),B.HRM – (ISW),

Mr. Ally Msuya - B. in Sociology – (UDSM).

Head of Finance Department

CPA William R. Haji – CPA – (T), MBA - (UDSM), B. Com – (UDSM).

Head of Revenue Section

Mr. Ramadhani Komba - MSc. PSCM– (MU), PGD PSCM – (NIT), ADCA – (Moshi Cooperative College), GPSP – PSPTB, CMILT.

Head of Dispensary Section

Dr. Mtimbe A. Mhango – MD- (IMTU), Dip in Clinical Medicine – (Mtwara – MC).

Staff Welfare and HIV Coordinator

Ms. Grace W. Makungu - MSc HRM-(OUT), B. HRM – (ISW),

Head of Estates Unit

Eng. Hamad Abdullah - MSc. in Civil Engineering – (Ukraine - USSR). BSc. in Civil Engineering – (Ukraine - USSR).

Transport Officers

Senior Transport Officer

Mr. Herman M. Kahyoza – MSc. A & F (MU), CPA(T) NBAA, Advanced Dip in Transport Management – (NIT).

Transport officer II

Charles J. Kalolo – DLTM – (NIT), CLTM – (NIT), IADTL- (CILT & DMI)

Head of Students Welfare Department (Dean of Students)

Mr. Abely P. Luzibila - M.A. Applied Social Psychology – (UDSM), B.A. Education – (UDSM).

HESLB Loans Coordinator

Mr. Libent M. Bankobeza - BEd – (UDSM), Diploma in Education – (Morogoro Teacher’s Collage), Cert. Education – (Morogoro Teacher’s Collage).

Students Welfare (Wardens)

Ms. Paulina S. Tarazo – B. A Sociology – (SAUT).

Mr. Meshack W. Kimaro – B.A Social Work – (ISW).

Ms. Happines L. Mremi – BA. Ed – (UDOM).

Mr. Anaklet M William – BA. Ed – (SAUT).

Ms. Ellen J. Kalinga – BA. Ed - (UDOM).

Ms. Halima S. Mloly - BA. Arts (UDSM).

Games Tutor

Mr. Augustino H. Saqware - B. Ed Physical Education Sports and Culture – (UDSM).

2.3. RESPONSIBILITIES OF UNITS UNDER THE RECTOR'S OFFICE

2.3.1. Planning Unit

The unit is responsible for co-ordination and supervision of the Institute's planning activities. Currently, it is guided through the corporate Strategic Plan. It is also responsible for formulating fund raising strategies and for initiation of other activities for improvement and betterment of the Institute.

2.3.2. Public Relations Unit

Duties of this unit are to plan, implement and control public relations activities. The activities are aimed at publicizing the Institute's image and services with a view of boosting its reputation and winning confidence of its stakeholders within and outside the Country.

2.3.3. Auditing Unit

The Office of Internal Audit provides independent, objective assurance and auditing, and investigative services designed to add value, improve internal controls and strengthen the operations of the Institute. Internal Audit helps the Institute to accomplish its objectives by bringing a systematic, disciplined approach to evaluate and improve the effectiveness of risk management, control, and compliance processes. The "independence" of Internal Audit means that its activities are conducted in a manner free from conditions that threaten its ability to carry out its responsibilities in an unbiased manner.

2.3.4. Quality Control and Quality Assurance Unit

The Unit is responsible for steering the implementation of NIT Quality Control and Quality Assurance policies. The policies are aimed at guiding the Institute in its efforts and aspirations as a training Institution. The policies also aim to deliver high quality education and training, carry out research and consultancy services in the field of logistics, management and transport.

3.0. PROGRAMMES OFFERED AT THE INSTITUTE

The Institute conducts different long course programmes including those which follow the National Technical Awards (NTA) system. Further, the Institute conducts number of postgraduate programmes. The Institute also conducts different professional short courses.

3.1. PROGRAMMES UNDER NTA SYSTEM

These are Competence Based Education and Training (CBET) programmes. The philosophy behind these programmes is Competence-Based Education and Training (CBET) approach. It is reflected in clearly defined programme learning outcomes and supported by well-organized Instructional and Credentialing Systems.

The learning outcomes are geared towards producing graduates who are well equipped with knowledge, skills and attitudes in a specified occupational activity. Programmes conducted under this system are:

3.2 LONG COURSES ADMISSION REQUIREMENTS

3.2.1. BASIC TECHNICIAN CERTIFICATE (NTA LEVEL 4) PROGRAMMES

| S/ NO. | NAME OF PROGRAMME | ENTRY QUALIFICATIONS | PROGRAMMES/ DURATION |
|--------|---|--|----------------------|
| 1. | Basic Technician Certificate in Logistics and Transport Management | Minimum four (04) passes at D grade in any subjects excluding religious subjects in CSEE; OR Form IV with at least two passes excluding religious subjects plus National Vocational Technical Award Level 3/ Trade Test grade I in the related field of study | 1 year |
| 2. | Basic Technician Certificate in Freight Clearing and Forwarding | | |
| 3. | Basic Technician Certificate in Procurement and Logistics Management | | |
| 4. | Basic Technician Certificate in Marketing and Public Relations | | |
| 5. | Basic Technician Certificate in Human Resources Management | | |
| 6. | Basic Technician Certificate in Accounting and Transport Finance | Minimum four (04) passes at D grade in any subjects including pass in Basic Mathematics excluding religious subjects in CSEE; OR Form IV with at least two passes excluding religious subjects plus National Vocational Technical Award Level 3/ Trade Test grade I in the related field of study | 1 year |
| 7. | Basic Technician Certificate in Business Administration | | |
| 8. | Basic Technician Certificate in Automobile Engineering | Minimum four (04) passes at D grade in any subjects including passes in Basic Mathematics, Physics or Engineering Science and English Language, excluding religious subjects in CSEE; OR Form IV with at least two passes excluding religious subjects plus National Vocational Technical Award Level 3/ Trade Test grade I | |
| 9. | Basic Technician Certificate in Auto-electrical and Electronic Engineering | | |
| 10. | Basic Technician Certificate in Electronics and Telecommunication Engineering | | |
| 11. | Basic Technician Certificate in Electrical Engineering | Minimum four (04) passes at D grade in any subjects including passes in Basic Mathematics, Physics or Engineering Science, Chemistry and English Language, excluding religious subjects in CSEE | 1 year |

| S/ NO. | NAME OF PROGRAMME | ENTRY QUALIFICATIONS | PROGRAMMES/ DURATION |
|-----------|---|---|-------------------------|
| 12. | Basic Technician Certificate in Information and Communication Technology | Minimum four (04) passes at D grade in any subjects including passes in Basic Mathematics and English Language excluding religious subjects in CSEE; OR Form IV with at least two passes excluding religious subjects plus National Vocational Technical Award Level 3/ Trade Test grade I | 1 year |
| 13. | Basic Technician Certificate in Mechanical Engineering | Minimum four (04) passes in any subjects including passes in Basic Mathematics, Engineering Science and English language excluding religious subjects in CSEE in CSEE; OR Form IV with at least two passes excluding religious subjects plus National Vocational Technical Award Level 3/ Trade Test grade I | 1 year |
| 14. | Basic Technician Certificate in Aircraft Maintenance Engineering | Minimum of four (04) passes in any subjects (including passes in Basic Mathematics, Physics, Engineering Science, Chemistry and English) excluding religious subjects in CSEE | 1 year |
| 15. | Basic Technician of Certificate in Library and Information Studies | Minimum four (04) passes at D grade in any subjects excluding religious subjects in CSEE; OR | 1 year |
| 16. | Basic Technician of Certificate in Records, Archives and Information Management | Form IV with at least two passes excluding religious subjects plus National Vocational Technical Award Level 3/ Trade Test grade I; OR any other but equivalent in the related field | |
| 17. | Basic Technician Certificate in Shipping and Port Logistics Operations | Minimum four (04) passes at D grade in any subjects excluding religious subjects in CSEE; OR | 1 year |
| 18. | Basic Technician Certificate in Road and Railway Transport Logistics Operations | Form IV with at least two passes excluding religious subjects plus National Vocational Technical Award Level 3/ Trade Test grade I in the related field of study | |
| 19. | Basic Technician Certificate in Shipbuilding and Repair | Minimum four (04) passes at D grade in any subjects including passes in Basic Mathematics, Physics or Engineering Science, Chemistry and English Language, excluding religious subjects in CSEE; | 1 year |
| 20 | Basic Technician Certificate in Pipe works, Oil and Gas Engineering. | | |

| S/ NO. | NAME OF PROGRAMME | ENTRY QUALIFICATIONS | PROGRAMMES/ DURATION |
|-----------|---|---|-------------------------|
| 21 | Basic Technician Certificate in Civil and Transportation Engineering | Minimum four (04) passes at D grades in any subjects including passes in Physics or Engineering Science, Basic Mathematics, Chemistry, and English, excluding religious subject in CSEE; OR Form IV with at least two passes must include Basic Mathematics and excluding religious subjects plus National Vocational Award Level 3 in Engineering related field of study. | 1 year |
| 22 | Basic Technician Certificate in Mechanical Engineering and Railway Vehicle Technology | Minimum four (04) passes at D grades in any subjects including passes in Physics or Engineering Science, Basic Mathematics, Chemistry, and English, excluding religious subject in CSEE; OR Form IV with at least two passes must include Basic Mathematics and excluding religious subjects plus National Vocational Award Level 3 in Engineering related field of study. | 1 year |
| 23 | Basic Technician Certificate in Automobile Engineering and Locomotive Technology | Minimum four (04) passes at D grades in any subjects including passes in Physics or Engineering Science, Basic Mathematics, Chemistry, and English, excluding religious subject in CSEE; OR Form IV with at least two passes must include Basic Mathematics and excluding religious subjects plus National Vocational Award Level 3 in Engineering related field of study. | 1 year |
| 24 | Basic Technician Certificate in Electrical and Railway Electrification Engineering | Minimum four (04) passes at D grades in any subjects including passes in Physics or Engineering Science, Basic Mathematics, Chemistry, and English, excluding religious subject in CSEE; OR Form IV with at least two passes must include Basic Mathematics and excluding religious subjects plus National Vocational Award Level 3 in Engineering related field of study. | 1 year |
| 25 | Basic Technician Certificate in Telecommunication and Railway Signalling Engineering | Minimum four (04) passes at D grades in any subjects including passes in Physics or Engineering Science, Basic Mathematics, Chemistry, and English, excluding religious subject in CSEE; OR Form IV with at least two passes must include Basic Mathematics and excluding religious subjects plus National Vocational Award Level 3 in Engineering related field of study. | 1 year |

CSEE = Certificate of Secondary Education Examinations.

3.2.2. ORDINARY DIPLOMA (NTA LEVEL 5-6) PROGRAMMES

| S/ NO. | NAME OF PROGRAMME | ENTRY QUALIFICATIONS | PROGRAMMES/ DURATION |
|-----------|--|---|-------------------------|
| 1. | Ordinary Diploma in Logistics and Transport Management | Basic Technician Certificate (NTA Level 4) in Logistics and Transport Management from NACTE recognized Institutions OR Form six with at least one (01) principal Pass and one subsidiary pass of the combination subjects in ACSEE | 2 years |
| 2. | Ordinary Diploma in Freight Clearing and Forwarding | Basic Technician Certificate (NTA Level 4) in Freight Clearing and Forwarding from NACTE recognized Institutions OR Form six with at least one principal Pass or one subsidiary pass of the combination subjects in ACSEE | 2 years |
| 3. | Ordinary Diploma in Automobile Engineering | Basic Technician Certificate (NTA Level 4) in Automobile Engineering from NACTE recognized Institutions OR Form six with at least one principal Pass and one subsidiary pass of the combination subjects in ACSEE | 3 years |
| 4. | Ordinary Diploma in Information Technology | Basic Technician Certificate (NTA Level 4) in Information and Communication Technology from NACTE recognized Institutions OR Form six with at least one principal Pass and one subsidiary pass of the combination subjects in ACSEE | 2 years |
| 5. | Ordinary Diploma in Mechanical Engineering | Basic Technician Certificate (NTA Level 4) in Mechanical Engineering from NACTE recognized Institutions OR Form six with at least one principal Pass and one subsidiary pass of the Science combination subjects in ACSEE (Including Advanced Mathematics and Physics) | 3 years |
| 6. | Ordinary Diploma in Procurement and Logistics Management | Basic Technician Certificate (NTA Level 4) from NACTE recognized Institutions OR Form six with at least one principal Pass and one subsidiary pass of the combination subjects in ACSEE | 2 years |
| 7. | Ordinary Diploma in Human Resources Management | Basic Technician Certificate (NTA Level 4) from NACTE recognized Institutions OR Form six with at least one principal Pass and one subsidiary pass of the combination subjects in ACSEE | 2 years |

| S/ NO. | NAME OF PROGRAMME | ENTRY QUALIFICATIONS | PROGRAMMES/ DURATION |
|-----------|---|--|-------------------------|
| 8. | Ordinary Diploma in Business Administration | Basic Technician Certificate (NTA Level 4) from NACTE recognized Institutions | 2 years |
| 9. | Diploma in Accounting and Transport Finance | OR Form six with at least one principal Pass and one subsidiary pass of the combination subjects in ACSEE | |
| 10. | Ordinary Diploma in Marketing and Public Relations | Basic Technician Certificate (NTA Level 4) from NACTE recognized Institutions OR Form six with at least one principal Pass and one subsidiary pass of the combination subjects in ACSEE | |
| 11. | Ordinary Diploma in Aircraft Maintenance Engineering | Basic Technician Certificate (NTA Level 4) in Aircraft Maintenance/ Mechanical/ Automobile/ Mechatronics/ Engineering from NACTE recognized Institutions OR Form six with at least one principal pass and one subsidiary pass of the related combination (Advanced Mathematics and Physics) | 3 years |
| 12. | Ordinary Diploma in Auto-Electrical and Electronics Engineering | CSEE with a minimum of four (4) passes of "D" grades in Physics or Engineering Science, Basic Mathematics, Chemistry, and English; OR CSEE with minimum pass of "D" grade in two subjects mentioned above which must include Basic Mathematics and National Vocational Award Level 3 in Auto - Electrical and Electronics; OR Basic Technician Certificate (NTA Level 4) in related field recognized by NACTE; OR Technician Certificate (NTA Level 5) in related field recognized by NACTE | 3 years |
| 13 | Ordinary Diploma in Electronics and Telecommunication Engineering | (CSEE) with a minimum of four (4) passes of "D" grades in Physics or Engineering Science, Basic Mathematics, Chemistry, and English; OR Basic Technician Certificate (NTA Level 4) in related field recognized by NACTE OR Technician Certificate (NTA Level 5) in related field recognized by NACTE | 3 years |

| S/ NO. | NAME OF PROGRAMME | ENTRY QUALIFICATIONS | PROGRAMMES/ DURATION |
|-----------|---|--|-------------------------|
| 14. | Ordinary Diploma in Electrical Engineering | Basic Technician Certificate (NTA Level 4) in related field recognized by NACTE OR Technician Certificate (NTA Level 5) in related field recognized by NACTE; OR Certificate of Secondary Education Examinations CSEE with a minimum of four (4) passes of “D” grades in Physics or Engineering Science, Basic Mathematics, Chemistry and English. | 3 years |
| 15. | Ordinary Diploma in Library and Information Studies | Basic Technician Certificate (NTA Level 4) in Library and Information Studies from NACTE recognized Institutions; OR Form six with at least one principal pass excluding religious subject in ACSEE; OR Any other but equivalent qualification in related field. | 2 years |
| 16 | Ordinary Diploma in Records, Archives and Information Management | Basic Technician Certificate (NTA Level 4) in Records, Archives and Information Management from NACTE recognized Institutions; OR Form six with at least one principal pass excluding religious subject in ACSEE; OR Any other but equivalent qualification in related field. | 2 years |
| 17 | Ordinary Diploma in Shipping and Port Logistics Operations | Basic Technician Certificate (NTA Level 4) in Shipping and Port Logistics Operations from NACTE recognized Institutions or Form six with at least one (01) principal Pass and one subsidiary pass of the combination subjects in ACSEE. | 2 years |
| 18 | Ordinary Diploma in Road and Railway Transport Logistics Operations | Basic Technician Certificate (NTA Level 4) in Road and Railway Transport Logistics Operations from NACTE recognized Institutions OR Form six with at least one (01) principal Pass and one subsidiary pass of the combination subjects in ACSEE. | 2 years |
| 19 | Ordinary Diploma in Shipbuilding and Repair | CSEE with a minimum of four (4) passes of “D” grades in Physics or Engineering Science, Basic Mathematics, Chemistry, and English; OR CSEE with minimum pass of “D” grade in two subjects mentioned above which must include Basic Mathematics and National Vocational Award Level 3 in Shipbuilding and Repair Operations OR Basic Technician Certificate (NTA Level 4) in related field recognized by NACTE; OR Technician Certificate (NTA Level 5) in related field recognized by NACTE | 3 years |

| S/ NO. | NAME OF PROGRAMME | ENTRY QUALIFICATIONS | PROGRAMMES/ DURATION |
|-----------|---|---|-------------------------|
| 20 | Ordinary Diploma in Pipeworks, Oil and Gas Engineering | CSEE with a minimum of four (4) passes of “D” grades in Physics or Engineering Science, Basic Mathematics, Chemistry, and English; OR CSEE with minimum pass of “D” grade in two subjects mentioned above which must include Basic Mathematics and National Vocational Award Level 3 in Oil and Gas; OR Basic Technician Certificate (NTA Level 4) in related field recognized by NACTE; OR Technician Certificate (NTA Level 5) in related field recognized by NACTE | 3 years |
| 21 | Ordinary Diploma in Civil and Transportation Engineering | Technician Certificate (NTA Level 5) in Civil and Transportation Engineering or equivalent qualification related field recognized by NACTE. | 3 years |
| 22 | Ordinary Diploma in Mechanical Engineering and Railway Vehicle Technology | Technician Certificate (NTA Level 5) in Mechanical Engineering and Railway Vehicle Technology or equivalent qualification in related field recognized by NACTE. | 3 years |
| 23 | Ordinary Diploma in Automobile Engineering and Locomotive Technology | Technician Certificate (NTA Level 5) in Automobile Engineering and Locomotive Technology or equivalent qualification in related field recognized by NACTE. | 3 years |
| 24 | Ordinary Diploma in Electrical and Railway Electrification Engineering | Technician Certificate (NTA Level 5) in Electrical and Railway Electrification Engineering or equivalent qualification in related field recognized by NACTE. | 3 years |
| 25 | Ordinary Diploma in Telecommunication and Railway Signalling Engineering | Technician Certificate (NTA Level 5) in Telecommunication and Railway Signalling Engineering or equivalent qualification in related field recognized by NACTE. | 3 years |

ACSEE = Advanced Certificate of Secondary Education Examination.

3.2.3. BACHELOR'S DEGREE (NTA LEVEL 7-8) PROGRAMMES

| S/ NO. | NAME OF PROGRAMME | ENTRY QUALIFICATIONS | PROGRAMMES/ DURATION |
|--------|---|---|----------------------|
| 1. | Bachelor's Degree in Information Technology | Two (2) Principal passes ACSE in combination subjects other than religious subjects with a total of 4.0 points; OR Diploma (NTA Level 6) in ICT or related field with at least GPA of 3.0 class plus four passes in the CSEE. | 3 years |
| 2. | Bachelor's Degree in Logistics and Transport Management | Two principal passes in ACSEE in any subjects excluding religious subjects with an aggregate of 4.0 points; OR Ordinary Diploma (NTA Level 6) in Logistics and Transport Management with at least GPA of 3.0 class plus four passes in the CSEE; OR Non-NTA Diploma with at least GPA of 3.0 Class or a B grade; OR Diploma in Education with an average of at least a C grade including four (04) passes in CSEE excluding religious subjects. | 3 years |
| 3. | Bachelor's Degree in Procurement and Logistics Management | Two (2) principal passes in ACSEE in any subjects excluding religious subjects with a total of 4.0 points; OR Diploma (NTA Level 6 or Non-NTA) in relevant field with at least GPA of 3.0 class, plus four passes in the CSEE excluding religious subjects; OR Possession of Diploma in Teacher Education with an average of at least 3.0 GPA or average of B grade including four (4) passes in CSEE excluding religious subjects; OR Full Technician Certificate (FTC) with an average of C grade | 3 years |
| 4. | Bachelor's Degree in Human Resources Management | | |
| 5. | Bachelor's Degree in Business Administration | Two (2) principal passes in ACSEE in any subjects excluding religious subjects with a total of 4.0 points; OR Diploma (NTA Level 6 or Non-NTA) in relevant field with at least GPA of 3.0 class, plus four passes including pass in Basic Mathematics in the CSEE excluding religious subjects; OR Possession of Diploma in Teacher Education with an average of at least 3.0 GPA or average of B grade including four (4) passes in CSEE excluding religious subjects; OR Full Technician Certificate (FTC) with an average of C grade. | 3 years |

| S/ NO. | NAME OF PROGRAMME | ENTRY QUALIFICATIONS | PROGRAMMES/ DURATION |
|--------|---|---|----------------------|
| 6. | Bachelor's Degree in Automobile Engineering | Two (02) Principal passes in ACSEE in science combination subjects; Advanced Mathematics, Physics and Chemistry or Geography with an aggregate of 4.0 points including four (04) passes in CSEE including passes in Basic Mathematics, Physics or Engineering science and English Language; OR Ordinary Diploma (NTA Level 6) in Automobile Engineering / Mechanical Engineering / Electrical Engineering / Marine Engineering or Technical Education with at least GPA of 3.0 Class and four (04) passes in CSEE excluding religious subjects FTC from a recognized Institution, with an average of C grade. | 4 years |
| 7. | Bachelor's Degree in Mechanical Engineering | | |
| 8. | Bachelor's Degree in Aircraft Maintenance Engineering | Two principal passes with 4.0 points in Mathematics, Physics or Chemistry at A level and at least passes in Mathematics or Engineering Science and English at O-Level excluding religious subjects; OR Diploma (NTA Level 6) with at least GPA of 3.0 class in Automobile/ Automotive/ Electrical/ Computer/ Civil/Civil and Transportation/ Electronics and Telecommunication/ Mining/ Electronics and Telecommunication with Computer/ Marine/ Building and Civil/ Hydrogeology and Water Well Drilling/Mechanical Engineering OR FTC with an average of at least C grade and four (4) passes in CSEE. | 4 years |
| 9. | Bachelor's Degree in Computer Science | Two (2) principal passes in ACSEE with 4.0 points including passes in Mathematics, Physics and English in CSEE excluding religious subjects; OR Ordinary Diploma (NTA Level 6) in Computer Science/Computing and Information Communication Technology/ Information Communication and Technology/ Information Technology with Accounting/ Information Technology/Computer Science and Engineering/Computer Applications/Electronics and Telecommunications with Industrial Auto/ Electronics and Telecommunications with Computer Engineering/Statistics/Electronics and Communications Engineering/Electronics and Telecommunication/Electronics and Telecommunication with Computer/Library Information System with at least GPA of 3.0 Class including passes in Mathematics, Chemistry and English in CSEE. | 3 years |

| S/ NO. | NAME OF PROGRAMME | ENTRY QUALIFICATIONS | PROGRAMMES/ DURATION |
|-----------|---|---|-------------------------|
| 10. | Bachelor's Degree in Accounting and Transport Finance | Two (2) principal passes with 4.0 points in the ACSEE excluding religious subjects; OR Diploma (NTA Level 6) with at least 3.0 GPA in Accounting and Transport Finance/Procurement and Logistics Management/Logistics and Transport Management/Freight Clearing and Forwarding/Business Administration/Police Science/Automobile/Electrical/Computer/Civil/Civil and Transportation/Electronics and Telecommunication/Mining/Automotive/ Electrical and Electronics/ Automotive and Mechanical/Mineral Processing/Building and Civil/Civil Engineering and Community Development/Electronics and Telecommunication with Computer/Marine/Mechanical Engineering/ Information and Communication Technology/ Diploma in Education/Non-NTA Diploma with at least a GPA of 3.0 class or a B grade or FTC with an average of at least C grade and four (4) passes in CSEE including pass in Basic Mathematics. | 3 years |
| 11. | Bachelor's Degree in Marketing and Public Relations | Two (2) principal with at least 4.0 points passes in the ACSEE excluding religious subjects; OR Lower Second Class Diploma (NTA Level 6) in Marketing and Public Relations/Procurement and Logistics Management/Logistics and Transport Management/Freight Clearing and Forwarding/Business Administration/Police Science/Automobile/Electrical/Computer/Civil/Civil and Transportation/Electronics and Telecommunication/Mining/Automotive/ Electrical and Electronics/Automotive and Mechanical/Mineral processing/Building and Civil/Civil engineering and Community Development/Electronics and Telecommunication with Computer/Marine/Mechanical Engineering/ Information and Communication Technology/ OR Diploma in Education/Non-NTA Diploma with at least a GPA of 3.0 class or a B grade /FTC with an average of at least C grade and four (4) passes in CSEE. | 3 years |

| S/ NO. | NAME OF PROGRAMME | ENTRY QUALIFICATIONS | PROGRAMMES/ DURATION |
|--------|--|---|----------------------|
| 12. | Bachelor's Degree in Education with Mathematics and Information Technology | Two (2) Principal passes in the ACSEE including pass in advanced Mathematics, Information Technology or Physics, Chemistry, Geography, Economics and passes in Mathematics and English in CSEE excluding religious subjects with a total of 4.0 points; OR Related Diploma in Education (NTA Level 6) with at least GPA of 3.0; OR B grade with specialization in Mathematics and Information Technology/ Computing and Information Communication Technology/Information Communication and Technology/Information Technology with Accounting/Information Technology/Computer Science/Computer Applications/Electronics and Telecommunications with Industrial Auto/ Electronics and Telecommunications with Computer Engineering/Statistics/Electronics and Communications Engineering Electronics and Telecommunication with Computer/ Library Information System. | 3 years |
| 13. | Bachelor's Degree in Shipping and Port Logistics Management | Two principal passes in ACSEE in any subjects excluding religious subjects with an aggregate of 4.0 points; OR Ordinary Diploma (NTA Level 6) in Shipping and Port Logistics Management with at least GPA of 3.0 class plus four passes in the CSEE; OR Non-NTA Diploma with at least GPA of 3.0 Class or a B grade; OR Diploma in Education with an average of at least a C grade including four (04) passes in CSEE excluding religious subjects. | 3 years |
| 14 | Bachelor's Degree in Road and Railway Transport Logistics Management | Two principal passes in ACSEE in any subjects excluding religious subjects with an aggregate of 4.0 points; OR Ordinary Diploma (NTA Level 6) in Road and Railway Transport Logistics Management with at least GPA of 3.0 class plus four passes in the CSEE; OR Non-NTA Diploma with at least GPA of 3.0 Class or a B grade; OR Diploma in Education with an average of at least a C grade including four (04) passes in CSEE excluding religious subjects. | 3 years |
| 15 | Bachelor's Degree in Naval Architecture and Marine Engineering | Two principal passes in ACSEE in Advanced Mathematics and Physics / Chemistry with an aggregate of 4.0 points; OR Higher Diploma in Naval Architecture and Marine Engineering (NTA Level 7) with a minimum GPA of 2.0 or higher or the like. OR Ordinary Diploma in Shipbuilding and Repair/Naval Architecture/ Marine Engineering/ Mechanical (NTA Level 6) with at least an overall GPA of 3.0 from a recognized Institution and the like, | 3 years |

Key:

ACSEE= Advanced Certificate of Secondary Education Examinations.

CSEE= Certificate of Secondary Education Examinations.

3.2.4. INTERNATIONAL LOGISTICS AND TRANSPORT PROGRAMMES

| S/ NO. | NAME OF PROGRAMME | ENTRY QUALIFICATIONS | PROGRAMMES/ DURATION |
|--------|---|--|----------------------|
| 1. | International Introductory Certificate in Logistics and Transport | Two (02) passes in CSEE in any subjects excluding religious subjects. | 2 Months |
| 2. | International Certificate in Logistics and Transport | Three (03) passes in the CSEE in any subjects excluding religious subjects. Holders of International Introductory Certificate in Logistics and Transport | 6 Months |
| | | Managers and Supervisors with at least one-year experience in the industry | |
| 3. | International Diploma in Logistics and Transport | CILT International Certificate in Logistics and Transport | 12 Months |
| | | Managers and Supervisors with at least two years' experience in the industry | |
| 4. | International Advanced Diploma in Logistics and Transport | International Diploma in Logistics and Transport | 24 Months. |

CILT = Chartered Institute of Logistics and Transport

ACSEE= Advanced Certificate of Secondary Education Examinations

CSEE= Certificate of Secondary Education Examinations.

3.2.5. POSTGRADUATE PROGRAMMES

| S/ NO. | NAME OF PROGRAMME | ENTRY QUALIFICATIONS | PROGRAMMES/ DURATION |
|--------|---|---|----------------------|
| 1. | Post Graduate Diploma in Air Transport Management | Advanced Diploma or Bachelor's Degree in any field of study from recognized Institutions | 1 year |
| 2. | Post Graduate Diploma in Logistics and Transport Management | Advanced Diploma or Bachelor's Degree in any field of study from recognized Institutions. | 1 year |
| 3. | Post Graduate Diploma in Transport Economics | | |
| 4. | Post Graduate Diploma in Transport and Tourism Management | Advanced Diploma or Bachelor's Degree in any field of study from recognized Institutions. | 1 year |
| 5. | Post Graduate Diploma in Shipping and Ports Management | Advanced Diploma or Bachelor's Degree in any field of study from recognized Institutions. | 1 year |
| 6. | Post Graduate Diploma in Procurement and Logistics Management | Advanced Diploma or Bachelor's Degree in any field of study from recognized Institutions; OR Full professional or equivalent qualifications in relevant field of study; Holders of any Procurement/Supply chain/Logistics/Transport professional qualification issued by any professional organization recognized as such by the Government of Tanzania. | 1 year |

| S/ NO. | NAME OF PROGRAMME | ENTRY QUALIFICATIONS | PROGRAMMES/ DURATION |
|-----------|--|--|-------------------------|
| 7. | Postgraduate Diploma in Rail Transport Management (PGDRTM) | Advanced Diploma or Bachelor's Degree in any field of study from a recognized Institution. | 1 year |
| 8. | Postgraduate Diploma in Road Transport Safety Management (PGRSM) | Bachelor's Degree or Advanced Diploma in related field of study from a recognized institution. | 1 year |
| 9. | Postgraduate Diploma in Transportation Engineering (PGT Eng) with specialization in: 9.1 Airport Engineering 9.2 Rail and Rolling Stock Engineering 9.3 Railway Engineering 9.4 Dock and Harbor Engineering 9.5 Port Handling Equipment and Machinery 9.6 Pipeline Systems Engineering | Bachelor's Degree or Advanced Diploma in related field of study from recognized institution. | 1 year |
| 10. | Master of Business Administration Logistics and Transport Management | Bachelor's Degree from a recognized Institution, OR Advanced Diploma with a postgraduate Diploma in a relevant field. | 2 years |
| 11. | Masters of Science in Logistics and Transport Management | | |
| 12. | Masters of Mechanical Engineering with Transportation Machinery | Bachelor's Degree in Mechanical/Automobile/Rolling-Stock/Pipeline/Aircraft Maintenance Engineering/Naval & Marine/Aerounatical Engineering OR Relevant Engineering field | 2 years |

3.3. PROFESSIONAL DRIVING SHORT COURSES AND ENTRY REQUIREMENT

| S/ NO. | NAME OF PROGRAMME | ENTRY QUALIFICATIONS | PROGRAMMES/ DURATION |
|--------|---|--|----------------------|
| 1. | Advanced Drivers' Course Grade II – INDUSTRIAL | Possession of primary education or above and be able to read and write in both English and Kiswahili. | 4 weeks |
| | | Possession of driving licence Class E or C or C1 with at least two year driving experience | |
| 2. | Advanced Drivers' Course Grade II – VIP | Possession of primary education or above and be able to read and write in either English or Kiswahili | 4 weeks |
| | | Possession of driving licence Class E with at least one year driving experience | |
| 3. | Advanced Drivers' Course Grade I | Possession of primary education or above and be able to read and write in either English or Kiswahili | 4 weeks |
| | | Possession of driving licence Class E or C or C1 with at least two years driving experience | |
| | | Possession of Advanced Drivers Certificate Grade II from National Institute of Transport and having worked with it for at least one year | |
| 4. | Senior Drivers' Course | Possession of Certificate of Secondary Education Examination and be able to read and write in either English or Kiswahili | 6 weeks |
| | | Possession of Advanced Drivers' Grade One certificates from NIT or VETA and having worked with it for at least one year | |
| 5(a) | Public Service Vehicle (PSV) Drivers' Course – for C driving license | Possession of primary education or above and be able to read and write either English or Kiswahili. | 11 days |
| | | Possession of valid driving licence class E or C with not less than thirty (30) years of age. | |
| | | Possession of valid driving licence class C ₂ and having worked with it for at least three (03) years and age not less than thirty (30) years | |
| 5(b) | Public Service Vehicle (PSV) Drivers' Course – for C1 driving license | Possession of primary education or above and be able to read and write in either English or Kiswahili | 11 days |
| | | Possession of valid old driving licence class E or C | |
| | | Possession of valid driving licence class C2 and having worked with it for at least three years | |
| | | Age not less than twenty-seven (27) years | |

| S/ NO. | NAME OF PROGRAMME | ENTRY QUALIFICATIONS | PROGRAMMES/ DURATION |
|-----------|---|--|-------------------------|
| 5(c) | Public Service Vehicle (PSV) Drivers' Course – for C2 driving license | Possession of primary education or above and be able to read and write in both English and Kiswahili | 11 days |
| | | Possession of valid driving licence class E or C | |
| | | Possession of valid driving licence class C1 and having worked with it for at least three years | |
| | | Age - not less than twenty-four (24) years | |
| 5(d) | Public Service Vehicle (PSV) Drivers' Course – for C3 driving license | Possession of primary education or above and be able to read and write in either English or Kiswahili | 11 days |
| | | Possession of valid driving licence class E or C | |
| | | Possession of valid driving licence class D and having worked with it for at least three years | |
| | | Age - not less than twenty-one (21) years | |
| 6. | Driver Instructors' Course | Possession of Certificate of Secondary Education Examinations or above and be able to read and write in both English and Kiswahili | 11 weeks |
| | | Possession of Advanced Drivers Course Grade I from NIT and having worked with it for at least one year | |
| | | Possession of valid driving licence class E or C or C1 having worked with it for at least three (03) years | |
| 7. | Transport Officers' Course | Possession of Certificate of Secondary Education Examinations or above or any equivalent qualification and be able to read and write in both English and Kiswahili | 2 weeks |
| | | Possession of valid driving licence | |
| | | Be a Transport Officer or working in related activities in any Organization | |
| 8. | Vehicle Inspection | Possession of Certificate of Secondary Education Examinations or above or any equivalent qualification and be able to read and write in both English and Kiswahili | 15 weeks |
| | | Possession of Bachelor's Degree, Diploma or Trade Test grade I in Automobile/Mechanical Engineering | |
| | | Possession of valid driving licence | |

| S/ NO. | NAME OF PROGRAMME | ENTRY QUALIFICATIONS | PROGRAMMES/ DURATION |
|-----------|---------------------------|--|-------------------------|
| 9. | Transport Control Systems | Possession of Certificate of Secondary Education Examinations or above or any equivalent qualification and be able to read and write in both English and Kiswahili | 2 weeks |
| | | Be a Transport Officer or working on related activities in any Organization | |
| | | Possession of valid driving licence | |
| 10. | Driver Examiner | Possession of Certificate of Secondary Education Examinations or above or any equivalent qualification and be able to read and write both English and Kiswahili | 15 weeks |
| | | Possession of Bachelor's Degree, Diploma or Trade Test Grade I in Automobile Engineering | |
| | | Possession of valid driving licence | |
| 11. | Heavy Goods Vehicles | Possession of valid driving license at least E grade | 15 days |

3.4. SHORT COURSE - CABIN CREW INITIAL COURSE

| S/ NO. | NAME OF PROGRAMME | ENTRY QUALIFICATIONS | PROGRAMMES/ DURATION |
|-----------|----------------------|--|-------------------------|
| 1. | Cabin Crew | CSEE with four passes including English OR | 3 months |
| | | CSEE with and professional certificate in aviation, tourism and hospitality industry | |
| | | Ability to read, speak and write English and Swahili languages. | |
| | | Applicant should not be less than 18 years old | |
| | | Minimum height of 160cm (no maximum height limit) | |
| | | Competence in any other international language in an added advantage | |

3.5. OTHER SHORT COURSES OFFERED

- (i) Tyre Care and Maintenance,
- (ii) Radiopharmaceutical Shipments Handling Skills,
- (iii) Transport Officers' Seminars,
- (iv) Fleet Management in Road Transport Operations,
- (v) Diesel Engine Service and Maintenance,
- (vi) Airline Marketing Management,
- (vii) Transport Costing and Transport Statistical Analysis,
- (viii) Freight Forwarding Operations and Management,

- (ix) Customer Care for Passenger Transport Agents and Ticketing Clerks,
- (x) Vehicle Fleet Management and Maintenance,
- (xi) Fuel Management in Vehicle Operations,
- (xii) Dangerous Cargo Handling Skills,
- (xiii) Airport /Aviation Security Handling Skills,
- (xiv) Travel and Tourism Handling Skills,
- (xv) Airline/Airport Customer Care Handling Skills,
- (xvi) Road Safety Awareness,
- (xvii) Perishable Shipments Handling Skills,
- (xviii) Introductory Computing Programmes,
- (xix) Engine Overhaul (Petrol and Diesel),
- (xx) Cargo Tallying for International Shipping,
- (xxi) Electronic Fuel Injection (EFI),
- (xxii) Petrol Engine Service and Maintenance.

3.6. FUTURE PLANS

In future, the Institute is planning to offer the following programmes:-

- (i) Bachelor's Degree in Transportation Economics,
- (ii) Bachelor's Degree in Transportation Technology,
- (iii) Masters Degree in Transportation Planning and Economics,
- (iv) Masters Degree in Shipping and Port Logistics Management,
- (v) Masters Degree in Air Transport Management,
- (vi) Ordinary Diploma in Vehicle Inspection and Road Safety,
- (vii) Ordinary Diploma in Vehicle Inspection,
- (viii) Tailor-made courses in Aviation,
- (ix) Masters of Procurement and Logistics Management.

4.0. APPLICATION AND ADMISSION PROCEDURES

4.1. MODE OF APPLICATION

- (a) Applications for admission are done online through the link on NIT **website: www.nit.ac.tz** more information is available on this website,
- (b) Dully filled application forms should be returned to the Registrar's office accompanied with photocopies of relevant academic certificates, transcripts, birth certificate, names of sponsors and evidence of application fee payment as well as a passport size photograph attached on the form. Application forms without the mentioned documents will not be processed.

4.2. MODE OF PAYMENT

Payment of non-refundable application fee of 10,000 T.shs is done through the instructions provided in the electronic application form.

4.3. APPLICANTS FOR PROFESSIONAL DRIVING

- (a) Application forms are obtained at NIT Mabibo Campus at a non-refundable fee as prescribed by the Institute and indicated on the application form or the forms are downloaded from the Institute website **www.nit.ac.tz**, The money is payable at National Institute of Transport through control number.
- (b) Dully filled forms should be returned to the Registrar's office accompanied with evidence of fee payment, photocopies of driving licenses, Educational Certificates, Professional Driving Certificates (if any). Application forms without the mentioned support documents will not be processed.

5.0. REGISTRATION FOR LONG TERM COURSES

- (a) Registration duration for first year applicants selected to pursue long term courses is within the first two weeks of the academic year after they have paid the prescribed fee. Specifically, the deadline for registration for first year students is two weeks from the first day of the orientation week, while for continuing students it is the Friday of the second week after the beginning of the First Semester session of the respective academic years. Student who fails to register within the specified time period will lose the studentship status and be discontinued from studies. Every student shall report at the Institute at the beginning of the semester and on the prescribed date by the Institute. A student who fails to report within fourteen (14) days from the prescribed date shall lose the admission status.
- (b) During registration every student must produce and submit the following documents:
 - (i) A letter of admission and the joining instructions sent to him/her,
 - (ii) A dully filled acceptance form to abide by the Institute's Rules and Regulations,
 - (iii) A dully filled medical examination form,
 - (iv) All original Academic Certificates, Academic Transcripts, birth certificates, financial receipts for the money paid or bank slip of the money paid to the Institute through the designated bank accounts,
 - (v) Two recent passport size photographs taken not more than six months,
- (c) Foreign students are required to apply for residence permit from the nearest Tanzania Embassy or High Commission before they depart from their countries of origin to Tanzania.
- (d) Students who have been selected but cannot register at the Institute for any

reasons cannot defer the admission to the next academic year. Such students shall have to reapply.

- (e) Students who have postponed studies are required to report at the Institute at the beginning of a corresponding semester similar to that one she/he left the Institute.
- (f) No change of names by registered students shall be accepted during the period of study at the Institute. Names appearing on the original school certificates shall be used and maintained.
- (g) No student is allowed to change the course for which she/he has been registered. In very exceptional circumstances a student will be allowed to change the course not later than the Friday of the second week after the beginning of the first semester for the session of the first year.
- (h) No student is allowed to postpone studies after the commencement of an academic year except under exceptional circumstances. The permission to postpone the studies shall be approved by the Rector after satisfactory submission of evidence for the reasons to postpone studies and a written approval from the sponsor(s). A student who successfully postpones studies shall be away for a maximum of four semesters and shall resume studies at the level and semester that the student had left.
- (i) Students discontinued from studies based on unsatisfactory academic performance may be considered for readmission to a different programme in the following year. However, in order for students to enroll in the same programme as that they had been discontinued there shall be lapse of three years.
- (j) Students discontinued from studies based on disciplinary grounds shall be re-admitted to any programme at the Institute.

6.0. INSTITUTE'S RULES AND REGULATIONS

Upon being registered as a bonafide student at the Institute, each student is required to obtain and read thoroughly the Institute's rules and regulations. The Institute's rules and regulations are but not limited to those provided below:

- (a) Conditions for Government sponsorship (in case of Government sponsored students or Higher Education Students Loan Board),
- (b) Students By-Laws which govern the general welfare, conduct and discipline of each student while studying at the Institute,
- (c) Examination Rules and Regulations which govern academic conduct at the Institute.
- (d) Constitution of SONIT,
- (e) Field Work Training Regulations,
- (f) Library regulations,
- (g) Any other regulations issued by the Institute from time to time.

7.0. REGISTRATION FOR PROFESSIONAL DRIVING SHORT COURSES

- (a) Registration of successful applicants to pursue Professional Driving Short Courses at the Institute takes place within the first three (03) days after the start of the course. Professional driving course for Public Service Vehicles (Passengers) (PSV) are offered at the Institute at Mabibo Ubungo Campus and in Zonal Centers of Arusha, Dodoma, Mwanza, Kigoma and Mbeya. Other short courses are also offered at the Institute on request - (tailor-made courses),
- (b) Participants are required to bring and submit evidence of full payment of course fee as prescribed by the Institute before being registered. Upon production of evidence of application and course fee payment, applicants are also required to submit original Driving Licenses and copies of educational certificates and any other relevant copies of certificates as required by respective courses. Participants without the mentioned documents shall not be registered for the short courses at the Institute,
- (c) Short course participants who will experience social and health problems during the course are required to report in writing to the Head of Department of Transport Safety and Environmental Studies for further action.

8.0. PROFILE OF ACADEMIC DEPARTMENTS

The Academic Directorate has twelve departments namely: Academic Administration; Logistics and Transport Studies; Transport Engineering and Technology; Research, Publications and Postgraduate Studies; Computing and Communication Technology; Mathematics, Humanities and Social Sciences; Transport Safety and Environmental Studies; Centre for Professional Development, Business and Entrepreneurship Studies; School of Aviation Technology; National Transport Resource Centre; Consultancy and Production Bureau.

The departments are all geared to fulfill and promote the Institute's academic goals, within the context of the Institute's established objectives.

8.1. ACADEMIC ADMINISTRATION DEPARTMENT

The Academic Administration Department is responsible for planning, organizing and administration of day to day Institute's academic activities. The Department has two major functional sections namely; Students Admissions and Examinations.

8.1.1. Activities performed under the Department of Academic Administration

- (a) Attending various Internal and external customers including students,
- (b) Admission and registration of short and long course students,
- (c) Dissemination of academic Data Information of students and other stakeholders,
- (d) Verification of documents from external stakeholders,
- (e) Coordinating graduation ceremony activities,
- (f) Issuing of Academic Transcripts and Certificates,
- (g) Liaising with other Institutions such as HESLB, NACTE, NECTA, TCU etc.,

- (h) Coordinating various committee meetings such as short course and examination meetings,
- (i) Coordinating Examinations activities.

8.2. LOGISTICS AND TRANSPORT STUDIES DEPARTMENT

The Department is responsible for providing education and training in Logistics and Transport Management, Freight Clearing and Forwarding, Shipping and Port Logistics Management and Road and Railways Transport Management programmes. Currently the Department conduct Bachelor’s Degree (NTA Level 7-8), Ordinary Diploma (NTA Level 6) and Certificate (NTA Level 4-5) Programmes training.

8.2.1. Bachelor’s Degree (NTA Level 7-8) Programme

8.2.1.1. Higher Diploma (NTA Level 7) in Logistics and Transport Management

(a) Purpose of the Qualification

This qualification is intended for a person who will plan, organize and control logistics in transport undertakings, manage company resources economically, analyze operational business environment and forecast future situation.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-------------------------------|-----------|
| Core Modules | | | |
| 1. | LTU 07101 | Road Transport Management | 12 |
| 2. | LTU 07102 | Managerial Accounting | 9 |
| 3. | LTU 07103 | Transport Statistics | 9 |
| 4. | LTU 07104 | Transport Safety and Security | 12 |
| Fundamental Modules | | | |
| 5. | GSU 07101 | Business Communication Skills | 9 |
| 6. | ITU 07101 | Information Technology | 9 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---------------------------------------|-----------|
| Core Modules | | | |
| 1. | LTU 07205 | Managerial Economics | 9 |
| 2. | LTU 07206 | Procurement Management | 9 |
| 3. | LTU 07207 | Human Resources Management | 9 |
| 4. | LTU 07208 | Transport Finance | 9 |
| 5. | LTU 07209 | Logistics and Supply Chain Management | 12 |
| 6. | LTU 07210 | Rail Transport Management | 9 |
| Fundamental Modules | | | |
| 7. | GСУ 07202 | Quantitative Methods | 9 |
| Total Credits | | | 66 |

SEMESTER III

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-------------------------------|-----------|
| Core Modules | | | |
| 1. | LTU 07301 | Transport Planning and Policy | 12 |
| 2. | LTU 07302 | Transport Economics | 9 |
| 3. | LTU 07303 | Industrial Training | 12 |
| 4. | LTU 07304 | Law of Business and Carriage | 9 |
| 5. | LTU 07305 | Maritime Transport Management | 9 |
| Fundamental Modules | | | |
| 6. | GСУ 07303 | Development Studies | 9 |
| Total Credits | | | 60 |

SEMESTER IV

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | LTU 07404 | Transport Management Information Control System | 12 |
| 2. | LTU 07405 | Inter-modal Transport | 15 |
| 3. | LTU 07406 | Transport Marketing Management | 12 |
| 4. | LTU 07407 | Air Transport Management | 12 |
| Fundamental Modules | | | |
| 5. | GСУ 07405 | Research Methodology | 9 |
| Total Credits | | | 60 |

(c) **Award**

On successful completion of the programme, a candidate who wishes to exit is awarded the Higher Diploma in Logistics and Transport Management of the National Institute of Transport.

8.2.1.2. Bachelor's Degree (NTA Level 8) in Logistics and Transport Management

(a) **Purpose of the Qualification**

This qualification is intended for a person who will manage logistics and transport operations, establish viable small scale enterprises, promote the growth of the organization and analyze the total transport system in the global context.

(b) **Summary of Modules**

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---------------------------------|-----------|
| Core Modules | | | |
| 1. | LTU 08101 | Urban Transport Planning | 15 |
| 2. | LTU 08102 | Freight and Passenger Insurance | 15 |
| 3. | LTU 08103 | Handling of Dangerous Cargo | 15 |
| 4. | LTU 08105 | Industrial Training II | 12 |
| Fundamental Modules | | | |
| 5. | LTU 08104 | Strategic Management | 15 |
| Total Credits | | | 72 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--------------------------|-----------|
| Core Modules | | | |
| 1. | LTU 08205 | Rural Transport Planning | 12 |
| 2. | LTU 08206 | International Logistics | 15 |
| 3. | LTU 08207 | Travel and Tourism | 12 |
| 4. | LTU 08208 | Research Project | 12 |
| Fundamental Modules | | | |
| 5. | GSU 08202 | Entrepreneurship Skills | 9 |
| Total Credits | | | 60 |

(c) **Award**

Candidate who successfully completed the programme, is awarded the Bachelor's Degree (NTA Level 8) in Logistics and Transport Management of the National Institute of Transport.

8.2.2. Diploma (NTA Level 4 to 6) Programmes

8.2.2.1. Basic Technician Certificate (NTA Level 4) in Logistics and Transport Management Programme

(a) Purpose of the Qualification

This qualification is intended for persons who will handle routine Logistics and Transport operations in an organization including preparation, issuing and maintaining documents, marshalling resources and handling passengers and goods.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | LTT 04101 | Basics of Transport | 15 |
| 2. | LTT 04103 | Elements of Fleet Management | 15 |
| Fundamental Modules | | | |
| 3. | LTT 04102 | Basics of Accounting | 12 |
| 4. | ITT 04101 | Basic Information and Communication Technology | 9 |
| 5. | GST 04101 | Basics Communication Skills | 9 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | LTT 04205 | Elements of Freight Operations | 9 |
| 2. | LTT 04207 | Logistics and Transport Operations | 12 |
| 3. | LTT 04208 | Basic of Freight Clearing and Forwarding | 15 |
| Fundamental Modules | | | |
| 4. | LTT 04204 | Basic Commercial Aspects | 9 |
| 5. | GST 04202 | Basic Business Mathematics | 9 |
| 6. | LTT 04206 | Office Practice in Logistics | 9 |
| Total Credits | | | 63 |

(c) Award

Upon successful completion of the programme, a candidate who wishes to exit is awarded the Basic Technician Certificate in Logistics and Transport Management of the National Institute of Transport.

Diploma (NTA Level 4 to 6) Programmes

8.2.2.2. Technician Certificate (NTA Level 5) in Logistics and Transport Management Programme

(a) Purpose of the Qualification

This qualification is intended for a person who will handle operational activities in transport and logistics in an organization including marketing of services, handling records, correspondences, documents, passengers and freight.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | LTT 05101 | Basics of Logistics Management | 15 |
| 2. | LTT 05102 | Principles of Physical Distribution | 15 |
| 3. | LTT 05104 | Industrial Training | 12 |
| Fundamental Modules | | | |
| 4. | GST 05101 | Basics of Entrepreneurship Skills | 9 |
| 5. | ITT 05101 | Information and Communication Technology | 9 |
| 6. | LTT 05103 | Principles of Accounting | 12 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | LTT 05204 | Basic of Transport Planning | 12 |
| 2. | LTT 05205 | Principles of Logistics and Transport Operations | 12 |
| 3. | LTT 05206 | Supervisory Skills | 12 |
| 4. | LTT 05207 | Principles of Economics | 15 |
| Fundamental Modules | | | |
| 5. | GST 05201 | Communication Skills | 9 |
| 6. | GST 05202 | Basic Business Statistics | 9 |
| Total Credits | | | 69 |

(c) Award

Upon successful completion of the programme, candidate who wishes exit is awarded the Technician Certificate in Logistics and Transport Management of the National Institute of Transport.

8.2.2.3. Diploma (NTA Level 6) in Logistics and Transport Management

(a) Purpose of the Qualification

This qualification is intended for a person who will apply supervisory skills and knowledge in transport and logistics including cargo and passenger handling, fleet management, preparation of documents and performing administrative matters.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---------------------------------|-----------|
| Core Modules | | | |
| 1. | LTT 06102 | Industrial Training | 12 |
| 2. | LTT 06103 | Passenger Transport | 15 |
| Fundamental Modules | | | |
| 3. | LTT 06101 | Basics of Management Accounting | 12 |
| 4. | GST 06101 | Development Studies | 9 |
| 5. | GST 06102 | Fundamental of Business Law | 12 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | LTT 06204 | Fundamental of Logistics and Supply Chain Management | 12 |
| 2. | LTT 06205 | Transport Technology | 15 |
| Fundamental Modules | | | |
| 3. | LTT 06206 | Principles of Management | 15 |
| 4. | GST 06203 | Business Mathematics and Statistics | 9 |
| 5. | ITT 06201 | Basic Information Technology | 9 |
| Total Credits | | | 60 |

(c) Award

On successful completion of the programme, a candidate is awarded the Diploma in Logistics and Transport Management of the National Institute of Transport.

8.2.3. Diploma in Freight Clearing and Forwarding

8.2.3.1. Basic Technician Certificate in Freight Clearing and Forwarding Programme

(a) **Purpose of the Qualification**

This qualification is intended for individuals who will perform routine tasks related to Freight Clearing and Forwarding operations, handle customer requests, deal with various freight clearing operational documents and apply basic quantitative techniques and information Technology in Freight Clearing and Forwarding Clerical duties.

(b) **Summary of Modules**

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | FCT 04101 | Basics of Transport | 15 |
| 2. | FCT 04102 | Basics of Taxation | 12 |
| 3. | FCT 04103 | Element of International Trade | 12 |
| Fundamental Modules | | | |
| 4. | GST 04101 | Basic Communication Skills | 9 |
| 5. | ITT 04101 | Basic of Information and Communication Technology | 9 |
| 6. | LTT 04102 | Basics of Accounting | 12 |
| Total Credits | | | 69 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | FCT 04204 | Basics of Freight Clearing and Forwarding | 15 |
| 2. | FCT 04205 | Basic Customs Procedures | 15 |
| 3. | FCT 04207 | Basics of Freight Forwarding Marketing | 12 |
| 4. | LTT 04206 | Office Practice in Logistics | 9 |
| Fundamental Modules | | | |
| 5. | GST 04202 | Basic Business Mathematics | 9 |
| Total Credits | | | 60 |

(c) **Award**

On successful completion of the programme, a candidate who wishes to exit is awarded the Basic Technician Certificate in Freight Clearing and Forwarding of the National Institute of Transport.

8.2.3.2. Technician Certificate in Freight Clearing and Forwarding Programme

(a) Purpose of the Qualification

This qualification is intended for a person who will handle freight clearing and forwarding operations, ensure efficient utilization of operational fleet, maintain safety and security rules and regulations and supervise freight clearing and forwarding operational systems.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | FCT 05101 | Customs in International and National Context | 15 |
| 2. | FCT 05102 | International Organizations in Freight Forwarding | 15 |
| Fundamental Modules | | | |
| 3. | GST 05101 | Basics of Entrepreneurship Skills | 9 |
| 3. | GST 05101 | Basic Computer Applications | 9 |
| 5. | LTT 05103 | Principles of Accounting | 12 |
| 6. | FCT 05103 | Industrial Training | 12 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | FCT 05203 | International Customs Tariffs Nomenclature | 12 |
| 2. | FCT 05204 | Customs Procedures | 12 |
| 3. | FCT 05205 | Customs Law | 12 |
| 4. | FCT 05206 | Basics of Freight Documentation | 12 |
| Fundamental Modules | | | |
| 5. | GST 05201 | Business Communications | 9 |
| 6. | GST 05202 | Basic Business Statistics | 9 |
| Total Credits | | | 66 |

(c) Award

On successful completion of the programme, a candidate who wishes exit is awarded the Technician Certificate in Freight Clearing and Forwarding of the National Institute of Transport.

8.2.3.3. Diploma in Freight Clearing and Forwarding Programme

(a) Purpose of the Qualification

This qualification is intended for a person who will conduct a wide range of Freight Clearing activities including operational and some managerial functions.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | FCT 06101 | Industrial Training | 12 |
| 2. | FCT 06102 | Port and Airport Operations | 9 |
| 3. | FCT 06103 | Transport Geography | 9 |
| 4. | FCT 06104 | Customs Enforcement, Compliance and Trade Facilitation | 9 |
| Fundamental Modules | | | |
| 5. | LTT 06101 | Basics of Management Accounting | 12 |
| 6. | GST 06101 | Development Studies | 9 |
| 7. | GST 06102 | Fundamental of Business Law | 9 |
| Total Credits | | | 69 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | FCT 06204 | Freight Documentation | 12 |
| 2. | FCT 06206 | Transport Operations | 12 |
| Fundamental Modules | | | |
| 3. | GST 06203 | Business Mathematics and Statistics | 9 |
| 4. | ITT 06201 | Basic Information Technology | 9 |
| 5. | LTT 06201 | Principles of Management | 15 |
| 6. | FCT 06204 | Fundamental of Logistics and Supply chain Management | 12 |
| Total Credits | | | 69 |

(c) Award

On successful completion of the programme, a candidate is awarded the Diploma in Freight Clearing and Forwarding of the National Institute of Transport.

8.2.4. Bacheor's Degree (NTA Level 7-8) Programme

8.2.4.1. Higher Diploma (NTA Level 7) in Shipping and Port Logistics Management

(a) Purpose of the Qualification

This qualification is intended for a person who will be able to perform a broad range of activities comprising managerial activities.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-------------------------------------|-----------|
| Core Modules | | | |
| 1. | SPU 07105 | Shipping Operations Management | 12 |
| 2. | SPU 07106 | Maritime Safety and Security | 12 |
| Fundamental Modules | | | |
| 3. | SPU 07101 | Business Communication Skills | 9 |
| 4. | SPU 07102 | Computer Applications | 9 |
| 5. | SPU 07103 | Business Mathematics and Statistics | 9 |
| 6. | SPU 07104 | Organizational behaviour | 9 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | SPU 07210 | Port performance and Competition | 9 |
| 2. | SPU 07211 | Strategic Management and Cooperate Maritime Strategy | 12 |
| 3. | SPU 07212 | Fleet Management | 9 |
| 4. | SPU 07213 | Maritime Transport Management | 9 |
| Fundamental Modules | | | |
| 5. | SPU 07207 | Human Resource Management | 9 |
| 6. | SPU 07208 | Research Methodology | 9 |
| 7. | SPU 07209 | Entrepreneurship Skills | 6 |
| Total Credits | | | 63 |

SEMESTER III

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | SPU 07316 | Industrial Practical Training | 12 |
| 2. | SPU 07317 | Customs Procedures and Shipping Documentation | 12 |
| 3. | SPU 07318 | Law of Business and Carriage | 9 |
| 4. | SPU 07319 | Maritime Insurance | 12 |
| Fundamental Modules | | | |
| 5. | SPU 07314 | Warehousing Management | 9 |
| 6. | SPU 07315 | Development Studies | 9 |
| Total Credits | | | 63 |

SEMESTER IV

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-----------------------------|-----------|
| Core Modules | | | |
| 1. | SPU 07422 | Shipping and Port Finance | 12 |
| 2. | SPU 07423 | Maritime Economics | 9 |
| 3. | SPU 07424 | Maritime Legislation | 12 |
| 4. | SPU 07425 | Shipping and Port Marketing | 12 |
| Fundamental Modules | | | |
| 5. | SPU 07420 | Quantitative Methods | 9 |
| 6. | SPU 07421 | Procurement Management | 9 |
| Total Credits | | | 63 |

(c) Award

On successful completion of the programme, a candidate who wishes to exit is awarded the Higher Diploma in Shipping and Port Logistics Management of the National Institute of Transport.

8.2.4.2. Bachelor's Degree (NTA Level 8) in Shipping and Port Logistics Management

(a) Purpose of the Qualification

This qualification is intended for a person who will perform a broad range of activities comprising of managerial activities.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | SPU 08102 | Maritime Risk Management | 9 |
| 2. | SPU 08103 | International Logistics and Supply Chain Management | 9 |
| 3. | SPU 08104 | Port and Terminal Operations Management | 12 |
| 4. | SPU 08105 | Maritime Environment and Sustainability | 9 |
| 5. | SPU 08106 | Industrial Practical Training | 12 |
| Fundamental Modules | | | |
| 6. | SPU 08101 | Business Ethics and Good Governance | 12 |
| Total Credits | | | 63 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-------------------------------------|-----------|
| Core Modules | | | |
| 1. | SPU 08208 | Transport Management Control System | 6 |
| 2. | SPU 08209 | Integrated Transport Systems | 6 |
| 3. | SPU 08210 | Inventory Management | 12 |
| 4. | SPU 08211 | Handling of Dangerous Goods | 12 |
| 5. | SPU 08212 | Port Planning and Designing | 12 |
| 6. | SPU 08213 | Research Project | 12 |
| Fundamental Modules | | | |
| 7. | SPU 08207 | Total quality Management | 6 |
| Total Credits | | | 66 |

(c) Award

On successful completion of the programme, candidate is awarded the Bachelor's Degree (NTA Level 8) in Shipping and Port Logistics Management of the National Institute of Transport.

8.2.5. Diploma (NTA Level 6) in Shipping and Port Logistics Operations

8.2.5.1. Basic Technician Certificate (NTA Level 4) in Shipping and Port Logistics Operations

(a) Purpose of Qualifications

This qualification is intended for persons who will be able to perform routine or basic Shipping and Port Logistics activities in maritime industry.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-------------------------------------|-----------|
| Core Modules | | | |
| 1. | SPT 04104 | Basics of Logistics and Transport | 12 |
| 2. | SPT 04105 | Basics of Shipping Operations | 12 |
| 3. | SPT 04106 | Shipping Knowledge | 9 |
| 4. | SPT 04107 | Basics of Maritime Environment | 9 |
| Fundamental Modules | | | |
| 5. | SPT 04101 | Basics of Accounting | 6 |
| 6. | SPT 04102 | Basics of Computer Applicants | 9 |
| 7. | SPT 04103 | Basic Business Communication Skills | 9 |
| Total Credits | | | 66 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---------------------------------|-----------|
| Core Modules | | | |
| 1. | SPT 04211 | Basics of Port Operations | 12 |
| 2. | SPT 04212 | Basics of Freight Operations | 9 |
| 3. | SPT 04213 | Elements of International Trade | 9 |
| 4. | SPT 04214 | Elements of Business Law | 9 |
| Fundamental Modules | | | |
| 5. | SPT 04208 | Basic of Customer Services | 9 |
| 6. | SPT 04209 | Basic Business Mathematics | 9 |
| 7. | SPT 04210 | Basic of Entrepreneurship | 6 |
| Total Credits | | | 63 |

(c) Award

Candidate who successfully completed the programme and wishes to exit is awarded the Basic Technician Certificate in Shipping and Port Logistics Operations of the National Institute of Transport.

8.2.5.2. Technician Certificate in Shipping and Port Logistics Operations

(a) Purpose of the Qualification

This qualification is intended for persons who will perform routine and non - routine Shipping and Port Logistics activities in shipping and port Logistics services providers and production and manufacturing companies.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | SPT 05103 | Shipping operations | 12 |
| 2. | SPT 05104 | Warehousing Operations | 12 |
| 3. | SPT 05105 | Customs and Other Government Departments (OGDs) Procedures and Regulations | 12 |
| 4. | SPT 05106 | Element of Fleet Management | 9 |
| 5. | SPT 05107 | Industrial Practical Training | 12 |
| Fundamental Modules | | | |
| 6. | SPT 05101 | Principles of Entrepreneurship | 6 |
| 7. | SPT 05102 | Computer Applications | 9 |
| Total Credits | | | 72 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | SPT 05211 | Port and Terminal Operations | 12 |
| 2. | SPT 05212 | Basics of Maritime Legislations | 6 |
| 3. | SPT 05213 | Elements of Maritime Safety and Security | 12 |
| 4. | SPT 05214 | Principles of Physical Distribution | 9 |
| 3. | LTT 04208 | Basic of Freight Clearing and Forwarding | 15 |
| Fundamental Modules | | | |
| 5. | SPT 05208 | Basic Business Statistics | 9 |
| 6. | SPT 05209 | Principles of Accounting | 9 |
| 7. | SPT 05210 | Business Communication Skills | 9 |
| Total Credits | | | 66 |

(c) Award

Candidate who successful completed the programme and wishes to exit is awarded the Technician Certificate in Shipping and Port Logistics Operations of the National Institute of Transport.

8.2.5.3. Diploma (NTA Level 6) in Shipping and Port Logistics Operations

(a) Purpose of the Qualification

This qualification is intended for persons, who will perform a broad range of activities comprising of non-routine.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-------------------------------|-----------|
| Core Modules | | | |
| 1. | SPT 06104 | Transport Geography | 9 |
| 2. | SPT 06105 | Maritime Logistics | 6 |
| 3. | SPT 06106 | International Trade Law | 12 |
| 4. | SPT 06107 | Industrial Practical Training | 12 |
| Fundamental Modules | | | |
| 5. | SPT 06101 | Cost Accounting | 6 |
| 6. | SPT 06102 | Principles of Management | 9 |
| 7. | SPT 06103 | Principles of Economics | 9 |
| Total Credits | | | 66 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | SPT 06210 | Marine Insurance and Salvage | 9 |
| 2. | SPT 06211 | Port Technology | 12 |
| 3. | SPT 06212 | Professional Ethics | 6 |
| 4. | SPT 06213 | Principles of Maritime Economics | 9 |
| 5. | SPT 06214 | Basics of Occupational Health and Safety | 12 |
| Fundamental Modules | | | |
| 6. | SPT 06208 | Development Studies | 6 |
| 7. | SPT 06209 | Maritime Mathematics and Statistics | 9 |
| Total Credits | | | 63 |

(c) Award

Candidate who successfully completed the programme is awarded the Diploma in Shipping and Port Logistics Operations of the National Institute of Transport.

8.2.6. Bacheor's Degree (NTA Level 7-8) Programme in Road and Railway Transport Logistics Management

8.2.6.1. Higher Diploma (NTA Level 7) in Road and Railway Transport Logistics Management

(a) Purpose of the Qualification

This qualification is intended for a person who will perform managerial activities in road and railway transport sub-sectors but not limited to preparation of periodic performance reports, summary of operational activities and make decisions.

(b) Summary of Modules**SEMESTER I**

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--------------------------------------|-----------|
| Core Modules | | | |
| 1. | RRU 07104 | Train and Traffic Control Management | 9 |
| 2. | RRU 07105 | Logistics and Transport Management | 9 |
| 3. | RRU 07106 | Rail Transport System | 12 |
| 4. | RRU 07107 | Intermodal and Multimodal Transport | 9 |
| 5. | RRU 07108 | Transport Statistics | 9 |
| Fundamental Modules | | | |
| 6. | RRU07101 | Business Communication Skills | 6 |
| 7. | RRU07102 | Computer Applications | 9 |
| 8. | RRU07103 | Managerial Accounting | 6 |
| Total Credits | | | 69 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | RRU 07211 | Road and Railway Safety, Security and Environmental Management | 12 |
| 2. | RRU 07212 | Road and Railway Transport Finance | 9 |
| 3. | RRU 07213 | Road and Railway Traffic Tariffs | 9 |
| 4. | RRU 07214 | Rural and Urban Transport Planning | 12 |
| Fundamental Modules | | | |
| 5. | RRU 07209 | Quantitative Methods | 9 |
| 6. | RRU 07210 | Human Resource Management | 9 |
| Total Credits | | | 60 |

SEMESTER III

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--------------------------------------|-----------|
| Core Modules | | | |
| 1. | RRU 07316 | Logistics and Information Technology | 12 |
| 2. | RRU 07317 | Intelligent Transport System | 9 |
| 3. | RRU 07318 | Fleet Operations Management | 9 |
| 4. | RRU 07319 | Inventory and Warehousing Management | 9 |
| 5. | RRU 07320 | Industrial Practical Training | 12 |
| Fundamental Modules | | | |
| 6. | RRU 07315 | Development Studies | 9 |
| Total Credits | | | 60 |

SEMESTER IV

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | RRU 07423 | Road and Railway Transport Marketing | 12 |
| 2. | RRU 07424 | Road and Railway Transport Economics | 12 |
| 3. | RRU 07425 | Road and Railway Transport Planning and Policy | 12 |
| 4. | RRU 07426 | Motor Vehicle Technology | 9 |
| Fundamental Modules | | | |
| 5. | RRU 07421 | Research Methodology | 9 |
| 6. | RRU 07422 | Law of Business and Carriage | 9 |
| Total Credits | | | 63 |

(c) Award

On successful completion of the programme, candidate who wishes to exit is awarded the Higher Diploma in Road and Railway Transport Logistics Management of the National Institute of Transport.

8.2.6.2. Bachelor's Degree (NTA Level 8) in Road and Railway Transport Logistics Management

(a) Purpose of the Qualification

This qualification is intended for a person who will manage logistics and transport operations, establish viable small scale enterprises, promote the growth of the organization and analyze the total transport system and the global context.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---------------------------------------|-----------|
| Core Modules | | | |
| 1. | RRU 08103 | Train and Traffic Control Management | 9 |
| 2. | RRU 08104 | Railway Complexity | 12 |
| 3. | RRU 08105 | Logistics and Supply Chain Management | 9 |
| 4. | RRU 08106 | International Logistics | 9 |
| 5. | RRU 08107 | Industrial Practical Training | 12 |
| Fundamental Modules | | | |
| 6. | RRU 08101 | Strategic Transport Management | 6 |
| 7. | RRU 08102 | Travel and Tourism | 6 |
| Total Credits | | | 63 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--------------------------------------|-----------|
| Core Modules | | | |
| 1. | RRU 08209 | Packaging and Material Handling | 9 |
| 2. | RRU 08210 | Handling of Dangerous Goods | 12 |
| 3. | RRU 08211 | Road Traffic Operation Management | 9 |
| 4. | RRU 08212 | Road and Railway Transport Insurance | 9 |
| 5. | RRU 08213 | Procurement Management | 9 |
| 6. | RRU 08214 | Research Project | 12 |
| Fundamental Modules | | | |
| 7. | RRU 08208 | Entrepreneurship Skills | 9 |
| Total Credits | | | 69 |

(c) Award

On successful completion of the programme, a candidate is awarded the Bachelor's Degree (NTA Level 8) in Road and Railway Transport Logistics Management of the National Institute of Transport.

8.2.7. Diploma (NTA Level 6) in Road and Railway Transport Logistics Operation

8.2.7.1. Basic Technician Certificate (NTA Level 4) in Road and Railway Transport Logistics Operations

(a) Purpose of the Qualification

This qualification is intended for persons who will perform routine activities and supervised tasks in road and railway transport logistics in an organization, including marshaling activities, handling records, correspondences, documents, passengers and freight.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-----------------------------------|-----------|
| Core Modules | | | |
| 1. | RRT 04104 | Basics of Logistics and Transport | 12 |
| 2. | RRT 04105 | Passenger Services | 12 |
| 3. | RRT 04106 | Train Formation Movement | 12 |
| Fundamental Modules | | | |
| 4. | RRT 04101 | Basics of Accounting | 6 |
| 5. | RRT 04102 | Basic Communication Skills | 9 |
| 6. | RRT 04103 | Basics of Computer Application | 9 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | RRT 04208 | Basics of Freight Operations | 12 |
| 2. | RRT 04209 | Traffic Accounting | 12 |
| 3. | RRT 04210 | Train Movement, Consignment Safety and Security | 12 |
| 4. | RRT 04211 | Basics of Fleet Operations | 15 |
| Fundamental Modules | | | |
| 5. | RRT 04207 | Basic Business Mathematics | 9 |
| Total Credits | | | 60 |

(c) Award

Candidate who successfully completed the programme and wishes to exit is awarded the Basic Technician Certificate in Road and Railway Transport Operations of the National Institute of Transport.

8.2.7.2. Technician Certificate in Road and Railway Transport Operations

(a) Purpose of the Qualification

This qualification is intended for persons who will handle operational activities in transport and logistics in an organization including marketing of service and handling records, correspondences, documents, passengers and freight.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | RRT 05101 | Train Operating System | 6 |
| 2. | RRT 05102 | Railway Equipment and Facilities | 6 |
| 3. | RRT 05103 | Basic Automobile Technology | 9 |
| 4. | RRT 05104 | Basics of Logistics Management | 9 |
| 5. | RRT 05109 | Industrial Practical Training | 12 |
| Fundamental Modules | | | |
| 6. | RRT 05105 | Basics of Customer Service and Marketing | 6 |
| 7. | RRT 05106 | Computer Applications | 9 |
| 8. | RRT 05107 | Principles of Entrepreneurship | 6 |
| 9. | RRT 05108 | Principles of Accounting | 6 |
| Total Credits | | | 69 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | RRT 05213 | Railway Safety, Security and Environment | 6 |
| 2. | RRT 05214 | Goods and Coaching Accounting | 9 |
| 3. | RRT 05215 | Elements of Motor Fleet Operations | 12 |
| 4. | RRT 05216 | Basics of Handling Dangerous and Abnormal Loads | 9 |
| Fundamental Modules | | | |
| 5. | RRT 05210 | Communication Skills | 9 |
| 6. | RRT 05211 | Basic Business Statistics | 9 |
| 7. | RRT 05212 | Supervisory Skills | 6 |
| Total Credits | | | 60 |

(c) Award

Candidate who successfully completed the programme and wishes to exit is awarded the Technician Certificate in Road and Railway Transport Logistics Operations of the National Institute of Transport.

8.2.7.3. **Diploma in Road and Railway Transport Logistics Operations**

(a) Purpose of the Qualification

This qualification is intended for persons, who will apply supervisory skills and knowledge in transport and logistics including cargo and passenger handling, fleet management, preparations of document and performing administrative matters.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | RRT 06101 | Station Accounts and Operation Inspection | 12 |
| 2. | RRT 06102 | Handling and Prevention of Claims | 9 |
| 3. | RRT 06103 | Principles of Road and Railway Transport Economics | 9 |
| 4. | RRT 06104 | Transport Geography | 12 |
| 5. | RRT 06105 | Intermodal and Multimodal Transport | 9 |
| 6. | RRT 06107 | Industrial Practical Training | 12 |
| Fundamental Modules | | | |
| 7. | RRT 06106 | Basics of Professional Ethics | 9 |
| Total Credits | | | 72 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--------------------------------------|-----------|
| Core Modules | | | |
| 1. | RRT 06207 | Law of Contract and Carriage | 9 |
| 2. | RRT 06208 | Train and Traffic Control | 12 |
| 3. | RRT 06209 | Road Safety Security and Environment | 9 |
| 4. | RRT 06210 | Passenger and Freight Operations | 9 |
| 5. | RRT 06211 | Inventory and Warehousing Operations | 9 |
| Fundamental Modules | | | |
| 6. | RRT 06212 | Business Mathematics and Statistics | 9 |
| 7. | RRT 06213 | Development Studies | 9 |
| Total Credits | | | 66 |

(c) Award

Candidate who successfully completed the programme is awarded the Diploma in Road and Railway Logistics Operations of the National Institute of Transport.

8.2.7.4 Academic Staff

Head of Department

Dr. Prosper S. Nyaki

PhD in Transportation Engineering - (UDSM), MSc. in Geo-Information Science in Urban Planning and Management–(Netherlands), ADTM – (NIT), DAE – (NIT), MCILT – (UK)

Examination Coordinators

Cathbert Mayange

MSc. in International Logistics and Transport – Mr. (UDSM), BFCF – (NIT), Dip in Education– (Marangu T.T.C).

Mr. Godlisten Msumanje

MSc, Logistics and Transport Management – (NIT), Master of Logistics Management Management – (ZUA, China), BLTM – (NIT), MCILT – (UK)

Lecturers

Dr. Prosper S. Nyaki

PhD in Transportation Engineering (UDSM), MSc. in Geo-Information Science in Urban Planning and Management –(Netherlands), ADTM – (NIT), DAE – (NIT), MCILT – (UK).

Dr. Benitha Myamba

PhD in Business Administration – logistics and Supply Chain Management – (UDSM), Mphil. in Maritime Studies – (Stellenbosch University. S.A), BSc Wildlife Conservation – (UDSM), Member CILT, TARA, NACTE

Prof. Dr. Erick Massami PhD in Logistics Engineering and Management – (DMU, China), Mphil.in Maritime Studies – (Stellenbosch University. S.A), BPhil Cum-Laude Martime Studies - (Stellenbosch University, S.A), BSc. Ed. Hons – (UDSM), Member IoDT, FCILT

Assistant Lecturers

*Ms. Tatu Salum MSc. in Procurement and Supply Chain Management – (MU), ADFCF – (NIT), MCILT - (UK).

Mr. Salum Mihayo MSc. in PSCM – (MU), ADFCF– (NIT), MCILT – (UK).

Mr. Godlisten Msumanje MSc, Logistics and Transport Management – (NIT), Master of Logistics Management Management – (ZUA, China), BLTM – (NIT), MCILT – (UK), Member TARA

Mr. Sesera A. Samson MSc, Logistics and Transport Management – (NIT), – (NIT), BLTM – (NIT), Member TARA

Mr. Mathew E. Swila MSc. International Logistics and Port Management - (Pusan National Management University, South Korea), BLTM – (NIT)

Mr. Cathbert Mayange MSc. in International Transport and Logistics – (UDSM), BFCF – (NIT), Dip in Education– (Marangu T.T.C).

Mr. Strimius S. Kahangwa MSc. in International Transport and Logistics – (UDSM), BFCF – (NIT),

Mr. Epimachus Burchard MSc. in Maritime Affairs (Shipping Management and Logistics Engineering and Management – (Dalian Martime University-China), BLTM – (NIT).

Ms. Michael A. Soka MSc. in Railway Operations Management and Policy – (University of Leeds, UK), Placement Training, Network Rail, (York, UK), BLTM – (NIT)

Mr. Michael P. Chuwa MSc. International Transport and Logistics – (UDSM), BBA in Procurement and Logistics Management – (MU), CPSP (T) – (PSPTB)

Senior Tutors

Mr. Alex Butogo MSc. in PSCM – (MU), ADFCF – (NIT), MCILT– (UK), Member CILT and TARA

Ms. Grace Mmari MBA in Logistics and Transport – (OUT), PGDBA – (CBE), BSLM – (DMI), ADTM – (NIT), Dip Education– (Dar es Salaam T.T.C).

Tutorial Assistant

Ms. Zawadi J. Mwakyoma BLTM – (NIT)

Tutor II

*Ms. Rehema S. Mzee MSc. in Logistics Engineering and Management - (Dalian Maritime University-China), BLTM – (NIT), Member CILT

* **On study leave**

8.3. TRANSPORT ENGINEERING AND TECHNOLOGY DEPARTMENT

The Department is responsible for planning, organizing and conducting of engineering related programmes. The Department has endeavored to develop its performance and ensure excellence in training, scientific research and consultancy services in the engineering field. It creates an intellectual forum for various disciplines of Mechanical, Electrical, Automobile, Locomotive Electronics, Telecommunication, civil, railway electrification, Engineering Sciences and Technology, Shipbuilding and Repair and Oil and Gas.

Currently the Department is conducting the Bachelor's Degree (NTA Level 7-8), Ordinary Diploma (NTA Level 6) and Certificate (NTA Level 4-5) Programmes.

General Course Programme for Automobile Engineering

(a) Purpose of Qualification

This qualification is intended for persons who will be able to use knowledge and skills in applying Automobile Engineering Principles and concepts to carry out Remedies and Supervision on Automobile Engineering Industry for both Domestic and Commercial applications.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------|--------------------|--|----------------|
| Core Modules | | | |
| 1 | AET 05207G | Workshop Technology | 6 |
| 2 | AET 04106G | Geometrical Drawing | 9 |
| 3 | AET 04103G | Basic Computer Application | 9 |
| 4 | AET 05108G | Machine Elements | 6 |
| 5 | AET 05109G | Strength of Materials | 6 |
| 6 | AET 05103G | Automotive Electrical and Electronic Systems | 6 |
| 7 | AET 05105G | Automotive Suspension and Steering Systems | 6 |
| 8 | AET 05106G | Automotive Brake Maintenance and Repair | 6 |
| 9 | AET 04107G | Basic Automobile Layout | 9 |
| Total Credits | | | 63 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|---|-----------|
| Core Modules | | | |
| 1 | AET 04205G | Engineering Drawing | 12 |
| 2 | AET 05107G | Materials Technology | 6 |
| 3 | AET 05110G | Thermodynamics | 6 |
| 4 | AET 06107G | Fluid Power Systems | 6 |
| 5 | AET 05204G | Automotive Transmission and Drive Train | 6 |
| 6 | AET 05209G | Automobile Heating and Air Conditioning | 6 |
| 7 | AET 06102G | Basic Programming with C/C++ | 6 |
| 8 | AET 06105G | Internal combustion Engine | 6 |
| 9 | AET 06206G | Automobile Body Works | 9 |
| 10 | AET G5104 | Industrial Practical Training | |
| Total Credits | | | 63 |

8.3.1. Bachelor's Degree (NTA Level 7-8) Programme in Automobile Engineering

8.3.1.1. Higher Diploma (NTA Level 7) in Automobile Engineering

(a) Purpose of the Qualification

This qualification is intended to persons, who will conduct a variety of Automobile engineering activities including design of Automobile machinery, machines, tools, Automobile equipment and components as well as organizing and directing the maintenance of the same in collaboration with other specialists in compliance with the technological changes.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--------------------------------------|-----------|
| Core Modules | | | |
| 1. | AEU 07104 | Advanced Engineering Thermodynamics | 9 |
| 2. | AEU 07105 | Mechanics of Machines | 9 |
| 3. | AEU 07106 | Automobile Development | 9 |
| 4. | AEU 07107 | Production Technology | 9 |
| Fundamental Modules | | | |
| 6. | AEU 07101 | Communication Skills | 9 |
| 7. | AEU 07102 | Fundamentals of Computer Programming | 9 |
| 8. | AEU 07103 | Linear Algebra | 9 |
| Total Credits | | | 63 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | AEU 07203 | Computer Aided Drafting Application | 9 |
| 2. | AEU 07204 | Internal Combustion Engines | 9 |
| 3. | AEU 07205 | Automobile Fuels and Lubricants | 9 |
| 4. | AEU 07206 | Advanced Steering and Suspension Systems | 9 |
| 5. | AEU 07207 | Fluids Mechanics | 9 |
| 6. | AEU 07206 | Strength of Materials | 9 |
| Fundamental Modules | | | |
| 7. | AEU 07201 | Integral Calculus | 9 |
| 8. | AEU 07202 | Development Studies | 9 |
| Total Credits | | | 72 |

SEMESTER III

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | AEU 07310 | Vehicle Aerodynamics and Body Construction | 9 |
| 2. | AEU 07311 | Hydraulic and Pneumatics Systems Design | 9 |
| 3. | AEU 07305 | Advanced Brake Systems | 9 |
| 4. | AEU 07306 | Vehicle Dynamics and Control | 9 |
| 5. | AEU 07307 | Automobile-Electrical and Electronic Systems | 9 |
| 6. | AEU 07312 | Industrial Practical Training | 12 |
| Fundamental Modules | | | |
| 7. | AEU 07308 | Differential Calculus | 9 |
| 8. | AEU 07309 | Procurement and Supply Procedures | 9 |
| Total Credits | | | 75 |

SEMESTER IV

| S/No | Module Code | Module Name | Credits |
|-------------------------|-------------|---|---------|
| Core Modules | | | |
| 1. | AEU 07413 | Measurement and Control Engineering | 9 |
| 2. | AEU 07414 | Automobile Maintenance Management | 9 |
| 3. | AEU 07415 | Vehicle Safety and Comfort Technology | 9 |
| 4. | AEU 07416 | Computer Aided Design | 9 |
| 5. | AEU 07417 | Engineering Design Methodology | 9 |
| Elective Modules | | | |
| 6. | AEU 07418 | Agricultural Tractors and Machinery Technology | 9 |
| 7. | AEU 07419 | Trucks, Tractors and Heavy- Duty Equipment Technology | 9 |

| Fundamental Modules | | | |
|----------------------------|-----------|----------------------------|-----------|
| 8. | AEU 07411 | Probability and Statistics | 9 |
| 9. | AEU 07412 | Research Methodology | 9 |
| Total Credits | | | 81 |

(c) Award

On successful completion of the course, candidate who wishes to exit is awarded the Higher Diploma in Automobile Engineering of the National Institute of Transport.

8.3.1.2. Bachelor's Degree (NTA-Level 8) in Automobile Engineering

(a) Purposes of the Qualification

This qualification is intended for persons, who will be able to utilize the knowledge and transform it into practices of skills, be able to work independently in various systems of Automobile engineering, observing the principles in variety of Automobile engineering activities of design, manufacturing and management, including operational processes such as design, develop, build, and test Automobile devices like tools, engines, and machines of all types.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|------------------------------------|-----------|
| Core Modules | | | |
| 1. | AEU 08102 | Engine Management | 9 |
| 2. | AEU 08103 | Engineering Management | 9 |
| 3. | AEU 08104 | Environment and Safety Engineering | 6 |
| 4. | AEU 08106 | Project Conceptualization | 9 |
| 5. | AEU 08107 | Industrial Practical Training | 12 |
| 6. | AEU 08108 | Automobile Design and Development | 9 |
| Fundamental Modules | | | |
| 7. | GSU 08106T | Law for Engineers | 9 |
| Total Credits | | | 63 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---------------------------------------|-----------|
| Core Modules | | | |
| 1. | AEU 08204 | Computer Aided Manufacturing | 12 |
| 2. | AEU 08205 | Road Transport Studies | 12 |
| 3. | AEU 08210 | Engine Diagnostic and Testing Methods | 15 |
| 4. | AEU 08211 | Project Realization | 12 |
| Elective Modules | | | |
| 5. | AEU 08207 | Risk Management | 9 |
| 6. | AEU 08208 | Project Management | 9 |
| 7. | AEU 08209 | Road Traffic Accident Investigations | 12 |
| Fundamental Modules | | | |
| 8. | GSU 08214T | Entrepreneurship for Engineers | 6 |
| Total Credits | | | 87 |

(c) Award

On successful completion of the programme, candidate is awarded the Bachelor's Degree in Automobile Engineering of the National Institute of Transport.

8.3.2. Ordinary Diploma in Automobile Engineering

8.3.2.1. Basic Technician Certificate (NTA Level 4) in Automobile Engineering

(a) Purpose of the Qualification

This qualification is intended for individuals who will diagnose faults/troubles in all types of motor vehicles and carry out simple routine repairs and maintenance services efficiently and effectively.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | AET 04104 | Basic Machine Elements | 6 |
| 2. | AET 04105 | Basic Engineering Science | 6 |
| 3. | AET 04106 | Geometrical Drawing | 9 |
| 4. | AET 04107 | Basic Automobile Layout | 9 |
| 6. | AET 04108 | Basic Electrical and Electronics Systems | 6 |
| Fundamental Modules | | | |
| 7. | AET 04101 | Basics Mathematics | 9 |
| 8. | AET 04102 | Basic Business Communication | 9 |
| 9. | AET 04103 | Basic Computer Applications | 9 |
| Total Credits | | | 63 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | AET 04203 | Basic Engine Maintenance | 9 |
| 2. | AET 04204 | Basic Automobile Electrical and Electronics Systems | 9 |
| 3. | AET 04205 | Engineering Drawing | 12 |
| 4. | AET 04206 | Basic Workshop Technology | 12 |
| Fundamental Modules | | | |
| 5. | AET 04201 | Basic Engineering Mathematics | 9 |
| 6. | AET 04202 | Elements of Entrepreneurship | 9 |
| Total Credits | | | 60 |

(c) Award

Candidate who successfully completed the programme and wishes to exit is awarded the Basic Technician Certificate in Automobile Engineering of the National Institute of Transport.

8.3.2.2. Technician Certificate in Automobile Engineering

(a) Purpose of the Qualification

This qualification is intended for individuals who will diagnose simple problems in all types of motor vehicles and carry out corresponding repairs and maintenance efficiently and effectively; be able to communicate effectively through simple reports for routine and non-routine information; and make simple machine components.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | AET 05103 | Automotive Electrical & Electronic Systems | 6 |
| 2. | AET 05104 | Industrial Training | 12 |
| 3. | AET 05105 | Automotive Suspension and Steering Systems | 6 |
| 4. | AET 05106 | Automotive Brake Maintenance and Repair | 6 |
| 5. | AET 05107 | Materials Technology | 6 |
| 6. | AET 05108 | Machine Elements | 6 |
| 7. | AET 05109 | Strength of Materials | 6 |
| 8. | AET 05110 | Thermodynamics | 6 |
| Fundamental Modules | | | |
| 9. | AET 05101 | Basic Computing Mathematics | 9 |
| 10. | AET 05102 | Principal of Entrepreneurship | 6 |
| Total Credits | | | 69 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | AET 05203 | Computer Aided Drafting | 9 |
| 2. | AET 05204 | Automotive Transmission and Drive Train | 6 |
| 3. | AET 05205 | Automotive Air Fuel Systems | 6 |
| 4. | AET 05206 | Fundamentals of Automotive Maintenance and Repair | 6 |
| 5. | AET 05207 | Workshop Technology | 6 |
| 6. | AET 05208 | Locomotive Maintenance and Repair | 9 |
| 7. | AET 05209 | Automobile Heating and Air Conditioning | 6 |
| Fundamental Modules | | | |
| 8. | AET 05201 | Trigonometry and Statistics | 9 |
| 9. | AET 05208 | Principals of Procurement and Supply | 6 |
| Total Credits | | | 63 |

(c) Award

On successfully completion of the programme, a candidate who wishes to exit is awarded the Technician Certificate in Automobile Engineering of the National Institute of Transport.

8.3.2.3. Diploma in Automobile Engineering

(a) Purpose of the Qualification

This qualification is intended for persons who will diagnose problems in all types of motor vehicles for challenging repairs and overhauls and non-routine maintenances; be able to plan maintenance, organize and manage workshop activities.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|---------------------|-------------|--|---------|
| Core Modules | | | |
| 1. | AET 06103 | Basics of Workshop Management | 6 |
| 2. | AET 06104 | Electronic Ignition and Fuel Injection | 6 |
| 3. | AET 06105 | Internal Combustion Engine | 6 |
| 4. | AET 06106 | Advanced Locomotive Maintenance and Repair | 6 |
| 5. | AET 06107 | Fluid Power Systems | 6 |
| 6. | AET 06108 | Project Proposal | 9 |
| 7. | AET 06109 | Industrial Practical Training | 12 |

| Fundamental Modules | | | |
|----------------------------|-----------|---|-----------|
| 8. | AET 06101 | Computing Mathematics and Statistics | 9 |
| 9. | AET 06102 | Basic Programming with C/C ++ | 6 |
| Optional Modules | | | |
| 10. | AET 06110 | Road safety and Accidents Investigation | 6 |
| 11. | AET 06111 | Vehicle Inspection and Appraisal | 6 |
| 12. | AET 06112 | Railway Carriage Maintenance and Repair | 9 |
| Total Credits | | | 66 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | AET 06204 | Environment Engineering Management | 6 |
| 2. | AET 06205 | Workshop Management | 6 |
| 3. | AET 06206 | Automobile Body Works | 9 |
| 4. | AET 06207 | Railway Safety and Accidents Investigation | 6 |
| 5. | AET 06208 | Project Implementation | 12 |
| Fundamental Modules | | | |
| 6. | AET 06201 | Development Studies | 6 |
| 7. | AET 06202 | Basic Programming with MATLAB | 6 |
| 8. | AET 06203 | Advanced Computing Mathematics | 9 |
| Optional Modules | | | |
| 9. | AET 06209 | Vehicle Inspection and Driver Examinations | 6 |
| 10. | AET 06210 | Cargo Handling Systems and Equipment | 6 |
| 11. | AET 06211 | Heavy-Duty Equipment | 6 |
| Total Credits | | | 60 |

(c) Award

On successfully completion of the programme, a candidate is awarded the Diploma in Automobile Engineering of the National Institute of Transport.

General Course Programme for Mechanical Engineering

(a) Purpose of Qualification

This qualification is intended for persons who will be able to use knowledge and skills in applying Mechanical Engineering Principles and concepts to carry out Remedies and Supervision on Mechanical Engineering Industry for both Domestic and Commercial applications.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | MET 05206G | Workshop Technology | 6 |
| 2. | MET 04104G | Geometrical Drawing | 12 |
| 3. | MET 04103G | Basic Computer Applications | 9 |
| 4. | MET 05104G | Machine Elements | 6 |
| 5. | MET 05107G | Strength of Materials | 6 |
| 6. | MET 04204G | Basic Electric and Electronic System | 9 |
| 7. | MET 04105G | Engineering Materials | 6 |
| 8. | MET 05103G | Principles of DC Machines | 6 |
| 9. | MET 05105G | Engineering Measurement and Instrumentations | 6 |
| Total Credits | | | 66 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|--------------------------------------|-----------|
| Core Modules | | | |
| 1. | MET 04203G | Engineering Drawing | 9 |
| 2. | MET 06105G | Materials Technology | 6 |
| 3. | MET 05108G | Thermodynamics | 6 |
| 4. | MET 05108G | Fluid Power Systems | 6 |
| 5. | MET 05204G | Principles of AC Machine | 9 |
| 6. | MET 06207G | Environmental Engineering Management | 6 |
| 7. | MET 06103G | Production Engineering | 6 |
| 8. | MET 06205G | Foundry Technology | 6 |
| Total Credits | | | 54 |

8.3.3. Bachelor's Degree (NTA Level 7-8) Programme in Mechanical Engineering

8.3.3.1. Higher Diploma in Mechanical Engineering

(a) Purpose of the Qualification

This qualification is intended to persons, who will conduct a variety of mechanical engineering activities including design of machinery, machines, tools, mechanical equipment and components as well as organizing and directing the maintenance of the same in collaboration with other specialists in compliance with the technological changes.

(b) Summary of Modules**SEMESTER I**

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|--------------------------------------|-----------|
| Core Modules | | | |
| 1. | MEU 07109 | Communication Skills | 9 |
| 2. | MEU 07110 | Linear Algebra | 9 |
| 3. | MEU 07111 | Fundamentals of Computer Programming | 9 |
| 4. | MEU 07112 | Advanced Engineering Thermodynamics | 9 |
| 5. | MEU 07113 | Mechanics of Machines | 9 |
| 6. | MEU 07114 | Metal Cutting Processes | 15 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--------------------------------------|-----------|
| Core Modules | | | |
| 1. | MEU 07219 | Computer Aided Drafting Applications | 9 |
| 2. | MEU 07220 | Production Engineering | 9 |
| 3. | MEU 07221 | Fluid Mechanics | 9 |
| 4. | MEU 07222 | Strength of Materials | 9 |
| 5. | MEU 07223 | Analogue and Digital Electronics | 9 |
| 6. | MEU 07224 | Internal Combustion Engine | 9 |
| Fundamental Modules | | | |
| 7. | MEU 07217 | Integral Calculus | 9 |
| 8. | MEU 07218 | Development Studies | 9 |
| Total Credits | | | 72 |

SEMESTER III

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | MEU 07303 | Machine Design | 9 |
| 2. | MEU 07304 | Hydraulic and Pneumatic Systems Design | 9 |
| 3. | MEU 07305 | Foundry Technology | 9 |
| 4. | MEU 07307 | Refrigeration and Air Conditioning | 9 |
| 5. | MEU 07308 | Industrial Practical Training | 12 |
| 6. | MEU 07309 | Forming Processes | 9 |
| Fundamental Modules | | | |
| 7. | MEU 07301 | Differential Calculus | 9 |
| 8. | MEU 07302 | Procurement and Supply Procedures | 9 |
| Total Credits | | | 75 |

SEMESTER IV

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | MEU 07403 | Computer Aided Design | 9 |
| 2. | MEU 07408 | Measurement and Control Engineering | 9 |
| 3. | MEU 07409 | Materials Handling Design | 9 |
| 4. | MEU 07410 | Engineering Design Methodology | 9 |
| 5. | MEU 07411 | Power Plant | 9 |
| Elective Modules | | | |
| 6. | MEU 07412 | Industrial Design Engineering Technology | 9 |
| 7. | AEU 07418 | Agricultural Tractors and Machinery | 9 |
| 8. | AEU 07419 | Trucks, Tractors, and Heavy-Duty Equipment Technology | 9 |
| Fundamental Modules | | | |
| 9. | MEU 07406 | Probability and Statistics | 9 |
| 10. | MEU 07407 | Research Methodology | 9 |
| Total Credits | | | 90 |

(c) Award

On successful completion of the course, a candidate who wishes to exit is awarded the Higher Diploma in Mechanical Engineering of the National Institute of Transport.

8.3.3.2. Bachelor's Degree in Mechanical Engineering

(a) Purpose of the Qualification

This qualification is intended for persons, who will be able to utilize the knowledge and transform it into practices of skills, be able to work independently in various systems of mechanical engineering, observing the principles in variety of engineering activities of design, manufacturing and management including operational processes such as design, develop, build, and test mechanical devices, like tools, engines, and machines of all types.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|---------------------|-------------|--|---------|
| Core Modules | | | |
| 1. | MEU 08101 | Systems and Control Engineering | 9 |
| 2. | MEU 08103 | Engineering Operations Management | 9 |
| 3. | MEU 08107 | Industrial Automation | 9 |
| 4. | MEU 08108 | Industrial Practical Training | 12 |
| 5. | MEU 08109 | Machine System Reliability and Maintenance | 9 |

| | | | |
|----------------------------|------------|--------------------------------------|-----------|
| 6. | MEU 08110 | Project Conceptualization | 9 |
| 7. | MEU 08111 | Environmental and Safety Engineering | 6 |
| Fundamental Modules | | | |
| 8. | GSU 08106T | Laws for Engineers | 9 |
| Total Credits | | | 72 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-------------------------------------|-----------|
| Core Modules | | | |
| 1. | MEU 08209 | Renewable Energy Technologies | 6 |
| 2. | MEU 08210 | Computer Aided Manufacturing (CAM) | 9 |
| 3. | MEU 08212 | Quality Control and Assurance | 6 |
| 4. | MEU 08213 | Automation and Robotics | 9 |
| 5. | MEU 08214 | Project | 12 |
| 6. | MEU 08215 | Industrial Energy Management | 6 |
| Elective Modules | | | |
| 7. | MEU 08216 | Project Management | 9 |
| 8. | MEU 08217 | Risk Management | 9 |
| 9. | AEU 08209E | Road Traffic Accident Investigation | 12 |
| Fundamental Modules | | | |
| 10. | GSU 08214T | Entrepreneurship for Engineers | 9 |
| Total Credits | | | 87 |

(c) Award

On successful completion of the programme, candidate is awarded the Bachelor's Degree in Mechanical Engineering of the National Institute of Transport..

8.3.4. Ordinary Diploma in Mechanical Engineering

8.3.4.1. Basic Technician Certificate (NTA Level 4) in Mechanical Engineering

(a) Purpose of the Qualification

This qualification is intended for individuals who will diagnose faults/troubles in all types of motor vehicles and carry out simple routine repairs and maintenance services efficiently and effectively.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|------------------------------|-----------|
| Core Modules | | | |
| 1. | MET 04104 | Geometrical Drawing | 12 |
| 2. | MET 04105 | Engineering Materials | 6 |
| 3. | MET 04106 | Basics of Machine Elements | 6 |
| 4. | MET 04107 | Basic Engineering Science | 9 |
| Fundamental Modules | | | |
| 7. | MET 04101 | Basic Business Communication | 9 |
| 8. | MET 04102 | Basic Mathematics | 9 |
| 9. | MET 04103 | Basic Computer Applications | 9 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | MET 04203 | Engineering Drawing | 9 |
| 2. | MET 04204 | Basic Electrical and Electronics Systems | 9 |
| 3. | MET 04205 | Basic Production Engineering | 12 |
| 4. | MET 04206 | Basic Workshop Technology | 12 |
| Fundamental Modules | | | |
| 5. | MET 04201 | Basic Engineering Mathematics | 9 |
| 6. | MET 04202 | Elements of Entrepreneurship | 9 |
| Total Credits | | | 60 |

(c) Award

On successful completion of the programme a candidate who wishes to exit is awarded the Basic Technician Certificate in Mechanical engineering of the NIT.

8.3.4.2. Technician Certificate in Mechanical Engineering

(a) Purpose of the Qualification

This qualification is intended for individuals who will diagnose simple problems in all types of motor vehicles and carry out corresponding repairs and maintenance efficiently and effectively; be able to communicate effectively through simple reports for routine and non-routine information and will be able to make simple machine components.

(b) Summary of Modules**SEMESTER I**

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | MET 05103 | Principles of D.C. Machines | 6 |
| 2. | MET 05104 | Machine Elements | 6 |
| 3. | MET 05105 | Engineering Measurements & Instrumentation | 6 |
| 4. | MET 05106 | Materials Technology | 6 |
| 5. | MET 05107 | Strength of Materials | 6 |
| 6. | MET 05108 | Thermodynamics | 6 |
| 7. | MET 05109 | Industrial Practical Training | 12 |
| Fundamental Modules | | | |
| 8. | MET 05101 | Basic Computing Mathematics | 9 |
| 9. | MET 05102 | Principles of Entrepreneurship | 6 |
| Total Credits | | | 63 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--------------------------------------|-----------|
| Core Modules | | | |
| 1. | MET 05203 | Railway Wagon Maintenance and Repair | 9 |
| 2. | MET 05204 | Principles of A. C. Machines | 9 |
| 3. | MET 05205 | Engineering Science | 6 |
| 4. | MET 05206 | Workshop Technology | 6 |
| 5. | MET 05207 | Maintenance Management | 6 |
| 6. | MET 05208 | Computer Aided Drafting | 9 |
| Optional Modules | | | |
| 7. | MET 05209 | Locomotive Maintenance and Repair | 9 |
| Fundamental Modules | | | |
| 8. | MET 05201 | Trigonometry and Statistics | 9 |
| 9. | MET 05202 | Principles of Procurement and supply | 6 |
| Total Credits | | | 69 |

(c) Award

On successfully completion of the programme a candidate who wishes to exit is awarded the Technician Certificate in Mechanical engineering of the NIT.

8.3.4.3. Diploma in Mechanical Engineering

(a) Purpose of the Qualification

This qualification is intended for persons who will diagnose problems in all types of motor vehicles for challenging repairs and overhauls and non-routine maintenances; be able to plan maintenance, organize and manage workshop activities.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | MET 06103 | Production Engineering | 6 |
| 2. | MET 06104 | Basics of Refrigeration Systems | 6 |
| 3. | MET 06105 | Farm Power and Machinery | 6 |
| 4. | MET 06106 | Fluid Power Systems | 6 |
| 5. | MET 06107 | Basics of Automation | 3 |
| 6. | MET 06108 | Railway Carriage Maintenance and Repair | 9 |
| 7. | MET 06109 | Project Proposal | 9 |
| 8. | MET 06110 | Industrial Practical Training | 12 |
| Fundamental Modules | | | |
| 9. | MET 06101 | Basic Programming with C/C++ | 6 |
| 10. | MET 06102 | Computing Mathematics and Statistics | 9 |
| Total Credits | | | 72 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--------------------------------------|-----------|
| Core Modules | | | |
| 1. | MET 06204 | Industrial Control Systems | 6 |
| 2. | MET 06205 | Foundry Technology | 6 |
| 3. | MET 06206 | Air Conditioning | 6 |
| 4. | MET 06207 | Environmental Engineering Management | 6 |
| 5. | MET 06208 | Basic Operation Management | 6 |
| 6. | MET 06209 | Project Implementation | 12 |
| Fundamental Modules | | | |
| 7. | MET 06201 | Development Studies | 6 |
| 8. | MET 06202 | Basic Programming with MATLAB | 6 |
| 9. | MET 06203 | Advanced Computing Mathematics | 9 |
| Total Credits | | | 63 |

(c) Award

On successful completion of the programme a candidate is awarded the Diploma in Mechanical Engineering of the National Institute of Transport.

8.3.5. Diploma in Electrical Engineering

8.3.5.1. Basic Technician Certificate (NTA Level 4) in Electrical Engineering

(a) **Purpose of the Qualification**

This qualification is intended for persons who will work under supervision to install, construct, maintain, diagnose, repair, and modify simple electrical systems.

(b) **Summary of Modules**

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-----------------------------------|-----------|
| Core Modules | | | |
| 1. | EET 04101 | Basic Electricity | 9 |
| 2. | ETT 04101 | Analogue Electronics | 12 |
| 3. | EET 04102 | Workshop Technology and Practice. | 12 |
| 4. | EET 04103 | Printed Circuit Board Techniques | 6 |
| 5. | EET 04104 | Electrical Measurements I | 6 |
| Fundamental Modules | | | |
| 6. | GST 04101 | Advanced Mathematics I | 5 |
| 7. | GST 04102 | Physical Sciences I | 3 |
| 8. | GST 04103 | Communication Skills | 2 |
| 9. | GST 04104 | Entrepreneurship I | 3 |
| 10. | GST 04105 | Basic Computer Application I | 2 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-----------------------------------|-----------|
| Core Modules | | | |
| 1. | EET 04201 | Electrical Material | 6 |
| 2. | ETT 04201 | Digital Electronics | 12 |
| 3. | EET 04202 | Workshop Technology & Practice II | 12 |
| 4. | EET 04204 | Electrical Measurements II | 6 |
| 5. | IPTU 04 | Industrial Practical Training | 10 |
| Fundamental Modules | | | |
| 6. | GST 04201 | Advanced Mathematics II | 5 |
| 7. | GST 04202 | Physical Sciences II | 3 |
| 8. | GST 04203 | Communication Skills II | 2 |
| 9. | GST 04204 | Entrepreneurship II | 3 |
| 10. | GST 04205 | Basic Computer Application II | 2 |
| Total Credits | | | 61 |

(c) **Award**

On successful completion of the programme candidate who wishes to exit is awarded the Basic Technician Certificate in Electrical Engineering of the National Institute of Transport.

8.3.5.2. Technician Certificate in Electrical Engineering

(a) **Purpose of the Qualification**

This qualification is intended for persons who will work under minimum supervision to design, install, construct, maintain diagnose, repair and modify simple and medium scale electrical systems.

(b) **Summary of Modules**

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---------------------------------|-----------|
| Core Modules | | | |
| 1. | EET 05101 | DC Machines | 9 |
| 2. | ETT 05101 | Electronics Devices and Circuit | 7 |
| 3. | ETT 05102 | Computer Aided Design Tools | 6 |
| 4. | EET 05102 | Workshop Practice I | 9 |
| 5. | EET 05103 | Electromagnetism | 4 |
| 6. | EET 05104 | Control Engineering | 6 |
| Fundamental Modules | | | |
| 7. | GST 05101 | Advanced Mathematics I | 3 |
| 8. | GST 05102 | Physical Sciences I | 3 |
| 9. | GST 05103 | Communication Skills | 2 |
| 10. | GST 05104 | Entrepreneurship I | 2 |
| 11. | GST 05105 | Basic Computer Application I | 2 |
| Total Credits | | | 53 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|------------------------------|---------|
| Core Modules | | | |
| 1. | EET 05201 | Transformer | 9 |
| 2. | ETT 05201 | Digital Technology | 7 |
| 3. | ETT 05202 | Power Electronics | 6 |
| 4. | EET 05202 | Workshop Practice. II | 9 |
| 5. | EET 05203 | Electrical Power Utilization | 6 |
| 6. | EET 05204 | Power plants Engineering | 8 |
| 7. | IPTU 05 | Industrial Training | 10 |
| Fundamental Modules | | | |
| 8. | GST 05201 | Advanced Mathematics II | 3 |
| 9. | GST 05202 | Physical Sciences II | 3 |

| | | | |
|----------------------|-----------|-------------------------------|-----------|
| 10. | GST 05203 | Communication Skills II | 2 |
| 11. | GST 05204 | Entrepreneurship II | 2 |
| 12. | GST 05205 | Basic Computer Application II | 2 |
| Total Credits | | | 63 |

(c) Award

On successful completion of the programme a candidate who wishes to exit is awarded the Technician Certificate in Electrical Engineering of the National Institute of Transport.

8.3.5.3. Diploma in Electrical Engineering

(a) Purpose of the Qualification

This qualification is intended for persons who will work independently to design and supervise electrical installations, constructions, innovations, maintenance, repair and assist in research activities under some supervision.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | ETT 06101 | Analogue Electronics Design | 10 |
| 2. | ETT 06102 | Applied Microcontrollers | 8 |
| 3. | ETT 06103 | Television and Video Engineering | 12 |
| 4. | ETT 06104 | Radar and Navigation Systems | 10 |
| 5. | EET 06103 | Automation | 8 |
| 6. | EET 06106 | Project I | 4 |
| Fundamental Modules | | | |
| 7. | GST 06101 | Coordinate Geometry and Differential Equations | 4 |
| 8. | GST 06102 | Correspondence, Interpersonal Skills and Report Writing | 4 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | GST 06201 | Linear Programming, Statistics and Probability | 3 |
| 2. | GST 06204 | Enterprise Management | 6 |
| 3. | ETT 06201 | Telephony and Switching | 10 |
| 4. | ETT 06202 | Microwave Technology | 9 |
| 5. | ETT 06203 | Communication Systems | 9 |
| 6. | ETT 06204 | Satellite Communication | 9 |
| 7. | EET 06207 | Project II | 4 |
| 8. | IPTU 06 | Industrial Practical Training | 10 |
| Total Credits | | | 60 |

(c) **Award**

On successful completion of the programme a candidate is awarded the Diploma in Electrical Engineering of the National Institute of Transport.

8.3.6. Diploma in Electronics and Telecommunication Engineering

8.3.6.1. Basic Technician Certificate (NTA Level 4) in Electronics and Telecommunication Engineering

(a) **Purpose of the Qualification**

This qualification is intended for persons who will work under supervision to install, construct, maintain, diagnose, repair, and modify simple electrical systems.

(b) **Summary of Modules**

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-----------------------------------|-----------|
| Core Modules | | | |
| 1. | EET 04101 | Basic Electricity | 9 |
| 2. | ETT 04101 | Analogue Electronics | 12 |
| 3. | EET 04102 | Workshop Technology and Practice. | 12 |
| 4. | EET 04103 | Printed Circuit Board Techniques | 6 |
| 5. | EET 04104 | Electrical Measurements I | 6 |
| Fundamental Modules | | | |
| 6. | GST 04101 | Algebra and Trigonometry | 5 |
| 7. | GST 04102 | Mechanics and Nuclear Physics | 6 |
| 8. | GST 04103 | English Language Basics | 4 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--------------------------------|-----------|
| Core Modules | | | |
| 1. | EET 04201 | Electrical Material | 6 |
| 2. | ETT 04201 | Digital Combinational Circuits | 11 |
| 3. | ETT 04202 | Telecommunication Principles | 12 |
| 4. | EET 04204 | Electrical Measurements II | 6 |
| 5. | IPTU 04 | Industrial Training | 10 |
| Fundamental Modules | | | |
| 6. | GST 04201 | Series and Boolean Algebra | 5 |
| 7. | GST 04202 | Gender and HIV | 4 |
| 8. | GST 04203 | Microcomputer Application | 6 |
| Total Credits | | | 60 |

(c) **Award**

On successful completion of the programme a candidate who wishes to exit is awarded the Basic Technician Certificate in Electronics and Telecommunication Engineering of the National Institute of Transport.

8.3.6.2. Technician Certificate in Electronics and Telecommunication Engineering

(a) **Purpose of Qualification**

This qualification is intended for persons who will work under minimum supervision to design, install, construct, maintain diagnose, repair and modify simple and medium scale Electronics and Telecommunication systems.

(b) **Summary of Modules**

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | ETT 05101 | Analogue Electronics Devices and Circuit | 7 |
| 2. | ETT 05102 | Computer Aided Design Tools | 6 |
| 3. | ETT 05103 | Television Technology | 9 |
| 4. | ETT 05104 | Antennas and Transmission Lines | 9 |
| 5. | EET 05103 | Electromagnetism | 4 |
| 6. | EET 05104 | Control Engineering | 6 |
| Fundamental Modules | | | |
| 7. | GST 05101 | Differentiation and Integration | 5 |
| 8. | GST 05102 | Thermal Energy, Waves and Organic Compounds | 6 |
| 9. | GST 05103 | Introduction to Programming Using C | 6 |
| Total Credits | | | 58 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-------------------------------|-----------|
| Core Modules | | | |
| 1. | ETT 05201 | Digital Sequential Circuits | 9 |
| 2. | ETT 05202 | Power Electronics | 6 |
| 3. | ETT 05203 | Data Communication | 8 |
| 4. | ETT 05204 | Instrumentation | 8 |
| 5. | ETT 05205 | Radio Transmission Systems | 8 |
| 6. | IPTU 05 | Industrial Training | 10 |
| Fundamental Modules | | | |
| 7. | GST 05201 | Matrices, Complex and Vectors | 5 |
| 8. | GST05202 | English Language Skills | 4 |
| 9. | GST 05203 | Basics of Entrepreneurship | 4 |
| 10. | GST 05204 | Introduction to Networking | 4 |
| Total Credits | | | 64 |

(c) **Award**

On successful completion of the programme a candidate who wishes to exit is awarded the Technician Certificate in Electronics and Telecommunication Engineering of the National Institute of Transport.

8.3.6.3. Diploma in Electronics and Telecommunication Engineering

(a) **Purpose of the Qualification**

This qualification is intended for persons who will work independently to design and supervise electrical installations, constructions, innovations, maintenance, repair and assist in research activities under some supervision.

(b) **Summary of Modules**

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | ETT 06101 | Analogue Electronics Design | 10 |
| 2. | ETT 06102 | Applied Microcontrollers | 8 |
| 3. | ETT 06103 | Television and Video Engineering | 12 |
| 4. | ETT 06104 | Radar and Navigation Systems | 10 |
| 5. | EET 06103 | Automation | 8 |
| 6. | EET 06106 | Project I | 4 |
| Fundamental Modules | | | |
| 7. | GST 06101 | Coordinate Geometry and Differential Equations | 4 |
| 8. | GST 06102 | Correspondence, Interpersonal Skills and Report Writing | 4 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | ETT 06201 | Telephony and Switching | 10 |
| 2. | ETT 06202 | Microwave Technology | 9 |
| 3. | ETT 06203 | Communication Systems | 9 |
| 4. | ETT 06204 | Satellite Communication | 9 |
| 5. | EET 06207 | Project II | 4 |
| 6. | IPTU 06 | Industrial Training | 10 |
| Fundamental Modules | | | |
| 7. | GST 06201 | Linear Programming, Statistics and Probability | 3 |
| 8. | GST 06204 | Enterprise Management | 6 |
| Total Credits | | | 60 |

(c) **Award**

On successful completion of the programme a candidate is awarded the Diploma in Electronics and Telecommunication Engineering of the National Institute of Transport.

8.3.7. Diploma in Auto-Electrical and Electronic Engineering

8.3.7.1. Basic Technician Certificate (NTA Level 4) in Auto-Electrical and Electronic Engineering

(a) **Purpose of the Qualification**

This qualification is intended for persons who will work under supervision to maintain and repair Auto-electrical and electronic systems in the workshop.

(b) **Summary of Modules**

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | MET 04101 | Basics of Engineering Drawing | 5 |
| 2. | MET 04102 | Mechanical Engineering Materials | 9 |
| 3. | AET 04101 | Basics of Automotive Technology. | 12 |
| 4. | MET 04105 | Basics of Manufacturing Engineering | 13 |
| 5. | AET 04102 | Fundamentals of Electrical and Electronics Engineering | 8 |
| Fundamental Modules | | | |
| 6. | GST 04101 | Algebra and Trigonometry | 5 |
| 7. | GST 04102 | Mechanics and Nuclear Physics | 6 |
| 8. | GST 04103 | English Language Basics | 4 |
| Total Credits | | | 62 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | MET 04201 | Pictorial, Orthographic and Auxiliary Projections | 5 |
| 2. | MET 04203 | Mechanical Engineering Science | 6 |
| 3. | AET 04203 | Automotive Systems Operation and Maintenance | 12 |
| 4. | MET 04205 | Machine Tools/Process and Maintenance | 12 |
| 5. | MET 04206 | Industrial Practical Training | 10 |
| Fundamental Modules | | | |
| 6. | GST 04201 | Series and Boolean Algebra | 5 |
| 7. | GST 04202 | Gender and HIV | 4 |
| 8. | GST 04203 | Microcomputer Application | 6 |
| Total Credits | | | 60 |

(c) **Award**

On successful completion of the programme, a candidate who wishes to exit is awarded the Basic Technician Certificate in Auto-Electrical and Electronic Engineering of the National Institute of Transport.

8.3.7.2. Technician Certificate in Auto-Electrical and Electronic Engineering

(a) Purpose of the Qualification

This qualification is intended for persons who will be able to apply engineering principles in diagnostic, repair and maintenance works of machines, engine management systems and perform diagnosis using scan tool under minimum supervision.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | MET 05101 | Development and Interpenetration | 6 |
| 2. | MET 05102 | Strength of Materials | 4 |
| 3. | MET 05103 | Welding and Metal Fabrication | 10 |
| 4. | MET 05104 | Basics of Machine Elements and Design | 5 |
| 5. | MET 05107 | Engineering Thermodynamics | 4 |
| 6. | AET 05105 | Basics of Engine Management | 12 |
| Fundamental Modules | | | |
| 7. | GST 05101 | Differentiation and Integration | 5 |
| 8. | GST 05102 | Thermal Energy, Waves and Organic Compounds | 6 |
| 9. | GST 05103 | Introduction to Programming Using C language | 6 |
| Total Credits | | | 58 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | MET 05206 | Detail and Assembly Drawing | 6 |
| 2. | AET 05206 | Basics of Automotive Diagnosis | 12 |
| 3. | MET 05207 | Foundry and Metal Forming | 10 |
| 4. | MET 05208 | Fluid Mechanics | 3 |
| 5. | MET 05209 | Measurements, Instrumentation and Control technology | 5 |
| 6. | AET 05207 | Industrial Practical Training | 10 |
| Fundamental Modules | | | |
| 7. | GST 05201 | Matrices, Complex and Vectors | 5 |
| 8. | GST05202 | English Language Skills | 4 |
| 9. | GST 05203 | Basics of Entrepreneurship | 4 |
| 10. | GST 05204 | Introduction to Networking | 4 |
| 12. | GST 05205 | Basic Computer Application II | 2 |
| Total Credits | | | 63 |

(c) Award

On successful completion of the programme a candidate who wishes to exit is awarded the Technician Certificate in Auto-Electrical and Electronic Engineering of the National Institute of Transport.

8.3.7.3. Diploma in Auto-Electrical and Electronic Engineering

(a) Purpose of the Qualification

This qualification is intended for persons who will work independently under minimum supervision to carry out vehicle systems maintenance and emission system and be able to apply such skills and knowledge in automotive service industry in a broad range of activities.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | AET 06112 | Automotive Diagnosis | 8 |
| 2. | AET 06113 | Charging and Starting Systems Services | 8 |
| 3. | AET 06114 | Basic Electrical Test Procedures | 7 |
| 4. | AET 06115 | Ignition and Engine Control Systems Service | 7 |
| 5. | AET 06116 | Electrical Faults and Test Equipment | 5 |
| 6. | AET 06117 | Electrical and Electronic principles | 7 |
| 7. | AET 06118 | Project Design | 5 |
| 8. | MET 06101 | Fundamental of CAD | 6 |
| Fundamental Modules | | | |
| 9. | GST 06101 | Coordinate Geometry and Differential Equations | 6 |
| 10. | GST 06102 | Correspondence and Report Writing | 4 |
| Total Credits | | | 63 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | MET 06208 | 3D Modeling using SOLID WORKS Software | 6 |
| 2. | AET 06219 | Electrical and Electronic Accessories Service | 10 |
| 3. | AET 06220 | Maintenance and repair of Auto-electronic fuel injection | 8 |
| 4. | AET 06221 | Auto electric and electronic pollution control | 4 |
| 5. | AET 06222 | Auto electric and electronic workshop management | 8 |
| 6. | AET 06223 | Project work | 4 |
| 7. | AET 06224 | Automotive instrumentation and communication | 8 |
| 8. | IPTU 06 | Industrial Practical Training | 10 |
| Fundamental Modules | | | |
| 9. | GST 06201 | Linear Programming, Statistics and Probability | 6 |
| 10. | GST 06204 | Enterprise Management | 6 |
| Total Credits | | | 72 |

(c) **Award**

On successful completion of the programme, a candidate is awarded a Diploma in Auto-Electrical and Electronic Engineering of the National Institute of Transport.

8.3.8. Ordinary Diploma in Shipbuilding and Repair

8.3.8.1. Basic Technician Certificate (NTA Level 4) in Shipbuilding and Repair

(a) **Purpose of the Qualification**

This qualification is intended for persons who will perform routine shipbuilding and repair activities such as welding, painting, cutting, bending etc.

(b) **Summary of Modules**

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | SRT 04104 | Ship Knowledge and Equipment | 9 |
| 2. | SRT 04105 | Shipyards Layout and Safety | 9 |
| 3. | SRT 04106 | Basic Engineering Science | 6 |
| 4. | SRT 04107 | Basic Ship Structure | 6 |
| 5. | SRT 04108 | Basic Material Technology | 6 |
| 6. | SRT 04109 | Basic Marine Electrical and Electronics | 6 |
| Fundamental Modules | | | |
| 7. | SRT 04101 | Maritime communicative English | 6 |
| 8. | SRT 04102 | Basic Mathematics | 9 |
| 9. | SRT 04103 | Basic Computer Knowledge | 6 |
| Total Credits | | | 75 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-------------------------------|-----------|
| Core Modules | | | |
| 1. | SRT 04212 | Heavy Lift Operations | 6 |
| 2. | SRT 04213 | Marine Painting Technology | 9 |
| 3. | SRT 04214 | Basic Ship Construction | 9 |
| 4. | SRT 04215 | Basic Welding Practice | 9 |
| 5. | SRT 04216 | Basic Ship Stability | 6 |
| 6. | SRT 04217 | Basic Engineering Drawing | 9 |
| 7. | SRT 04218 | Basic Workshop Technology | 6 |
| Fundamental Modules | | | |
| 8. | SRT 04210 | Basics of Entrepreneurship | 6 |
| 9. | SRT 04211 | Basic Engineering Mathematics | 9 |
| Total Credits | | | 69 |

(c) Award

On successful completion of the programme candidate who wishes to exit is awarded the Basic Technician Certificate in Electrical Engineering of the National Institute of Transport.

8.3.8.2. Technician Certificate in Shipbuilding and Repairs

(a) Purpose of the Qualification

This qualification is intended for persons who will perform routine and non-routine shipbuilding and repair activities such as maintenance, troubleshooting, repair, and component replacement of ship design and construction, hydraulic and related powered equipment.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | SRT 05103 | Fluid Mechanics | 9 |
| 2. | SRT 05104 | Basic Computer Aided Drafting and Application | 9 |
| 3. | SRT 05105 | Foundry Technology | 9 |
| 4. | SRT05106 | Marine Electro-Technology | 6 |
| 5. | SRT 05107 | Basics of Ship Vibration | 6 |
| 6. | SRT 05108 | Shipyards Field Attachment | 12 |
| Fundamental Modules | | | |
| 7. | SRT 05101 | Basic Computer Application | 9 |
| 8. | SRT 05102 | Basic Computing Mathematics | 9 |
| Total Credits | | | 69 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | SRT 05212 | Ship Construction | 6 |
| 2. | SRT 05213 | Ship Structural Repair | 9 |
| 3. | SRT 05214 | Wooden Boat Technology | 6 |
| 4. | SRT 05215 | Basic Ship Design | 6 |
| 5. | SRT 05216 | Strength of Materials | 6 |
| 6. | SRT 05217 | Rational Mechanics | 9 |
| Fundamental Modules | | | |
| 7. | SRT 05209 | Principles of Entrepreneurship | 6 |
| 8. | SRT 05210 | Principle of Procurement and Supply Techniques | 6 |
| 9. | SRT 05211 | Trigonometry and Statistics | 9 |
| Total Credits | | | 63 |

(c) **Award**

On successful completion of the programme a candidate who wishes to exit is awarded the Technician Certificate in Shipbuilding and Repair of the National Institute of Transport.

8.3.8.3. Diploma in Shipbuilding and Repairs

(a) **Purpose of the Qualification**

This qualification is intended for persons, who will perform a broad range of activities most of which being non- routine. The activities carried are in the fields of maintenance, production, service, and repair. This includes install layout and use machines for manufacturing of engineering components, estimates resources required and apply entrepreneurship and ICT knowledge to solve engineering problems.

(b) **Summary of Modules**

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | SRT 06102 | Basics of Ship Hydrodynamics | 6 |
| 2. | SRT 06103 | Ship Propulsion | 6 |
| 3. | SRT 06104 | Composite Material Technology | 6 |
| 4. | SRT06105 | Ship Stability | 6 |
| 5. | SRT 06106 | Ship Structure | 6 |
| 6. | SRT 06107 | Ship Design Methodology | 9 |
| 7. | SRT 06108 | Project Proposal | 6 |
| 8. | SRT 06109 | Marine Diesel Engine and Auxiliary Machinery | 6 |
| 9. | SRT 06110 | Shipyards Field Attachment | 12 |
| Fundamental Modules | | | |
| 10. | SRT 06101 | Computing Mathematics Statistics | 9 |
| Total Credits | | | 72 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|---------------------|-------------|---|---------|
| Core Modules | | | |
| 1. | SRT 06213 | Small Craft Design | 6 |
| 2. | SRT 06214 | Shipyards Project Management | 9 |
| 3. | SRT 06215 | Ship Construction Legislation and Convention | 6 |
| 4. | SRT 06216 | Ship Forms and Model Project | 6 |
| 5. | SRT 06217 | Ship Structural Design | 6 |
| 6. | SRT 06218 | Marine Surveying | 6 |
| 7. | SRT 06219 | Cathodic Protection | 6 |
| 8. | SRT 06220 | Shipyards Planning, Management and Leadership | 6 |

| | | | |
|----------------------------|-----------|--------------------------------|-----------|
| 9. | SRT 06221 | Project Implementation | 9 |
| Fundamental Modules | | | |
| 10. | SRT 06211 | Advanced Computing Mathematics | 9 |
| 11. | SRT 06212 | Development Studies | 6 |
| Total Credits | | | 75 |

(c) Award

Candidate who successfully completed the programme is awarded the Diploma in Shipbuilding and Repair of the National Institute of Transport.

8.3.9. Ordinary Diploma in Pipe works, Oil and Gas Engineering

8.3.9.1. Basic Technician Certificate (NTA Level 4) in Pipe works, Oil and Gas Engineering

(a) Purpose of Qualification

This qualification is intended for a person who will carry out repairs and maintenance services of Pipe works, Oil and Gas systems components in state of art technology.

(b) Modules Summary

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|--|-------------|---|-----------|
| Core Modules | | | |
| 1. | MET 04121 | Materials for Pipe works, Oil and Gas Engineering | 9 |
| 2. | MET 04122 | Plumbing Components Preparation and Assembling | 12 |
| 3. | MET 04123 | Fundamentals of Electrical Engineering Science | 5 |
| 4. | MET 04124 | Safe works Practices | 9 |
| 5. | MET 04125 | Fundamentals of Manufacturing Engineering | 12 |
| 6. | MET 04101 | Basics of Engineering Drawing | 5 |
| Fundamental Modules | | | |
| 7. | GST 04101 | Algebra and Trigonometry | 5 |
| 8. | GST 04102 | Mechanics and Nuclear Physics | 6 |
| 9. | GST 04103 | English Language Basics | 4 |
| Total Credit Hours for Semester I | | | 67 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|---------------------|-------------|---|---------|
| Core Modules | | | |
| 1. | MET 04201 | Pictorial, Orthographic and Auxiliary Projections | 5 |
| 2. | MET 04203 | Mechanical Engineering Science | 6 |
| 3. | MET 04223 | Water Service and Distribution Systems Installation | 12 |
| 4. | MET 04224 | Private Sewage Systems Installation | 12 |
| 5. | MET 04225 | Industrial Practical Training | 10 |

| Fundamental Modules | | | |
|---|-----------|----------------------------|-----------|
| 6. | GST 04201 | Series and Boolean Algebra | 5 |
| 7. | GST 04202 | Gender and HIV | 4 |
| 8. | GST 04203 | Microcomputer Application | 6 |
| Total Credit Hours for Semester II | | | 60 |

(c) Award

On successful completion of the programme a candidate who wishes to exit is awarded the Basic Technician Certificate in Pipe works, Oil and Gas Engineering of the National Institute of Transport.

8.3.9.2. Technician Certificate in Pipe works, Oil and Gas Engineering

(a) Purpose of the Qualification

This qualification is intended for persons who will be able to design, interpret simple engineering drawings including identify problems and related solutions in piping systems, machines and equipments as well as applying engineering principles in manufacturing, repairing and maintaining piping systems, machines and equipment under supervision. Further to that, they should also be able to apply workshop safety precautions, ICT and entrepreneurship knowledge in solving Pipe Works, Oil and gas engineering problems.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | MET 05101 | Sectioning, Development and Interpenetration | 6 |
| 2. | MET 05102 | Strength of Materials | 4 |
| 3. | MET 05103 | Welding and Metal Fabrication | 12 |
| 4. | MET 05104 | Basics of Machine Elements and Design | 5 |
| 5. | MET 05105 | Engineering Thermodynamics | 4 |
| 6. | MET 05106 | Low and High pressure steam piping systems | 12 |
| 7. | MET 05107 | Fire protection piping systems | 7 |
| Fundamental Modules | | | |
| 8. | GST 05101 | Differential and Integration | 5 |
| Total Credits | | | 55 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|---------------------|-------------|---|---------|
| Core Modules | | | |
| 1. | MET 05206 | Detail and Assembly Drawing | 6 |
| 2. | MET 05208 | Fluid Mechanics | 3 |
| 3. | MET 05211 | Hydraulic and Compressed air piping systems | 12 |

| | | | |
|----------------------------|-----------|---|-----------|
| 4. | MET 05212 | Measurements, Instrumentation and Control of piping systems | 12 |
| 5. | MET 05213 | Fuel oil piping systems | 12 |
| 6. | MET 05214 | Industrial Training | 10 |
| Fundamental Modules | | | |
| 7. | GST 05201 | Matrices, Complex Numbers and Vectors | 5 |
| 8. | GST 05202 | English Language Skills | 4 |
| 9. | GST 05203 | Basics of Entrepreneurship | 4 |
| Total Credits | | | 68 |

(c) Award

On successful completion of the programme a candidate who wishes to exit is awarded the Technician Certificate in Pipe works, Oil and Gas Engineering of the National Institute of Transport.

8.3.9.3. Diploma in Pipe works, Oil and Gas Engineering

(a) Purpose of the Qualification

This qualification is intended for persons who will be able to use knowledge and skills in applying Piping and Gas Principles and concepts to carry out Remedies and Supervision on Piping and Gas Industry for both Domestic and Commercial applications.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | MET 06101 | Fundamentals of 3D Modeling Using Computer Aided Design (CAD) Software | 6 |
| 2. | MET 06102 | Machine Elements and Design | 6 |
| 3. | MET 06108 | Fundamental of Gas Technology | 4 |
| 4. | MET 06109 | Gas Piping, Operation and System Planning | 10 |
| 5. | MET 06110 | Domestic and Commercial Gas Fired Appliances | 10 |
| 6. | MET 06106 | Environmental Engineering | 4 |
| 7. | MET 06111 | Gas Engineering Project - Design | 10 |
| Fundamental Modules | | | |
| 8. | GST 06101 | Coordinate Geometry and Differential Equations | 6 |
| 9. | GST 06102 | Correspondence and Report Writing | 4 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | MET 06208 | 3D Modeling Using Computer Aided Design Software | 10 |
| 2. | MET 06214 | Solar Thermo Energy Systems | 10 |
| 3. | MET 06215 | Gas Engineering Project - Production | 10 |
| 4. | MET 06216 | Principals of Gas Controls | 10 |
| 5. | MET 06217 | Workplace Management | 6 |
| 6. | MET 06213 | Industrial Practical Training III | 10 |
| Fundamental Modules | | | |
| 7. | GST 06201 | Linear Programming, Statistics and Probability | 6 |
| 8. | GST 06202 | Enterprise Management | 6 |
| Total Credits | | | 68 |

(c) Award

On successful completion of the programme candidate is awarded the Diploma in Pipe works, Oil and Gas Engineering of the National Institute of Transport.

General Course Programme for Naval Architecture and Marine Engineering

(a) Purpose of Qualification

This qualification is intended for persons who will be able to use knowledge and skills in applying Naval Architecture and Marine Engineering Principles and concepts to carry out Remedies and Supervision on Naval Architecture and Marine Engineering Industry for both Domestic and Commercial applications.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|------------------------------|-----------|
| Core Modules | | | |
| 1. | SRT 04104G | Ship Knowledge and Equipment | 9 |
| 2. | SRT 06103G | Ship Propulsion | 6 |
| 3. | SRT 06102G | Basics of Ship Hydrodynamics | 6 |
| 4. | SRT 06105G | Ship Stability | 6 |
| 5. | SRT 06107G | Ship Design Methodology | 9 |
| 6. | SRT 04217G | Basic Engineering Drawing | 9 |
| 7. | SRT 04105G | Shipyards Layout and Safety | 9 |
| Fundamental Modules | | | |
| 8. | SRT 05101G | Basic Computer Applications | 9 |
| Total Credits | | | 63 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | SRT 06215G | Ship Construction, Legislations & Convention | 6 |
| 2. | SRT 05104G | Basic Computer Aided Drafting and Application | 9 |
| 3. | SRT 06216G | Ship Forms and Model Project | 6 |
| 4. | SRT 06217G | Ship Structural Design | 6 |
| 5. | SRT 05216G | Strength of Materials | 6 |
| 6. | SRT 04218G | Basic Workshop Technology | 6 |
| 7. | SRT 05214G | Wooden Boat Technology | 6 |
| 8. | SRT 04215G | Basic Welding Practice | 9 |
| 9. | SRT 04213G | Marine Painting Technology | 9 |
| Total Credits | | | 63 |

8.3.10. Bachelor's Degree (NTA Level 7-8) Programme in Naval Architecture and Marine Engineering

8.3.10.1. Higher Diploma (NTA Level 7) in Naval Architecture and Marine Engineering

(a) Purpose of Qualification

This qualification is intended for a person, who will acquire knowledge, attitude, skills and transform into practices, work independently in various systems of Naval architecture and Marine engineering underpinning knowledge of ship structure, shipbuilding, shipyard management, propulsion system and auxiliary machinery, marine operation, watchkeeping, marine surveying and marine consultancy as well as maritime administration.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---------------------------------------|-----------|
| Core Modules | | | |
| 1. | NMU 07104 | Strength of Materials | 9 |
| 2. | NMU 07105 | Engineering Thermodynamics | 9 |
| 3. | NMU 07106 | Marine Electro-Technology | 6 |
| 4. | NMU 07107 | Ship Structure | 6 |
| 5. | NMU 07108 | Diesel Engine and Auxiliary Machinery | 6 |
| 6. | NMU 07109 | Fluid Mechanics | 9 |
| Fundamental Modules | | | |
| 7. | NMU 07101 | Communication Skills | 6 |
| 8. | NMU 07102 | Linear Algebra | 6 |
| 9. | NMU 07103 | Computer Programming with C++ | 6 |
| Total Credits | | | 63 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-------------------------------|-----------|
| Core Modules | | | |
| 1. | NMU 07203 | Cathodic Protection | 6 |
| 2. | NMU 07204 | Shipbuilding Operation | 6 |
| 3. | NMU 07205 | Ship Hydrostatics | 9 |
| 4. | NMU 07206 | Ship Design | 6 |
| 5. | NMU 07207 | Ship Resistant and Propulsion | 9 |
| 6. | NMU 07208 | Hydraulic Systems | 6 |
| 7. | NMU 07209 | Marine Mecatronics | 6 |
| 8. | NMU 07210 | Ship Hull Form Design | 9 |
| Fundamental Modules | | | |
| 9. | NMU 07201 | Integral Calculus | 6 |
| 10. | NMU 07202 | Development Studies | 6 |
| Total Credits | | | 69 |

SEMESTER III

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-------------------------------|-----------|
| Core Modules | | | |
| 1. | NMU 07302 | Industrial Practical Training | 12 |
| 2. | NMU 07303 | Ship Structural Dynamics | 6 |
| 3. | NMU 07304 | Ship Hydranamics | 9 |
| 4. | NMU 07305 | Marine Construction Materials | 6 |
| 5. | NMU 07306 | Ship Stability | 9 |
| 6. | NMU 07307 | Ship Structure and Scantling | 9 |
| 7. | NMU 07308 | Ship Construction | 9 |
| Fundamental Modules | | | |
| 8. | NMU 07301 | Differential Calculus | 6 |
| Total Credits | | | 66 |

SEMESTER IV

| S/No | Module Code | Module Name | Credits |
|---------------------|-------------|--|---------|
| Core Modules | | | |
| 1. | NMU 07403 | Small Craft Design | 6 |
| 2. | NMU 07404 | Ship Model Projects | 9 |
| 3. | NMU 07405 | Ship Stress Analysis | 9 |
| 4. | NMU 07406 | Ship Structural Maintenance and Repair | 9 |
| 5. | NMU 07407 | Refrigeration and Air Conditioning | 6 |
| 6. | EET 05104 | Control Engineering | 6 |

| Fundamental Modules | | | |
|----------------------------|-----------|----------------------------|-----------|
| 6. | NMU 07401 | Probability and Statistics | 6 |
| 7. | NMU 07402 | Research Methodology | 6 |
| Total Credits | | | 51 |

(c) Award

On successful completion of the programme, candidate who wishes to exit is awarded the Higher Diploma in Naval Architecture and Marine Engineering of the National Institute of Transport.

8.3.10.2. Bachelor's Degree (NTA Level 8) in Naval Architecture and Marine Engineering

(a) Purpose of the Qualification

This qualification is intended for a person, who will acquire knowledge, attitude, skills and transform into practices, work independently in various systems of Naval Architecture and Marine Engineering underpinning knowledge of ship structure, shipbuilding, shipyard management, propulsion system and auxiliary machinery, marine operation, watchkeeping, marine surveying, marine consultancy and assume management responsibilities.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-------------------------------|-----------|
| Core Modules | | | |
| 1. | NMU 08102 | Oceanography | 9 |
| 3. | NMU 08103 | Ship Energy Optimization | 9 |
| 4. | NMU 08104 | Power Plant | 9 |
| 5. | NMU 08105 | Ship Design Project | 12 |
| 6. | NMU 08106 | Industrial Practical Training | 12 |
| Fundamental Modules | | | |
| 7. | NMU 08101 | Law for Engineers | 9 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--------------------------------------|-----------|
| Core Modules | | | |
| 1. | NMU 08202 | Shipyard Management | 9 |
| 2. | NMU 08203 | Maritime Safety and Environment | 9 |
| 3. | NMU 08204 | Economics of Shipbuilding and Repair | 9 |
| 4. | NMU 08205 | Marine Surveying | 9 |
| 5. | NMU 08206 | Ship Manufacturing and Assembling | 9 |
| 6. | NMU 08207 | Shipbuilding Project | 12 |
| Fundamental Modules | | | |
| 7. | NMU 08201 | Entrepreneurship Skills | 6 |
| Total Credits | | | 63 |

(c) **Award**

On successful completion of the programme, a candidate is awarded the Bachelor's Degree (NTA Level 8) in Naval Architecture and Marine Engineering of the National Institute of Transport.

8.3.11. Diploma in Civil and Transportation Engineering

8.3.11.1. Basic Technician Certificate (NTA Level 4) in Civil and Transportation Engineering

(a) **Purpose of Qualifications**

This qualification is intended for persons who will perform simple and routine civil and Transportation Engineering activities in engineering services and production organizations.

(b) **Summary of Modules**

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | CTT 04105 | Construction Materials | 6 |
| 2. | CTT 04106 | Basic of Transportation Engineering | 6 |
| 3. | CTT 04107 | Basic Soil Mechanics | 9 |
| 4. | CTT 04108 | Basics of Technical Drawing | 9 |
| 5. | CTT 04109 | Workshop Technology (<i>Painting, Carpentry, Masonry and Plumbing</i>) | 9 |
| Fundamental Modules | | | |
| 6. | CTT 04101 | Basic Mathematics | 6 |
| 7. | CTT 04102 | Basic Communication Skills | 6 |
| 8. | CTT 04103 | Basic Computer Applications | 6 |
| 9. | CTT 04104 | Basic Engineering Physics | 6 |
| Total Credits | | | 63 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | CTT 04213 | Linear Surveying | 9 |
| 2. | CTT 04214 | Engineering Mechanics | 6 |
| 3. | CTT 04215 | Basic Railway Construction and Maintenance | 9 |
| 4. | CTT 04216 | Workshop Technology (<i>Electrical Installation and Air condition</i>) | 6 |
| 5. | CTT 04217 | Basic Road Construction and Maintenance | 6 |
| 6. | CTT 04218 | Building Construction and Maintenance | 6 |
| Fundamental Modules | | | |
| 7. | CTT 04210 | Basic Engineering Mathematics | 6 |
| 8. | CTT 04211 | Arc and Gas welding | 6 |
| 9. | CTT 04212 | Element of Entrepreneurship | 6 |
| Total Credits | | | 60 |

(c) Award

Upon successfully completion of the programme, a candidate who wishes to exit is awarded the Basic Technician Certificate in Civil and Transportation Engineering of the National Institute of Transport.

8.3.11.2. Technician Certificate (NTA Level 5) in Civil and Transportation Engineering programme

(a) Purpose of Qualification

This qualification is intended for person who will performe testing construction materials, constructing and maintaining civil transportation engineering structures.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | CTT 05104 | Land surveying | 9 |
| 2. | CTT 05105 | Hydraulics and Fluid Mechanics | 6 |
| 3. | CTT 05106 | Computer aided drafting | 6 |
| 4. | CTT 05107 | Structural Analysis | 6 |
| 5. | CTT 05108 | Geotechnics and foundation Engineering | 6 |
| 6. | CTT 05109 | Estimating and Costing | 6 |
| 7. | CTT 05110 | Industrial Practical Training | 12 |
| 8. | CTT 05111 | Road Construction and Maintanance | 6 |
| Fundamental Modules | | | |
| 9. | CTT 05101 | Basic Computing mathematics | 6 |
| 10. | CTT 05102 | Strength of Materials | 6 |
| 11. | CTT 05103 | Principles of Entepreneurship | 6 |
| Total Credits | | | 75 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | CTT 05214 | Railway Construction and Maintenance | 9 |
| 2. | CTT05215 | Architectural Drawing | 9 |
| 3. | CTT 05216 | Water Supply and Sanitation | 6 |
| 4. | CTT 05217 | Road and Railway Drainage Engineering | 6 |
| 5. | CTT 05218 | Basic Airport, Port and Harbour Construction and Maintenance | 6 |
| 6. | CTT 05219 | Road Allignment Design | 9 |
| Fundamental Modules | | | |
| 7. | CTT 05212 | Trigonometry and Statistics | 6 |
| 8. | CTT 05213 | Elements of Research Methodolody | 6 |
| Total Credits | | | 57 |

(c) **Award**

Upon successfully completion of the programme, a candidate who wishes to exit is awarded the Technician Certificate in Civil and Transportation Engineering of the National Institute of Transport.

8.3.11.3. Diploma (NTA Level 6) in Civil and Transportation Engineering

(a) **Purpose of the Qualification**

This qualification is intended for persons who will design simple structures, construct and maintain civil and transportation engineering structures and assume supervisory responsibilities.

(b) **Summary of Modules**

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | CTT 06104 | Pavement Materials and Design | 6 |
| 2. | CTT 06105 | Structural Steel and Timber Design | 6 |
| 3. | CTT 06106 | Basics of Pipeline Engineering | 6 |
| 4. | CTT 06107 | Project Proposal | 6 |
| 5. | CTT 06108 | Industrial Practical Training | 12 |
| 6. | CTT 06109 | Bridge and Tunnel Construction and Maintenance | 9 |
| Electrive Modules | | | |
| 7. | CTT 06110 | Railway Route Alignment Design | 6 |
| 8. | CTT 06111 | Basic Airport Design | 6 |
| Fundamental Modules | | | |
| 9. | CTT 06101 | Basic Programming with C++ | 6 |
| 10. | CTT 06102 | Computing Mathematics and Statistics | 6 |
| 11. | CTT 06103 | Professional Ethics | 6 |
| Total Credits | | | 75 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|------------------------------------|-----------|
| Core Modules | | | |
| 1. | CTT 06214 | Basics of Traffic Engineering | 6 |
| 2. | CTT 06215 | Construction Management | 9 |
| 3. | CTT 06216 | Reinforced Concrete Design | 9 |
| 4. | CTT 06217 | Project Implementation | 12 |
| Electrive Modules | | | |
| 5. | CTT 06218 | Basic Design of Railway Track | 6 |
| 6. | CTT 06219 | Basic Port and Harbour Engineering | 6 |
| Fundamental Modules | | | |
| 7. | CTT 06212 | Development Studies | 6 |
| 8. | CTT 06213 | Advanced Computing Mathematics | 6 |
| Total Credits | | | 63 |

(c) **Award**

On successful completion of the programme, a candidate is awarded the Diploma in Civil and Transportation Engineering of the National Institute of Transport.

8.3.12. Diploma in Mechanical Engineering and Railway Vehicle Technology

8.3.12.1. Basic Technician Certificate (NTA Level 4) in Mechanical Engineering and Railway Vehicle Technology

(a) **Purpose of Qualifications**

This qualification is intended to persons who will perform simple and routine mechanical Engineering activities in engineering services and production organizations. Such activities includes; simple and routine repair and maintenance services of machine components, and production of simple machinery components and in the maintenance of rolling stock particularly railway vehicles.

(b) **Summary of Modules**

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-----------------------------|-----------|
| Core Modules | | | |
| 1. | AET 04114 | Engineering Science | 6 |
| 2. | AET 04116 | Basics of Railway Systems | 6 |
| 3. | AET 04106 | Geometrical Drawing | 9 |
| 4. | MET 04105 | Engineering Materials | 6 |
| 5. | MET 04106 | Basics of Machine Elements | 6 |
| 6. | MET 04109 | Workshop Technology | 12 |
| Fundamental Modules | | | |
| 7. | AET 04111 | Basic Mathematics | 6 |
| 8. | AET 04112 | Basic Communication Skills | 6 |
| 9. | AET 04113 | Basic Computer Applications | 6 |
| Total Credits | | | 63 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | AET 04205 | Engineering Drawing | 12 |
| 2. | AET 04211 | Elements of Entrepreneurship | 6 |
| 3. | MET 04204 | Basic Electrical and Electronics Systems | 9 |
| 4. | MET 04205 | Basic Production Engineering | 12 |
| 5. | MET 04207 | Basic of Railway Rolling Stock | 6 |
| 6. | MET 04208 | Welding and Fabrication Practices | 6 |
| 7. | MET 04209 | Rolling Stock Electrical and Electronic Systems | 6 |
| 8. | AET 04210 | Basic Engineering Mathematics | 6 |
| Total Credits | | | 60 |

(c) **Award**

Upon successfully completion of the programme, a candidate who wishes to exit is awarded the Basic Technician Certificate in Mechanical Engineering and Railway Vehicle Technology of the National Institute of Transport.

8.3.12.2. Technician Certificate (NTA Level 5) in Mechanical Engineering and Railway Vehicle Technology programme

(a) **Purpose of Qualification**

This qualification is intended for persons who will have the ability to work under minimum supervision to perform some non-routine engineering and technical works in a railway sector (railway vehicle technology), industries, companies and organizations. They can also self-employ and perform same duties under own jurisdiction.

(b) **Summary of Modules**

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | AET 05111 | Locomotive Systems and Components | 6 |
| 2. | AET 05113 | Principles of Entrepreneurship | 6 |
| 3. | MET 05104 | Machine Elements | 6 |
| 4. | MET 05105 | Engineering Measurements & Instrumentation | 6 |
| 5. | MET 05106 | Materials Technology | 6 |
| 6. | MET 05108 | Thermodynamics | 6 |
| 7. | MET 05109 | Industrial Practical Training | 12 |
| 8. | MET 05110 | Principles of D.C and A.C Machines | 12 |
| 9. | MET 05111 | Railway Carriage engineering | 6 |
| Fundamental Modules | | | |
| 10. | AET 05112 | Basic Computing Mathematics | 6 |
| Total Credits | | | 72 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | AET 05212 | Fluids Mechanics | 6 |
| 2. | MET 05207 | Maintenance Management | 6 |
| 3. | MET 05208 | Computer Aided Drafting | 9 |
| 4. | MET 05210 | Railway Carriage & Wagon Systems and Components | 9 |
| 5. | MET 05211 | Strength of Materials | 6 |
| 6. | MET 05212 | Air Conditioning | 6 |
| Fundamental Modules | | | |
| 7. | AET 05210 | Trigonometry and Statistics | 6 |
| 8. | AET 05211 | Principles of Procurement and Supply | 6 |
| Total Credits | | | 54 |

(c) Award

Upon successfully completion of the programme, a candidate who wishes to exit is awarded the Technician Certificate in Mechanical Engineering and Railway Vehicle Technology of the National Institute of Transport.

8.3.12.3. Diploma (NTA Level 6) in Mechanical Engineering and Railway Vehicle Technology

(a) Purpose of the Qualification

This qualification is intended for persons who will work independently in maintenance and repair, production and service rolling stock. This includes installing, layout and use machines for manufacturing of engineering components, estimate resources required, and assist in research activities under some supervision.

(b) Summary of Module

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--------------------------------------|-----------|
| Core Modules | | | |
| 1. | MET 06103 | Production Engineering | 6 |
| 2. | MET 06104 | Basics of Refrigeration Systems | 6 |
| 3. | MET 06105 | Farm Power and Machinery | 9 |
| 4. | MET 06106 | Fluids Power Systems | 6 |
| 5. | MET 06107 | Basics of Automation | 3 |
| 6. | MET 06109 | Project Proposal | 6 |
| 7. | MET 06110 | Industrial Practical Training | 12 |
| 8. | MET 06112 | Locomotive Maintenance and Repair | 6 |
| Fundamental Modules | | | |
| 9. | AET 06113 | Computing Mathematics and Statistics | 6 |
| 10. | AET 06114 | Basic Programming with C++ | 6 |
| Total Credits | | | 66 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|---------------------|-------------|---|---------|
| Core Modules | | | |
| 1. | MET 06204 | Industrial Control Systems | 6 |
| 2. | MET 06205 | Foundry Technology | 6 |
| 3. | MET 06207 | Environment Engineering Management | 6 |
| 4. | MET 06208 | Basic Operation Management | 6 |
| 5. | MET 06209 | Project Implementation | 12 |
| 6. | MET 06210 | Railway Safety and Accident Investigation | 6 |
| 7. | MET 06211 | Railway Carriage & Wagon Maintenance and Repair | 6 |
| 8. | MET 06212 | Urban Railway Vehicle Technology | 6 |

| Fundamental Modules | | | |
|----------------------------|-----------|--------------------------------|-----------|
| 9. | AET 06213 | Development Studies | 6 |
| 10. | AET 06214 | Advanced Computing Mathematics | 6 |
| Total Credits | | | 66 |

(c) Award

On successful completion of the programme, a candidate is awarded the Diploma in Mechanical Engineering and Railway Vehicle Technology of the National Institute of Transport.

8.3.13. Ordinary Diploma in Automobile Engineering and Locomotive Technology

8.3.13.1. Basic Technician Certificate (NTA Level 4) in Automobile Engineering and Locomotive Technology

(a) Purpose of the Qualification

This qualification is intended for persons who will perform simple and routine automobile Engineering and Locomotive Technology activities in engineering services and production organizations. Such activities include simple and routine maintenance and repair services of automobile components..

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | AET 04104 | Basic Machine Elements | 6 |
| 2. | AET 04106 | Geometrical Drawing | 9 |
| 3. | AET 04108 | Basic Electrical & Electronics Systems | 6 |
| 4. | AET 04110 | Basics of Automobile Engineering | 6 |
| 5. | AET 04114 | Engineering Science | 6 |
| 6. | AET 04115 | Workshop Technology | 12 |
| 7. | AET 04116 | Basics of Railway Systems | 6 |
| Fundamental Modules | | | |
| 8. | AET 04111 | Basic Mathematics | 6 |
| 9. | AET 04112 | Basic Communication Skills | 6 |
| 10. | AET 04113 | Basic Computer Applications | 6 |
| Total Credits | | | 63 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|---------------------|-------------|---------------------------------|---------|
| Core Modules | | | |
| 1. | AET 04203 | Basic Engine Maintenance | 9 |
| 2. | AET 04205 | Engineering Drawing | 9 |
| 3. | MET 04207 | Basics of Railway Rolling Stock | 9 |

| | | | |
|----------------------------|-----------|---|-----------|
| 4. | MET 04208 | Welding and Fabrication Practices | 6 |
| 5. | AET 04209 | Basic Automobile and Rolling Stock Electrical and Electronics Systems | 9 |
| Fundamental Modules | | | |
| 6. | AET 04210 | Basic Engineering Mathematics | 6 |
| 7. | AET 04211 | Elements of Entrepreneurship | 6 |
| Total Credits | | | 60 |

(c) Award

Upon successfully completion of the programme, candidates who wish to exit are awarded the Basic Technician Certificate in Automobile Engineering and Locomotive Technology of the National Institute of Transport.

8.3.13.2. Technician Certificate (NTA Level 5) in Automobile Engineering and Locomotive Technology Programme.

(a) Purpose of Qualification

This qualification is intended to give person's ability to perform routine and some of non-routine engineering works, in industries, companies and organizations. The works including troubleshooting maintenance and repair of all automobile, Railways and related powered machines.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | AET 05103 | Automotive Electrical and Electronic System | 9 |
| 2. | AET 05104 | Industrial Practical Training | 12 |
| 3. | AET 05105 | Automotive Suspension and Steering Systems | 6 |
| 4. | AET 05106 | Automotive Brake Maintenance and Repair | 6 |
| 5. | AET 05107 | Materials Technology | 6 |
| 6. | AET 05108 | Machine Elements | 6 |
| 7. | AET 05110 | Thermodynamics | 4 |
| 8. | AET 05111 | Locomotive Systems and Components | 6 |
| Fundamental Modules | | | |
| 9. | AET 05112 | Basic Computing Mathematics | 6 |
| 10. | AET 05113 | Principles of Entrepreneurship | 6 |
| Total Credits | | | 75 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | AET 05203 | Computer Aided Drafting | 9 |
| 2. | AET05204 | Automotive Transmission and Drive Train | 6 |
| 3. | AET 05205 | Automotive Air Fuel Systems | 6 |
| 4. | AET 05206 | Fundamental of Automotive Maintenance and Repair | 6 |
| 5. | AET 05209 | Automobile Heating and Air conditioning | 6 |
| 6. | MET 05210 | Railway Carriage and Wagon Systems and Components | 9 |
| 7. | AET 05210 | Strength of Materials | 6 |
| Fundamental Modules | | | |
| 8. | AET 05211 | Trigonometry and Statistics | 6 |
| 9. | AET 05212 | Principles of Procurement and Supply | 6 |
| Total Credits | | | 60 |

(c) Award

Upon successful completion of the programme, candidates who wish to exit are awarded the Technician Certificate in Automobile Engineering and Locomotive Technology of the National Institute of Transport.

8.3.13.3. Diploma (NTA Level 6) in Automobile Engineering and Locomotive Technology

(a) Purpose of the Qualification

This qualification is intended to persons, who will perform a broad range of activities most of which non-routine including supervisory responsibilities. The activities carried are in the fields of maintenance, production, service, and repair. This includes install layout and use machines for manufacturing of engineering components, estimate resources required, and apply entrepreneurship and ICT knowledge to solve engineering problems.

(b) Summary of Module

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|---------------------|-------------|--|---------|
| Core Modules | | | |
| 1. | AET 06104 | Electronic Ignition and Fuel Injection | 6 |
| 2. | AET 06105 | Internal Combustion Engine | 6 |
| 3. | AET 06107 | Fluid Power System | 6 |
| 4. | AET 06109 | Industrial Practical Training | 12 |
| 5. | AET 06110 | Road Safety and Accident Investigation | 6 |
| 6. | AET 06112 | Locomotive Maintenance and Repair | 6 |
| 7. | AET 06115 | Project Proposal | 6 |

| Fundamental Modules | | | |
|----------------------------|-----------|--------------------------------------|-----------|
| 8. | AET 06113 | Computing Mathematics and Statistics | 6 |
| 9. | AET 06114 | Basic Programming with C++ | 6 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | AET 06204 | Environmental Engineering Management | 6 |
| 2. | AET 06205 | Workshop Management | 6 |
| 3. | AET 06206 | Automobile Body works | 9 |
| 4. | AET 06207 | Railway Safety and Accident Investigation | 6 |
| 5. | AET 06208 | Project Implementation | 12 |
| 6. | AET 06211 | Heavy-Duty Vehicles and Equipment | 6 |
| 7. | MET 06211 | Railway Carriage and Wagon Maintenance and Repair | 6 |
| 8. | MET 06212 | Urban Railway Vehicle Technology | 6 |
| Fundamental Modules | | | |
| 9. | AET 06213 | Development Studies | 6 |
| 10. | AET 06214 | Advanced Computing Mathematics | 6 |
| Total Credits | | | 69 |

(c) Award

On successful completion of the programme, candidates are awarded the Diploma in Automobile Engineering and Locomotive Technology of the National Institute of Transport.

8.3.14. Ordinary Diploma in Electrical and Railway Electrification Engineering

8.3.14.1. Basic Technician Certificate (NTA Level 4) in Electrical and Railway Electrification Engineering

(a) Purpose of Qualifications

This qualification is intended for persons who will work under supervision to install, construct, maintain, diagnose, repair and modify simple electrical and railway electrification systems. They can also serve in the production, construction, manufacturing and processing and transport industries.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|---------------------|-------------|----------------------------|---------|
| Core Modules | | | |
| 1. | ERT 04105 | Basic of Railway Systems | 6 |
| 2. | ERT 04106 | Basic Analogue Electronics | 9 |
| 3. | ERT 04107 | Workshop Technology | 9 |

| | | | |
|----------------------------|-----------|-----------------------------------|-----------|
| 4. | ERT 04108 | Engineering Drawings | 9 |
| 5. | ERT 04109 | Electrical Measurements | 6 |
| Fundamental Modules | | | |
| 6. | ERT 04101 | Basic Mathematics | 6 |
| 7. | ERT 04102 | Basic Communication Skills | 6 |
| 8. | ERT 04103 | Basic Computer Applications | 6 |
| 9. | ERT 04104 | Basic Electrical Circuit Analysis | 6 |
| Total Credits | | | 63 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | ERT 04213 | Basic of Railway Electrification System | 6 |
| 2. | ERT 04214 | Digital Combinational Circuits | 6 |
| 3. | ERT 04215 | Circuit Board Printing and Draughting Techniques | 9 |
| 4. | ERT 04216 | Electrical Measurements and Instrumentation | 6 |
| 5. | ERT 04217 | Electrical Drawing | 6 |
| 6. | ERT 04218 | Electrical Workshop Practice | 9 |
| Fundamental Modules | | | |
| 7. | ERT 04210 | Basic Engineering Mathematics | 6 |
| 8. | ERT 04211 | Arc and Gas welding | 6 |
| 9. | ERT 04212 | Element of Entrepreneurship | 6 |
| Total Credits | | | 60 |

(c) Award

Upon successfully completion of the programme, candidates who wish to exit are awarded the Basic Technician Certificate in Electrical and Railway Electrification Engineering of the National Institute of Transport.

8.3.14.2. Technician Certificate (NTA Level 5) in Electrical and Railway Electrification Engineering programme

(a) Purpose of the Qualification

This qualification is intended for person who will have the ability to work under minimum supervision to perform non-routine engineering and technical works in a Railway Sector (electrical and electrification systems), industries, companies and organization. They can also self-employ and perform similar duty under own jurisdiction.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|---------------------|-------------|---|---------|
| Core Modules | | | |
| 1. | ERT 05103 | DC Machines | 6 |
| 2. | ERT 05104 | Analogue Electronic Devices and Circuit | 6 |
| 3. | ERT 05105 | Electromagnetism | 6 |

| | | | |
|----------------------------|-----------|--------------------------------|-----------|
| 4. | ERT 05106 | Transformer | 6 |
| 5. | ERT 05107 | Industrial Practical Training | 12 |
| Fundamental Modules | | | |
| 6. | ERT 05101 | Basic Computing Mathematics | 6 |
| 7. | ERT 05102 | Principles of Entrepreneurship | 6 |
| Total Credits | | | 54 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | ERT 05209 | Fundamentals and Computer Networking | 9 |
| 2. | ERT 05210 | Railway electrical power generation and Substation | 9 |
| 3. | ERT 05211 | Power Electronics | 6 |
| 4. | ERT 05212 | Digital Sequential Circuit | 9 |
| 5. | ERT 05213 | AC Machines | 9 |
| 6. | ERT 05214 | Electrical Power Utilization | 9 |
| 7. | ERT 05215 | Power Plant Engineering | 9 |
| Fundamental Modules | | | |
| 8. | ERT 05208 | Trigonometry and Statistics | 6 |
| Total Credits | | | 66 |

(c) Award

Upon successfully completion of the programme, a candidate who wishes to exit is awarded the Technician Certificate in Electrical and Railway Electrification Engineering of the National Institute of Transport.

8.3.14.3. Diploma (NTA Level 6) in Electrical and Railway Electrification Engineering

(a) Purpose of the Qualification

This qualification is intended for persons, who will work independently to design and supervise electrical and railway electrification systems installations, constructions, modification, innovations, maintenance, repair and assist in research activities under some supervision

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|---------------------|-------------|---|---------|
| Core Modules | | | |
| 1. | ERT 06104 | Analogue Electronics Design | 6 |
| 2. | ERT 06105 | Applied Microcontrollers | 6 |
| 3. | ERT 06106 | Traction Motors | 6 |
| 4. | ERT 06107 | Railway Catenaries and Transmission Lines | 3 |

| | | | |
|----------------------------|-----------|--|-----------|
| 5. | ERT 06108 | Motor and Transformer Rewinding | 9 |
| 6. | ERT 06109 | Project Proposal | 6 |
| 7. | ERT 06110 | Industrial Practical Training | 12 |
| Fundamental Modules | | | |
| 8. | ERT 06101 | Basic Programming with C++ | 6 |
| 9. | ERT 06102 | Computing Mathematics and Statistics | 6 |
| 10. | ERT 06103 | Professional Ethics and Supervisory Skills | 6 |
| Total Credits | | | 66 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | ERT 06213 | Electric Drive | 6 |
| 2. | ERT 06214 | Refrigeration and Air Conditioning | 6 |
| 3. | ERT 06215 | Electrical Maintenance and Management | 9 |
| 4. | ERT 06216 | Electrical Power Transmission and Distribution | 3 |
| 5. | ERT 06217 | Project Implementation | 12 |
| 6. | ERT 06218 | Electrical Protection and Switch Gear Maintenance | 9 |
| 7. | ERT 06219 | Railway Safety and Accident Investigation | 6 |
| 8. | ERT 06220 | Maglev Technology | 3 |
| Fundamental Modules | | | |
| 9. | ERT 06211 | Development Studies | 6 |
| 10. | ERT 06212 | Advanced Computing Mathematics | 6 |
| Total Credits | | | 66 |

(c) Award

On successful completion of the programme, a candidate is awarded the Diploma in Electrical and Railway Electrification Engineering of the National Institute of Transport.

8.3.15. Ordinary Diploma in Telecommunication and Railway Signalling Engineering

8.3.15.1. Basic Technician Certificate (NTA Level 4) in Telecommunication and Railway Signalling Engineering

(a) Purpose of the Qualification

This qualification is intended for persons who will work under supervision to install, construct, maintain, diagnose, repair and modify simple electronic, telecommunication engineering systems and railway signaling plants, components and pertaining systems. They can also work in fast growing information and communications and transport industries.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-----------------------------------|-----------|
| Core Modules | | | |
| 1. | TRT 04104 | Basic Electrical Circuit Analysis | 6 |
| 2. | TRT 04105 | Basic of Railway Systems | 6 |
| 3. | TRT 04106 | Basic Analogue Electronics | 9 |
| 4. | TRT 04107 | Workshop Technology | 9 |
| 5. | TRT 04108 | Engineering Drawings | 9 |
| 6. | TRT 04109 | Electrical Measurements | 9 |
| Fundamental Modules | | | |
| 7. | TRT 04101 | Basic Mathematics | 6 |
| 8. | TRT 04102 | Basic Communication Skills | 6 |
| 9. | TRT 04103 | Basic Computer Applications | 6 |
| Total Credits | | | 66 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--------------------------------|-----------|
| Core Modules | | | |
| 1. | TRT 04213 | Basic of Railway Signalling | 6 |
| 2. | TRT 04214 | Digital Combinational Circuits | 6 |
| 3. | TRT 04215 | Telecommunication Principles | 9 |
| 4. | TRT 04216 | Electronic Drawing | 9 |
| 5. | TRT 04217 | Electronic Workshop Practice | 9 |
| Fundamental Modules | | | |
| 6. | TRT 04210 | Basic Engineering Mathematics | 6 |
| 7. | TRT 04211 | Arc and Gas welding | 6 |
| 8. | TRT 04212 | Element of Entrepreneurship | 6 |
| Total Credits | | | 57 |

(c) Award

Upon successfully completion of the programme, a candidate who wishes to exit is awarded the Basic Technician Certificate in Telecommunication and Railway Signalling Engineering of the National Institute of Transport.

8.3.15.2. Technician Certificate (NTA Level 5) in Telecommunication and Railway Signalling Engineering

(a) Purpose of the Qualification

This qualification is intended for person who will have the ability to perform work under minimum supervision to perform non-routine engineering and technical works in a Railway Sector, industries, companies and organizations in electronics, telecommunications and signaling systems. The graduate may self-employ to do the similar duties.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | TRT 05103 | Analogue Electronic Devices and Circuit | 6 |
| 2. | TRT 05104 | Television and Video Technology | 9 |
| 3. | TRT 05105 | Antennas and Transmission Lines | 9 |
| 4. | TRT 05107 | Industrial Practical Training | 12 |
| 5. | TRT 05108 | Mechanical Based Signalling Technology | 9 |
| Fundamental Modules | | | |
| 6. | TRT 05101 | Basic Computing Mathematics | 6 |
| 7. | TRT 05102 | Principles of Entrepreneurship | 6 |
| 8. | TRT 05106 | Electromagnetism | 6 |
| Total Credits | | | 63 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | TRT 05210 | Data Communication and Networking | 12 |
| 2. | TRT 05211 | Digital Sequential Circuit | 9 |
| 3. | TRT 05212 | Power Electronics | 6 |
| 4. | TRT 05213 | Radio Transmission Systems | 9 |
| 5. | TRT 05214 | Electrical Based Signalling Technology | 9 |
| 6. | TRT 05215 | Electronic Products Fabrication | 9 |
| Fundamental Modules | | | |
| 7. | TRT 05209 | Trigonometry and Statistics | 6 |
| Total Credits | | | 60 |

(c) Award

Upon successfully completion of the programme, a candidate who wishes to exit is awarded the Technician Certificate in Telecommunication and Railway Signalling Engineering of the National Institute of Transport.

8.3.15.3. Diploma (NTA Level 6) in Telecommunication and Railway Signalling Engineering

(a) Purpose of the Qualification

This qualification is intended for persons, who have ability to perform work under minimum supervision to perform non-routine engineering and technique works in railway sector, in industries, companies and organisations in electronics, telecommunications and signaling systems. They can self-employ to do the same duties.

(b) Summary of Modules**SEMESTER I**

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | TRT 06104 | Analogue Electronics Design | 6 |
| 2. | TRT 06105 | Applied Microcontrollers | 6 |
| 3. | TRT 06106 | Principles of CCTV Technology | 3 |
| 4. | TRT 06107 | Radar and Navigation Systems | 6 |
| 5. | TRT 06108 | Railway Control Systems | 6 |
| 6. | TRT 06109 | Maintenance and Repair of Railway Telecommunication System | 9 |
| 7. | TRT 06110 | Project Proposal | 6 |
| 8. | TRT 06111 | Industrial Practical Training | 12 |
| Fundamental Modules | | | |
| 9. | TRT 06101 | Basic Programming with C++ | 6 |
| 10. | TRT 06102 | Computing Mathematics and Statistics | 6 |
| 11. | TRT 06103 | Professional Ethics and Supervisory Skills | 6 |
| Total Credits | | | 72 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | TRT 06214 | Telephony and Switching | 3 |
| 2. | TRT 06215 | Microwave and Satellite Communication | 6 |
| 3. | TRT 06216 | Communication System Engineering | 6 |
| 4. | TRT 06217 | Project Implementation | 12 |
| 5. | TRT 06218 | Maintenance and Repair of Railway Signalling Systems | 9 |
| 6. | TRT 06219 | Railway Safety and Accident Investigation | 6 |
| 7. | TRT 06220 | Maintenance of Railway Radio Base Station | 9 |
| Fundamental Modules | | | |
| 8. | TRT 06212 | Development Studies | 6 |
| 9. | TRT 06213 | Advanced Computing Mathematics | 6 |
| Total Credits | | | 63 |

(c) Award

On successful completion of the programme, a candidate is awarded the Diploma in Telecommunication and Railway Signalling Engineering of the National Institute of Transport.

8.3.16.Short Courses

(a) **Engine Overhaul (Petrol and Diesel)**

Objective: To impart knowledge and skills on engine overhaul for both petrol and diesel engines.

Duration: 40 Hours

(b) **EFI (Electronic fuel Injection)**

Objective: To impart knowledge and skills necessary to enable participants to identify fuel faults, electronic components (Sensor, ECU, Actuators) faults, diagnosis and rectify them.

Duration: 40 Hours

(c) **Fuel Control and Safety Tools Usage**

Objectives

- To impart knowledge and skills on fuel operational characteristics, control fuel usage for effective operation
- To Impart knowledge and skills on how to use safety all important tools to be carried during vehicle trips

Duration: 3days or 24 hours

(d) **Vehicle Inspection**

Objective: To equip participant with skills, procedure, awareness and positive attitude on proper techniques of vehicle inspection within the provision of vehicle inspection regulation.

Duration: 300 Hours

(e) **Vehicle Inspection and Appraisal**

- Possession of Certificate of Secondary Education Examinations or above; or any equivalent qualification and be able to read and write in both English and Kiswahili
- Possession of Bachelor's Degree, Diploma or Trade Test grade one in Automobile engineering
- Possession of valid Driving license

Duration: 300 Hours.

8.3.17.Academic Staff

Head of Department

Dr. John N.P.D. Mahona PhD in Energy. Eng – (UDSM), MEM – (UDSM), BSc. Mech. Eng. – (UDSM)

Examination Coordinator

Mr. Walter S. Maanga B. Eng Electronics and Communication (SJUT)

Associate Professor

Eng. Prof.Zacharia M. D. Mganilwa PhD in Agricultural Science - (Kagoshima University Japan), MSc. in Agricultural Machinery – (Miyazaki University Japan), Bsc in Mechanical Engineering - (UDSM), FTC in Mechanical Engineering - (DIT).

Senior Lecturers

****Eng Dr. Ethel D. Kasembe** PhD in Energy Eng. – (UDSM), MEM - (UDSM)
BSc. in Mech. Eng - (UDSM)

Lecturers

***Eng. Aziz A. Mdimi** MSc. Mech. Eng. - (RUSSIA), BSc. Mech. Eng. -(RUSSIA)
Eng. Dr. Prosper L. Mgyaya PhD Water Resources Engineering – (Kyoto University - Japan), MSc.in Water Resources Engineering – (UDSM), BSc. in Civil Engineering – (UDSM).
Dr. Omari Mashi Khalfan PhD in Mech. Eng. – (Selcuk University Turkey), MSc. in Mech. Eng – (Selcuk University Turkey), BSc. in Mech. Eng. – (Selcuk University Turkey)
Dr. John N.P.D. Mahona PhD in Energy Eng – (UDSM), MEM – (UDSM), BSc. in Mech Engineerig – (UDSM)

Assistant Lecturers

Ms. Felista Kalatula MEM – (UDSM), BSc. Elec. Eng. – (UDSM).
Eng. Hamad M. Abdullah MSc. in Civil Engineering – (Ukraine – USSR), BSc. in Civil Engineering – (Ukraine – USSR),
***Ms. Elizabeth Ngatunga** MSc. Information Technology and Management – (ADU – India)
Mr Christian S Nabora BSc. Telecommunications Engineering – (UDSM). MSc. MSc. Sustainable Renewable Energy Engineering (NM-AIST), B.Eng. Automobile (NIT)
Ms. Prisila A. Ishabakaki MSc. in Information and Communication Science and Engineering – (NM-AIST), BSc. In Telecommunication Eng. – (UDSM)
***Mr. Michael J. Kyando** MSc. Engineering in Maintenance Management – (DIT), BAE – (NIT), Dip in Automobile Eng. – (NIT), Cert in Motor vehicle Mechanics (Der TechnischenSchule des Heeres und Fachschule des Heeres fur Technik – German)
***Mr. Manala T. Mbumba** MSc. Energy Engineering – (UDSM), B. Eng. Automobile Engineering – (NIT)
Mr. Chacha L. Mwita MSc. Project Management for Environmental and Energy Engineering (IMT Atlantique – France), BSc. Mechanical Engineering – (UDSM)
Mr. Emmanuel M. Buberwa MSc. in Pipelines Technology – University of Science and Technology Oran, Algeria, BSc. Mining and Metallurgical Engineering – (University of Science and Technology Oran, Algeria).
Mr. Khamis F. Hamadi MEng. in Naval Architecture and shipbuilding (USTO-MB, Algeria).
Mr. Khalifa Hamisi MSc. in Oil and Natural Gas Engineering (CUG- China), Mechanical Engineering – (MUST)
Mr. Paul Wilson MSc Power System and High Voltage (UDSM), BSc. in Elect. Eng. (UDSM)

| | |
|-------------------------|--|
| Mr. Mhoja Mahona | MSc. Engineering in Maintenance Management (DIT), BAE (NIT), DAE - (NIT) |
| *Mr. Johnson J. Kasali | MSc. Oil and Natural Gas Engineering (China University of Geosciences – Wuhan), BSc. Electro – Mechanical (UDSM) |
| Lydia T. Kamugisha | MSc. Environmental Technology and Management – (ARU), BSc. Environmental Laboratory Science and Technology (ARU), Dipl. Education (Morogoro T.T.C) |
| Ms. Khadija O. Mohammed | MSc. in Telecommunications Engineering- (UDOM), BSc. Telecommunications Engineering (UDOM). |
| Mr. Joseph Luanda | Master of Sciences and Technology in Mining and Metallurgy (Oran), Bachelor of Sciences and Technology in Marine Engineering (Oran) |
| Mr. Nyimila Anosisye | MSc in Railway Engineering (Rolling Stock) (Addis Ababa), B. Mech. Eng. (DIT), FTC in Mech. Eng. (Mbeya Tech.) |
| Mr. Jairo Kagoma | Master of Engineering in Electrical Engineering (Beijin), B. Eng. Electronics and Communications – (SJUT) |
| Ms. Aisha B. Kabange | MSc in Railway Engineering (Civil Infrastructure) (Addis Ababa) B. Eng. Civil – (SJUT) |
| Mr. Lameck Lugeiyamu | Master Degree in Civil Engineering (Central Southern China) B.Eng. Civil – (SJUT) |
| Mr. Dauson Nyonyi | Master of Technology in Marine Engineering and Mechanical Handling (Andra) Adv. Diploma in Marine Engineering Technology (DMI), PGD in Transport Engineering (NIT) |
| Ms. Sakina M. Juma | MSc in Railway Engineering (Civil Infrastructure) (Addis Ababa), B. Eng. Civil – (DIT) |

Tutorial Assistants

| | |
|-------------------------|--|
| Mr. Walter S. Maanga | B. Eng Electronics and Communication (SJUT) |
| *Ms. Grace Kibweja | B.Eng. in Electronical and Electronics – (SJUT) |
| *Ms. Latifa Mzara | Adv. Diploma in Marine Engineering Technology (DMI) |
| Mr. Jeferson B. Maisson | B. Eng. Mechanical – (DIT), Diploma in Automotive Engineering – (Arusha Tech.) |
| *Mr. Juma K. Ngoda | B.Eng. Civil (SJUT) |
| *Mr. Emmanuel P. Mgisha | B.Eng. Electrical – (MUST), Diploma in Electronics and Telecommunication Engineering – (DIT) |

Senior Tutors

| | |
|-----------------------|--|
| Mr. Patrick O. Makule | BAE (NIT), Dip Auto.Eng (NIT), FTC in Mech.Eng (Mbeya Tech), Cert in Electronic Control Fuel Injection and Automatic Gearbox (Nakawa-Uganda) |
| **Mr. Jerive Malaki | MSc Engineering and Maintenance Management (DIT), Postgraduate Diploma in Road Safety Management (NIT), Advanced Diploma in Auto-Eng (NIT). |

Tutors

| | |
|--------------------------|--|
| Mr. Pascal P. Duwe | BAE - (NIT), Certificate in Engineering – (Technical College Arusha). |
| Mr. William Venge | PGD in RSM (NIT), DAE – (NIT) |
| Mr. Geoffrey Leonard | B.Eng. Mechanical (NIT) |
| Mr. Enock Mjwahuzi | B.Eng. Electronics and Telecommunications (SJUT) |
| Ms. Geriwalda S. Mushi | B. Eng. Automobile (NIT) |
| Mr. Birungi J. Kironde | MSc. Oil and Natural Gas Engineering (China University of Geosciences – Wuhan), BSc. Electro - Mechanical (UDSM) |
| Mr. Mazuri Lutema | BME – ((NIT) |
| Mr. Kelvin E. Ojango | B. Eng. Mechanical – (DIT), Diploma in Eng. Mechanical – (DIT) |
| Mr. Faraja Nyangasa | BAE – (NIT) |
| Mr. Abdul-Sadiq Ahmed | BME – (NIT) |
| Mr. Merikiory B. Njawala | BME – (NIT), Diploma Computer in Engineering (DIT) |
| Alatupoka E. Mgeni | Bsc in Civil Engineering (UDSM) |
| Constantine G. Ngaa | Bsc in Civil Engineering (UDSM) |
| Abdul S. Umande | Bachelor Degree in Marine Engineering Technology (DMI) |

Laboratory Technicians

| | |
|---------------------------|---|
| Mr. Emmanuel M. Mng'ong'o | DAE - (NIT) |
| Mr. Ally Kilimila | DAE – (NIT) |
| Mr. Hemed Mwijae Jafari | Dip in Electronics and Telecommunication Eng. – (DIT) |
| Mr. Hamad C. Mngwai | DAE (NIT) |
| Mr. Joseph V. Mhindi | Dip in Mechanical Eng (DIT) |

* On study leave

**On Secondment Term

8.4. COMPUTING AND COMMUNICATION TECHNOLOGY DEPARTMENT

The department is responsible for planning, organizing and conducting Information and Communications Technology related modules which are taught to different programmes in other departments. Currently, the department conducts two Bachelor's degree programmes (NTA Level 7 - 8): - BSc in Computer Science and B. in Information Technology, also the department conducts One Ordinary Diploma (NTA Level 4 – 6), Diploma in Computing and Information Communication Technology.

8.4.1. Bachelor's Degree (NTA Level 7-8) Programme in Information Technology

This Degree programme comprises two levels; the Higher Diploma (NTA Level 7) and Bachelor's Degree (NTA Level 8). Higher Diploma has four semesters (equivalent to two academic years) and Bachelor's degree has two semesters

(equivalent to one academic year). The NTA Level 7 is an entry qualification to NTA Level 8.

8.4.1.1. Higher Diploma (NTA Level 7) in Information Technology

(a) Purpose of Qualification appropriate

This qualification is aimed to produce graduates who will be able to analyze, apply and innovate Computing and Communication Technology solutions for better performance in the specific business entities.

(b) Modules Summary

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---------------------------------------|-----------|
| Core Modules | | | |
| 1. | ITU 07104 | Business Information Systems | 12 |
| 2. | ITU 07105 | Computer Design and Architecture | 12 |
| 3. | ITU 07103 | Programming Principles | 15 |
| Fundamental Modules | | | |
| 4. | GSU 07101 | Business Communication Skills | 9 |
| 5. | MTU 07101 | Fundamentals of Mathematical Analysis | 12 |
| 6. | MTU 07102 | Introduction to Linear Algebra | 9 |
| Total Credits | | | 69 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---------------------------------|-----------|
| Core Modules | | | |
| 1 | ITU 07201 | Event-Driven Programming | 9 |
| 2 | ITU 07202 | Operating System Concepts | 9 |
| 3 | ITU 07203 | Database Concepts | 9 |
| 4 | ITU 07205 | Computer Networking | 12 |
| 5 | ITU 07206 | System Analysis and Design | 9 |
| 6 | ITU 07207 | Fundamentals of Web Programming | 9 |
| 7 | ITU 07208 | Field Practical Training I | 12 |
| Fundamental Modules | | | |
| 8 | MTU 07204 | Functions of a Single Variable | 12 |
| Total Credits | | | 81 |

SEMESTER III

| S/No | Module Code | Module Name | Credits |
|---------------------|-------------|---------------------------------|---------|
| Core Modules | | | |
| 1. | ITU 07307 | Database Systems | 9 |
| 2. | ITU 07308 | Electronic Commerce | 6 |
| 3. | ITU 07309 | Operating System Administration | 9 |
| 4. | ITU 073110 | Computerized Accounting | 6 |
| 5. | ITU 07305 | Data Structure and Algorithms | 6 |

| | | | |
|----------------------------|-----------|-------------------------|-----------|
| 6. | ITU 07306 | Data Communications | 9 |
| Fundamental Modules | | | |
| 7. | GSU 07303 | Development Studies | 9 |
| 8. | MTU 07308 | Mathematical Statistics | 9 |
| Total Credits | | | 63 |

SEMESTER IV

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-------------------------------|-----------|
| Core Modules | | | |
| 1. | ITU 07407 | IT and Cyber Law | 9 |
| 2. | ITU 07401 | Object-Oriented Programming | 12 |
| 3. | ITU 07404 | Web Applications Development | 9 |
| 4. | ITU 07406 | Algorithm Analysis and Design | 9 |
| 5. | ITU 07405 | Field Practical Training II | 12 |
| Fundamental Modules | | | |
| 6. | GSU 07405 | Research Methodology | 12 |
| Total Credits | | | 63 |

(c) Award

On successful completion of the programme a candidate who wishes to exit is awarded the Higher Diploma (NTA Level 7) in Information Technology of the National Institute of Transport.

8.4.1.2. Bachelor's Degree (NTA Level 8) in Information Technology

(a) Purpose of the Qualification

This qualification is designed for a person who will independently study, apply, plan, innovate and manage Information and Communication Technology for better performance in the dynamic business environment.

(b) Modules Summary

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|-------------------------|-------------|-------------------------------------|-----------|
| Core Modules | | | |
| 1. | ITU 08101 | Multimedia Systems | 12 |
| 2. | ITU 08102 | Software Engineering | 12 |
| 3. | ITU 08104 | Network Administration and Security | 12 |
| 4. | ITU 08105 | Mobile Applications Development | 12 |
| 5. | ITU 08107 | Project Proposal | 12 |
| Elective Modules | | | |
| 6. | ITU 08106 | Distributed Systems | 9 |
| 7. | ITU 08107 | Computer Aided Design | 9 |
| Total Credits | | | 78 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | ITU 08207 | Digital Image Processing | 12 |
| 2. | ITU 08208 | Information System Security | 12 |
| 3. | ITU 08204 | Human Computer Interface Design | 12 |
| 4. | ITU 08209 | Geographical Information Systems (GIS) Technologies | 9 |
| 5. | ITU 08206 | Project Work | 18 |
| Fundamental Modules | | | |
| 6. | GSU 08202C | Entrepreneurship | 9 |
| Total Credits | | | 72 |

(c) Award

On successful completion of the programme a candidate is awarded the Bachelor's Degree (NTA Level 8) in Information Technology of the National Institute of Transport.

8.4.2. Diploma in (NTA Level 6) in Information Technology

8.4.2.1. Basic Technician Certificate in Information Technology

(a) Purpose of the Qualification

This qualification is intended for a person that will perform basic office application operations, help desk support and maintenance of computers, installation of computer hardware and software, setting up simple computer networks and provide web services.

(b) Modules Summary

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-------------------------------------|-----------|
| Core Modules | | | |
| 1. | ITT 04101 | Fundamentals of Computer | 12 |
| 2. | ITT 04106 | Office Application | 12 |
| 3. | ITT 04107 | Desktop Publishing Technologies | 12 |
| 4. | ITT 04108 | Computer Maintenance | 15 |
| Fundamental Modules | | | |
| 5. | GST 04101 | Basic Business Communication | 9 |
| 6. | GST 04103 | Geometry and Algebraic Computations | 9 |
| Total Credits | | | 69 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|-------------------------|-------------|----------------------------------|-----------|
| Core Modules | | | |
| 1. | ITT 04203 | Basics of Computer Networking | 12 |
| 2. | ITT 04204 | Basic Website Technology | 12 |
| 3. | ITT 04205 | Basic Database Management System | 12 |
| 4. | ITT 04206 | Field Practical Training | 12 |
| Elective Modules | | | |
| 5. | BBT 04202 | Basics of Marketing | 12 |
| Total Credits | | | 60 |

(c) Award

On successfully completion of the programme a candidate who wishes to exit is awarded the Basic Technician Certificate (NTA Level 4) in Information Technology of the National Institute of Transport.

8.4.2.2. Technician Certificate (NTA Level 5) in Information Technology

(a) Purpose of the Qualification

This qualification is intended for a person who will perform operations related to computer informations systems, network and hardware configurations, design static websites, support end user applications and demonstate entrepreneurshp skills.

(b) Modules Summary

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-------------------------------------|-----------|
| Core Modules | | | |
| 1. | ITT 05104 | Computer Architecture | 9 |
| 2. | ITT 05107 | Fundamentals of Operating Systems | 9 |
| 3. | ITT 05108 | Computer Maintenance and Repair | 12 |
| 4. | ITT 05109 | Fundamentals of Computer Networking | 15 |
| Fundamental Modules | | | |
| 5. | BBT 05103 | Principles of Entrepreneurship | 9 |
| 6. | BBT 05106 | Principles of Accounting | 9 |
| 7. | ITT 05110 | Basic Computing Mathematics | 9 |
| Total Credits | | | 72 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|------------------------------------|-----------|
| Core Modules | | | |
| 1. | ITT 05205 | Computer Programming Principles | 12 |
| 2. | ITT 05206 | Computer Server Administration | 9 |
| 3. | ITT 05208 | Basics of Website Design | 9 |
| 4. | ITT 05209 | Database Management System Concept | 12 |
| 5. | ITT 05211 | Field Practical Training | 12 |
| Fundamental Modules | | | |
| 6. | GST 05201 | Business Communication | 9 |
| 7. | ITT 05210 | Basics of MATLAB | 9 |
| Total Credits | | | 72 |

(c) Award

On successful completion of the programme a candidate who wishes to exit is awarded the Technician Certificate (NTA Level 5) in Information Technology of the National Institute of Transport.

8.4.2.3. Diploma (NTA Level 6) in Information Technology

(a) Purpose of the Qualification

This qualification is intended for a person who will develop, manage and supervise information systems using state of the art technologies and apply knowledge and skills in solving business related problems.

(b) Modules Summary

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-----------------------------|-----------|
| Core Modules | | | |
| 1. | ITT 06104 | Object Oriented Programming | 12 |
| 2. | ITT 06105 | System Analysis and Design | 9 |
| 3. | ITT 06106 | Web Application Development | 12 |
| 4. | ITT 06107 | IT Project Management | 12 |
| 5. | ITT 06108 | Multimedia Concepts | 15 |
| Fundamental Modules | | | |
| 6. | GST 06101 | Development Studies | 9 |
| Total Credits | | | 69 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|-------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | ITT 06203 | Elements of Computerized Accounting | 9 |
| 2. | ITT 06204 | E-Commerce Applications | 12 |
| 3. | ITT06205 | Computer Network Security | 12 |
| 4. | ITT 06206 | Final Year Project | 9 |
| Elective Modules | | | |
| 5. | ITT 06207 | Principles of Customer Relationship Management | 9 |
| Total Credits | | | 51 |

(c) Award

On successful completion of the programme a candidate is awarded the Diploma (NTA Level 6) in Information Technology of the National Institute of Transport.

8.4.3. Bachelor's Degree (NTA Level 7-8) Programme in Computer Science

This Degree programme comprises two levels; the Higher Diploma (NTA Level 7) and Bachelor's Degree (NTA Level 8). Higher Diploma has four semesters (equivalent to two academic years) and Bachelor's degree has two semesters (equivalent to one academic year). The NTA Level 7 is an entry qualification to NTA Level 8.

8.4.3.1. Higher Diploma (NTA Level 7) in Computer Science

(a) Purpose of Qualification

The holder of the qualification will be able to progress to ICT degree courses, equipped with competence, confidence and skills to evaluate ICT requirements in business and implement effective ICT solutions to be capable of being self-employed in ICT industry.

(b) Modules Summary

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | ITU 07101 | Fundamentals of Business Information Systems | 9 |
| 2. | ITU 07102 | Fundamentals of Computers | 12 |
| 3. | ITU 07103 | Programming Principles | 12 |
| Fundamental Modules | | | |
| 4. | GSU 07101 | Business Communication Skills | 9 |
| 5. | GSU 07102 | Development Studies | 9 |
| 6. | GSU 07103 | Computing Mathematics | 12 |
| Total Credits | | | 63 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---------------------------------------|-----------|
| Core Modules | | | |
| 1. | ITU 07201 | Event- Driven Programming | 12 |
| 2. | ITU 07202 | Operating System Concepts | 12 |
| 3. | ITU 07203 | Database Concepts | 12 |
| 4. | ITU 07204 | System Analysis and Design Principles | 9 |
| 5. | ITU 07205 | Computer Networking | 12 |
| 6. | ITU07206 | Practical Training | 8 |
| Fundamental Modules | | | |
| 7. | GSU 07201 | Quantitative Methods | 9 |
| Total Credits | | | 74 |

SEMESTER III

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|-------------------------------|-----------|
| Core Modules | | | |
| 1. | ITU 07301 | Database Technologies | 12 |
| 2. | ITU 07302 | Object-Oriented Programming | 09 |
| 3. | ITU 07303 | Web Design and Internet | 12 |
| 4. | CSU 07304 | Electronics Concepts | 09 |
| 5. | ITU 07305 | Data Structure and Algorithms | 12 |
| 6. | ITU 07306 | Data Communications | 12 |
| Total Credits | | | 66 |

SEMESTER IV

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|-------------------------------------|-----------|
| Core Modules | | | |
| 1. | ITU 07401 | System Analysis and Design with OOP | 12 |
| 2. | GSU 07401 | Laws and Information Technology | 9 |
| 3. | CSU 07403 | Artificial Intelligence | 9 |
| 4. | ITU 07404 | Web Applications Development | 12 |
| 5. | ITU 07405 | Practical Training II | 12 |
| Total Credits | | | 54 |

(c) Award

On successful completion of the programme a candidate who wishes to exit is awarded the Higher Diploma (NTA Level 7) in Computer Science of the National Institute of Transport.

8.4.3.2. Bachelor's Degree (NTA Level 8) in Computer Science

(a) Purpose of the Qualification

This qualification is designed for a person who will independently study, apply, plan, innovate and manage Information and Communication Technology for better performance in the dynamic business environment.

(b) Modules Summary

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | ITU 08101 | Multimedia Systems | 9 |
| 2. | ITU 08102 | Software Engineering | 12 |
| 3. | CSU 08101 | Microcontroller and Microprocessor Technologies | 9 |
| 4. | ITU 08103 | Network Administration | 12 |
| 5. | CSU 08102 | IS Project Management | 12 |
| 6. | ITU 08104 | Mobile Applications Development | 12 |
| Total Credits | | | 66 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|-------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | ITU 08201 | Information System Security | 9 |
| 2. | CSU 08201 | Embedded Systems | 12 |
| 3. | CSU 08202 | Digital Image Processing | 12 |
| 4. | ITU 08204 | Human Computer Interface Design | 9 |
| 5. | CSU 08204 | Project Work | 18 |
| Elective Modules | | | |
| 6. | ITU 08205 | Computer Aided Design | 9 |
| 7. | CSU 08203 | Geographical Information Systems (GIS) Technologies | 9 |
| Total Credits | | | 78 |

(c) Award

On successful completion of the programme candidates are awarded the Bachelor's Degree (NTA Level 8) in Computer Science of the National Institute of Transport.

8.4.4. Academic Staff

Head of Department

Dr. Angela-Aida K. Runyoro PhD in Information Communication Science and Engineering – (NM-AIST), MSc. in Computer Science – (UDSM), BSc. Electrical Engineering – (UDSM), PGD in Managerial Control and Management Information System – (MSM – Netherlands), IT Governance (KDi Singapore), Business Related IT Consultancy – (In Went-German), Systems Development using FOSS – (EACOSS - Uganda), Red Hat Linux – (AFNOG - Kenya)

Examination Coordinator

Mr. Benard Hayuma

MSc. in Computer Science – (PUNE University- India), BSc. in Information System and Network Engineering – (SJUIT)

Lecturers

- Dr. Angela-Aida K. Runyoro PPhD in Information Communication Science and Engineering – (NM-AIST), MSc. in Computer Science – (UDSM), BSc. Electrical Engineering (UDSM), PGD in Managerial Control and Management Information System – (MSM–Netherlands) IT Governance – (KDi Singapore), Business Related IT Consultancy – (InWent-German), Systems Development using FOSS – (EACOSS - Uganda), Red Hat Linux – (AFNOG - Kenya).
- Mr. Daud G. Daudi MSc. International Transport and Logistics – (UDSM), BSc. Computer – (Osmania University – INDIA). Advanced Certificate in Logistics – (Dresden International University – Germany), ELA (EW), MCILT – (UK) TARA (T).

Assistant Lecturers

- Ms. Leticia Edward MSc. in Computer Science – (UDOM), Postgraduate Dip. in Scientific Computing – (UDSM), Advanced Diploma in IT – (IFM)
- Mr. Thomas J. Moshi MSc. in Information Technology Staffordshire University – (UCTI), BSc in Computer – (Mysore University - India), Certified Information System Auditor – (ISACA)
- Mr. Deogratias Mahuwi MSc. in Computer Science – (St. Xavier College-INDIA), B. Computer Science Engineering (St. Joseph College of Engineering and Technology), CCNA-Anna University Chennai-(INDIA), CCNP-Sans Bound-Chennai-(INDIA), Oracle Database Administration-(INDIA), Embedded Systems - St. Joseph College of Engineering and Technology – (INDIA.)
- *Ms. Doreen Sarwatt MSc. in Computer Science – (UDSM), BSc. in Computer Engineering and Information Technology – (UDSM).
- Mr. Christopher D. Ntyangiri MSc. Electronics Engineering – (Graduate School of Electro-Communication, - Japan), BSc. Electronics Engineering – (The University of Electro-Communications, - Japan), Software Engineer/Developer – (Yaskawa Information Systems Corporation-Japan)
- *Ms. Erica H. Kimei MSc. in Information and Communication Science and Engineering - (NM -AIST), BSc. of Science in Information Technology – (SMMUC), Diploma in Information Technology – (MMTI), Diploma in Management of Information System – (Institute for the Management of Information System – UK), Higher Diploma in Management of Information System (Institute for the Management of Information System – UK).
- Ms Neema P. Bhalalusesa MSc. Computer Science – (University of Science Malaysia), BSc in Computer Science – (UDSM)
- Mr. Shabani B. Juma MSc. in Computer Science – (UDOM), BSc. in Computer Science – (UDSM)

| | |
|-------------------------|---|
| Eng. Robert Sikumbili | MSc. Computer Science – (University of Madras-India), B.E Computer Science and Engineering – (St Joseph College of Engineering and Technology), CCNA-USA |
| Mr. Peter G. Mwakalinga | MSc. Computer Science and Technology – (Nanjing University of Information Science and Technology NUIST- (China), B.E Computer Engineering DIT, Diploma in Computer Engineering - (DIT) |
| Mr. Victor S. Nkwera | MSc. Information and Communication Engineering BIT- (China), B.E Electronics and Telecommunication Engineering – (DIT), FTC Electronics and Telecommunication Engineering - (DIT), Business Intelligence Analyst IBM. |
| Mr. Lazaro Kumbo | MSc. Information Security – (IAA), BSc Information Technology – (Stefano Moshi Memorial University College) |
| Mr. Rodrick Mero | MSc. Information and Communication Science and Engineering – (NM-AIST), BSc. Computer Science – (RUCO) |
| Mr. Martin Mushi | MSc. Information Security – (IAA), Advanced Diploma in Computer Science – (IFM) |
| Mr. Benard Hayuma | MSc. in Computer Science – (PUNE University- India), BSc. in Information System and Network Engineering – (SJUIT) |
| Ms. Fatma Kombo | MSc. in information System Management - (UDSM) - BSc. in Computer Engineering and Information Technology – (UDSM). |
| Mr. Livingstone Kimaro | MSc. In Telecommunications Engineering-(UDSM), BSc. in Telecommunication Engineering – (UDSM). |

Senior Tutor

| | |
|----------------------|--|
| *Ms. Celina T. Mfala | MSc. in Information Technology and Management – Avinishilangam University – India), Advanced Diploma in IT – (IAA) |
|----------------------|--|

Tutorial Assistants

| | |
|---------------------|---|
| Mr. Isaya Mathew | BSc. Geomatics-GIS - (UDSM). |
| Ms. Joyce Ringo | BSc. in Information Technology and Network Engineering (St. Joseph College of Engineering and Technology – (DSM). |
| Mr. Jovin J. Kamala | BSc, in ICT with Management (MU) |

***Study Leave**

8.5. BUSINESS AND ENTREPRENEURSHIP STUDIES DEPARTMENT

The department is responsible for planning, organizing and conducting Business Administration, Procurement and Logistics Management, Human Resource Management, Accounting and Transport Finance, and Marketing and Public Relations programmes. Currently the department is conducting the Bachelor's Degree (NTA Level 7-8) programmes and Ordinary Diploma (NTA Level 4-6) programmes.

8.5.1. Bachelor's Degree (NTA Level 7-8) Programme in Procurement and Logistics Management

The programmes comprise two levels; Higher Diploma (NTA Level 7) and Bachelor's Degree (NTA Level 8). Higher Diploma has four semesters (equivalent to two years) and NTA Level 8 has two semesters (equivalent to one year). Therefore, NTA Level 7 is an entry qualification to NTA level 8.

8.5.1.1. Higher Diploma (NTA Level 7) in Procurement and Logistics Management

(a) Purpose of the Qualification

This qualification is intended for a person who will perform a broad range of complex technical procurement and logistics activities including preparation of annual procurement plan, tender documents and management of inventory. As well to manage physical, human and financial resources and conducting research work.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|------------------------------------|-----------|
| Core Modules | | | |
| 1. | PLU 07101 | Procurement and Supply Techniques | 12 |
| Fundamental Modules | | | |
| 2. | GSU 07101 | Business Communication Skills | 9 |
| 3. | ITU 07101 | Computer Applications | 9 |
| 4. | GSU 07104 | Business Statistics | 9 |
| 5. | BBU 07101 | Management Principles and Practice | 12 |
| 6. | BBU 07103 | Financial Accounting | 12 |
| Total Credits | | | 63 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-------------------------|---------|
| Core Modules | | | |
| 1. | BBU 07207 | Marketing Management | 12 |
| 2. | PLU 07202 | Supply Chain Management | 12 |
| Fundamental Modules | | | |
| 4. | GSU 07202 | Quantitative Methods | 9 |

| | | | |
|----------------------|-----------|---|-----------|
| 5. | HRU 07203 | Principles of Human Resource Management | 12 |
| 6. | BBU 07204 | Cost Accounting | 9 |
| 7. | BBU 07205 | Principles of Economics | 9 |
| Total Credits | | | 63 |

SEMESTER III

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---------------------------------|-----------|
| Core Modules | | | |
| 1. | PLU 07305 | Legal Aspects of Procurement | 12 |
| 2. | PLU 07306 | Public Procurement | 12 |
| 3. | PLU 07307 | Procurement Contract Management | 15 |
| 4. | PLU 07308 | Field Practical Training | 12 |
| Fundamental Modules | | | |
| 4. | GSU 07303 | Development Studies | 9 |
| 5. | PLU 07304 | Managerial Economics | 12 |
| Total Credits | | | 72 |

SEMESTER IV

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | PLU 07408 | Procurement and Supply Audit | 15 |
| 2. | PLU 07409 | Warehouse Management | 12 |
| 3. | PLU 07410 | International Procurement and Logistics | 12 |
| Fundamental Modules | | | |
| 4. | GSU 07405 | Research Methodology | 9 |
| 5. | BBU 07415 | Financial Management | 12 |
| Total Credits | | | 60 |

(c) Award

On successful completion of the course, a candidate who wishes to exit is awarded a Higher Diploma in Procurement and Logistics Management of the National Institute of Transport.

8.5.1.2. Bachelor's Degree (NTA Level 8) in Procurement and Logistics Management

(a) Purpose of the Qualification

This qualification is intended to a person who will perform wide and procurement and logistics duties including formulation of policies, preparation of strategic procurement plans and manage domestic and international business contracts.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | PLU 08101 | Field Practical Training | 12 |
| 2. | PLU 08102 | Freight Forwarding Management | 12 |
| 3. | PLU 08103 | Procurement Management | 12 |
| 4. | PLU 08104 | Procurement and Supply Chain Risks Management | 4 |
| Fundamental Modules | | | |
| 5. | BBU 08105 | Business Ethics and Good Governance | 12 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|------------------------------------|-----------|
| Core Modules | | | |
| 1. | PLU 08205 | Inventory Management and Control | 12 |
| 2. | PLU 08206 | Strategic Procurement | 9 |
| 3. | PLU 08207 | Logistics and Transport Management | 9 |
| 4. | PLU 08208 | Research Project | 12 |
| Fundamental Modules | | | |
| 5. | BBU 08206 | Entrepreneurship Skills | 9 |
| 6. | BBU 08210 | Project Management | 12 |
| Total Credits | | | 63 |

(c) Award

On successful completion of the course, a candidate is awarded a Bachelor's Degree (NTA Level 8) in Procurement and Logistics Management of the National Institute of Transport.

8.5.2. Diploma (NTA Level 6) in Procurement and Logistics Management

8.5.2.1. Basic Technician Certificate (NTA Level 4) in Procurement and Logistics Management Programme

(a) Purpose of the Qualification

This qualification is intended for persons who will perform routine Procurement and Logistics duties, communicate properly, apply basic computer knowledge in Procurement duties, and address emerging social economic challenges.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | PLT 04101 | Elements of Procurement and Logistics | 12 |
| Fundamental Modules | | | |
| 2. | GST 04101 | Basic Business Communication | 9 |
| 3. | ITT 04101 | Basic Computer Knowledge | 9 |
| 4. | BBT 04101 | Elements of Accounting | 12 |
| 5. | BBT 04102 | Basic Commercial Knowledge | 12 |
| 6. | HRT 04102 | Elements of Societal and Environmental Studies | 9 |
| Total Credits | | | 63 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | PLT 04202 | Store Keeping | 15 |
| 2. | PLT 04203 | Principles of Freight Forwarding | 12 |
| 3. | LTT 04207 | Logistics and Transport Operations | 12 |
| Fundamental Modules | | | |
| 4. | GST 04202 | Basic Business Mathematics | 9 |
| 5. | BBT 04201 | Office Practice and Records Management | 12 |
| Total Credits | | | 60 |

(c) Award

Upon successfully completion of the programme, a candidate who wishes to exit is awarded the Basic Technician Certificate in Procurement and Logistics Management of the National Institute of Transport.

8.5.2.2. Technician Certificate (NTA Level 5) in Procurement and Logistics Management

(a) Purpose of the Qualification

This qualification is intended for persons who will perform routine and non routine procurement and logistics duties including preparation of transport and maintenance schedules and assist in procurement and stock control activities.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-------------------------------------|-----------|
| Core Modules | | | |
| 1. | PLT 05101 | Principles of Physical Distribution | 12 |
| 2. | PLT 05102 | Principles of Stores Administration | 12 |
| Fundamental Modules | | | |
| 3. | ITT 05101 | Basic Computer Applications | 9 |
| 4. | BBT 05101 | Principles of Accounting | 12 |
| 5. | BBT 05102 | Commercial Knowledge | 12 |
| 6. | BBT 05103 | Principles of Entrepreneurship | 9 |
| 7. | PLT 05104 | Field Practical Training | 12 |
| Total Credits | | | 78 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--------------------------------|-----------|
| Core Modules | | | |
| 1. | PLT 05203 | Procurement Principles | 12 |
| 2. | PLT 05204 | Stock Control | 12 |
| 3. | PLT 05205 | Principle of Economics | 12 |
| Fundamental Modules | | | |
| 4. | GST 05201 | Business Communication | 9 |
| 5. | GST 05202 | Basics of Business Statistics | 9 |
| 6. | BBT 05205 | Basic Principles of Management | 12 |
| Total Credits | | | 66 |

(c) Award

Upon successfully completion of the programme, a candidate who wishes to exit is awarded the Technician Certificate in Procurement and Logistics Management of the National Institute of Transport.

8.5.2.3. Diploma (NTA Level 6) in Procurement and Logistics Management

(a) Purpose of the Qualification

This qualification is intended for a person who will perform non routine procurement planning, preparation and managing modest contracts, assisting in procurement negotiations, evaluation of tender documents and managing supplies.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | PLT 06101 | Procurement Procedures | 12 |
| 2. | PLT 06102 | Basics of Cost Accounting | 12 |
| 3. | PLT 06103 | Field Practical Training | 12 |
| Fundamental Modules | | | |
| 4. | GST 06101 | Development Studies | 9 |
| 5. | GST 06102 | Fundamentals of Business Law | 9 |
| 6. | HRT 06103 | Basics of Occupation Health and Safety | 9 |
| Total Credits | | | 63 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | PLT 06203 | Inventory Control | 15 |
| 2. | PLT 06204 | Elements of e-Procurement | 15 |
| Fundamental Modules | | | |
| 3. | GST 06203 | Business Mathematics and Statistics | 9 |
| 4. | ITT 06201 | Principles of Management Information Systems | 9 |
| 5. | BBT 06205 | Principles of Management | 12 |
| Total Credits | | | 60 |

(c) Award

On successful completion of the programme a candidate is awarded the Diploma in Procurement and Logistics Management of the National Institute of Transport.

8.5.3. Bachelor's Degree (NTA Level 7-8) Programme in Business Administration

The programmes comprise two levels; Higher Diploma (NTA Level 7) and Bachelor's Degree (NTA Level 8). Higher Diploma has four semesters (equivalent to two years) and NTA Level 8 has two semesters (equivalent to one year). Therefore, NTA Level 7 is an entry qualification to NTA level 8.

8.5.3.1. Higher Diploma (NTAL level 7) in Business Administration

(a) Purpose of the Qualification

This qualification is intended for a person who will participate in planning, organization and evaluating, performance of a business organization and recommend appropriate measures for management decision.

(b) Summary of Modules**SEMESTER I**

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|------------------------------------|-----------|
| Core Modules | | | |
| 1. | BBU 07101 | Management Principles and Practice | 12 |
| 2. | BBU 07102 | Business Taxation | 9 |
| 3. | BBU 07103 | Financial Accounting | 12 |
| Fundamental Modules | | | |
| 4. | GSU 07101 | Business Communication Skills | 9 |
| 5. | GSU 07104 | Business Statistics | 9 |
| 6. | ITU 07101 | Computer Applications | 9 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | BBU 07204 | Cost Accounting | 9 |
| 2. | BBU 07205 | Principles of Economics | 9 |
| 3. | BBU 07206 | Procurement and Supply Procedures | 9 |
| 4. | BBU 07207 | Marketing Management | 12 |
| 5. | BBU 07208 | Small Business Management | 12 |
| Fundamental Modules | | | |
| 6. | GSU 07202 | Quantitative Methods | 9 |
| 7. | HRU 07203 | Principles of Human Resource Management | 12 |
| Total Credits | | | 60 |

SEMESTER III

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--------------------------|-----------|
| Core Modules | | | |
| 1. | BBU 07310 | Organizational Behavior | 12 |
| 2. | BBU 07311 | Corporate Governance | 12 |
| 3. | BBU 07312 | Business Environment | 9 |
| 4. | BBU 07313 | Field Practical Training | 12 |
| Fundamental Modules | | | |
| 5. | GSU 07303 | Development Studies | 9 |
| 6. | BBU 07309 | Business Law | 9 |
| Total Credits | | | 63 |

SEMESTER IV

| S/No | Module Code | Module Name | Credits |
|---|-------------|-----------------------------------|-----------|
| Core Modules | | | |
| 1. | BBU 07414 | Financial Management | 12 |
| 2. | BBU 07415 | Management Information Systems | 9 |
| 3. | BBU 07416 | International Business Management | 9 |
| 4. | BBU 07417 | Risk Management | 9 |
| 5. | BBU 07418 | Field Practical Training | 12 |
| Fundamental Modules | | | |
| 6. | GSU 07405 | Research Methodology | 9 |
| Total Credit Hours for Semester IV | | | 60 |

(c) Award

On successful completion of the course, a candidate who wishes to exit is awarded a Higher Diploma in Business Administration of the National Institute of Transport.

8.5.3.2. Bachelor's Degree (NTA Level 8) in Business Administration

(a) Purpose of the Qualification

This qualification is intended for a person who will perform Business administrative duties including formulation of policies, project appraisal, and preparation of strategic plans and manage business activities.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-------------------------------------|-----------|
| Core Modules | | | |
| 1. | BBU 08103 | Field Practical Training | 12 |
| 2. | BBU 08104 | Business Planning and Development | 9 |
| 3. | BBU 08105 | Business Ethics and Good Governance | 12 |
| 4. | BBU 08106 | E-Business | 9 |
| Fundamental Modules | | | |
| 5. | BBU 08101 | Marketing Research | 9 |
| 6. | BBU 08102 | Service Marketing | 9 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|---------------------|-------------|---------------------------|---------|
| Core Modules | | | |
| 1. | BBU 08208 | Corporate Finance | 9 |
| 2. | BBU 08210 | Project Management | 12 |
| 3. | BBU 08207 | Management Accounting | 9 |
| 4. | BBU 08209 | Management Control System | 9 |

| | | | |
|----------------------------|-----------|-------------------------------------|-----------|
| 5. | BBU 08211 | Research Project | 12 |
| Fundamental Modules | | | |
| 6. | BBU 08206 | Entrepreneurship Skills | 9 |
| 7. | BBU 08205 | Production and Operation Management | 9 |
| Total Credits | | | 69 |

(c) Award

On successful completion of the course, is candidate is awarded a Bachelor's Degree (NTA Level 8) in Business Administration of the National Institute of Transport.

8.5.4. Diploma (NTA Level 6) in Business Administration

8.5.4.1. Basic Technician Certificate (NTA Level 4) in Business Administration Programme

(a) Purpose of the Qualification

This qualification is intended for persons who perform routine business administration duties, communicate properly, apply basic accounting, computer and mathematical knowledge in performing duties, preparing simple report, recording stores/sales receipts, maintaining records and documents and managing his/her own small business.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-------------------------------------|-----------|
| Core Modules | | | |
| 1. | BBT 04101 | Element of Accounting | 12 |
| 2. | BBT 04102 | Basic Commercial Knowledge | 12 |
| 3. | BBT 04103 | Elements of Business Administration | 18 |
| Fundamental Modules | | | |
| 4. | GST 04101 | Basic Business Communication | 9 |
| 5. | ITT 04101 | Basic Computer Knowledge | 9 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | BBT 04201 | Office Practice and Records Management | 12 |
| 2. | BBT 04202 | Basics of Marketing | 12 |
| 3. | BBT 04203 | Element of Small Business Management | 9 |
| 4. | BBT 04204 | Element of Business Law | 9 |
| 5. | BBT 04205 | Field Practical Training | 12 |
| Fundamental Modules | | | |
| 6. | GST 04202 | Basic Business Mathematics | 9 |
| Total Credits | | | 63 |

(c) Award

Upon successfully completion of the programme, a candidate who wishes to exit is awarded the Basic Technician Certificate in Business Administration of the National Institute of Transport.

8.5.4.2. Technician Certificate (NTA Level 5) in Business Administration

(a) Purpose of the Qualification

This qualification is intended for persons who perform routine and non-routine business duties including assisting in procurement, selling and storage functions, preparing reports, processing in recording business related information handling customers.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---------------------------------------|-----------|
| Core Modules | | | |
| 1. | BBT 05101 | Principles of Accounting | 12 |
| 2. | BBT 05102 | Commercial Knowledge | 12 |
| 3. | BBT 05104 | Principles of Marketing | 9 |
| 4. | BBT 05105 | Principles of Business Administration | 9 |
| 5. | BBT 04205 | Field Practical Training | 12 |
| Fundamental Modules | | | |
| 5. | ITT 05101 | Basic Computer Applications | 9 |
| 6. | BBT 05103 | Principles of Entrepreneurship | 9 |
| Total Credits | | | 72 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--------------------------------------|-----------|
| Core Modules | | | |
| 1. | BBT 05204 | Elements of Financial Management | 9 |
| 2. | BBT 05206 | Principles of Procurement and Supply | 9 |
| 3. | BBT 05205 | Basic Principles of Management | 12 |
| 4. | BBT 05207 | Principles of Economics | 12 |
| Fundamental Modules | | | |
| 5. | GST 05201 | Business Communication | 9 |
| 6. | GST 05202 | Basic Business Statistics | 9 |
| Total Credits | | | 72 |

(c) Award

Upon successfully completion of the programme, a candidate who wishes to exit is awarded the Technician Certificate in Business Administration of the National Institute of Transport.

8.5.4.3. Diploma (NTA Level 6) in Business Administration

(a) Purpose of the Qualification

This qualification is intended for a person who performs non-routine business administration duties including collect and process data for/ on business operations, assist in planning and preparing budgets at sectional or department level, supervise business operations and prepare periodic reports.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | BBT 06101 | Principles of Financial Accounting | 15 |
| 2. | BBT 06102 | Principles of Economics | 12 |
| 3. | BBT 06103 | Stores Administration and Inventory Control | 15 |
| Fundamental Modules | | | |
| 4. | GST 06101 | Development Studies | 9 |
| 5. | GST 06102 | Fundamentals of Business Law | 9 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | BBT 06204 | Basic of Management Accounting | 9 |
| 2. | BBT 06205 | Principles of Management | 12 |
| 3. | BBT 06206 | Production Management | 12 |
| 4. | BBT 06207 | Elements of Business Research | 12 |
| Fundamental Modules | | | |
| 5. | GST 06203 | Business Mathematics and Statistics | 9 |
| 6. | ITT 06201 | Principles of Management Information System | 9 |
| Total Credits | | | 63 |

(c) Award

On successfully completion of the programme a candidate is awarded the Diploma in Business Administration of the National Institute of Transport.

8.5.5. Bachelor's Degree (NTA Level 7-8) Programme in Human Resource Management

The programmes comprise two levels; Higher Diploma (NTA Level 7) and Bachelor's Degree (NTA Level 8). Higher Diploma has four semesters (equivalent to two years) and NTA Level 8 has two semesters (equivalent to one year). Therefore, NTA Level 7 is an entry qualification to NTA level 8.

8.5.5.1. Higher Diploma (NTA Level 7) in Human Resource Management

(a) Purpose of the Qualification

This qualification is intended for a person who performs human resource management activities at the managerial level. These include preparing departmental budget, human resource planning, handling with staff training programmes and implement performance management activities in both private and public organizations.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|------------------------------------|-----------|
| Core Modules | | | |
| 1. | BBU 07101 | Management Principles and Practice | 12 |
| 2. | HRU 07101 | Organizational Development | 12 |
| 3. | HRU 07102 | Administrative Law | 9 |
| Fundamental Modules | | | |
| 4. | GSU 07101 | Business Communication Skills | 9 |
| 5. | ITU 07101 | Computer Applications | 9 |
| 6. | GSU 07104 | Business Statistics | 9 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | GSU 07203 | Principles of Human Resource Management | 12 |
| 2. | HRU 07204 | Occupational Health and Safety | 9 |
| 3. | HRU 07205 | Field Practical Training | 12 |
| Fundamental Modules | | | |
| 4. | GSU 07202 | Quantitative Methods | 9 |
| 5. | BBU 07205 | Principles of Economics | 9 |
| 6. | BBU 07207 | Marketing Management | 12 |
| Total Credits | | | 63 |

SEMESTER III

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-----------------------------------|---------|
| Core Modules | | | |
| 1. | BBU 07311 | Corporate Governance | 12 |
| 2. | HRU 07306 | Organization Behavior | 12 |
| 3. | HRU 07307 | Principles of Business Accounting | 9 |
| Fundamental Modules | | | |

| | | | |
|----------------------|-----------|-----------------------------------|-----------|
| 4. | GSU 07303 | Development Studies | 9 |
| 5. | BBU 07312 | Business Environment | 9 |
| 6. | BBU 07306 | Procurement and Supply Procedures | 9 |
| Total Credits | | | 60 |

SEMESTER IV

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | BBU 07415 | Management Information System | 12 |
| 2. | HRU 07409 | Human Resource Planning | 9 |
| 3. | HRU 07410 | Human Resource Training and Development | 12 |
| Fundamental Modules | | | |
| 4. | GSU 07405 | Research Methodology | 9 |
| 5. | BBU 07414 | Financial Management | 12 |
| 6. | HRU 07408 | Operations Management | 9 |
| Total Credits | | | 63 |

(c) Award

On successful completion of the course, a candidate who wishes to exit is awarded a Higher Diploma in Human Resources Management of the National Institute of Transport.

8.5.5.2. Bachelor's Degree (NTA Level 8) in Human Resource Management

(a) Purpose of the Qualification

This qualification is intended for a person who will perform Human Resource Management duties including formulating policies, appraising projects, preparing strategic plans and managing occupational Health and Safety programs, nationally and internationally.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-------------------------------------|-----------|
| Core Modules | | | |
| 1. | HRU 08102 | Field Practical Training | 12 |
| 2. | HRU 08103 | Performance Management | 9 |
| 3. | HRU 08104 | Human Resource Information System | 9 |
| 4. | HRU 08105 | Decision Making Techniques | 9 |
| Optional Modules | | | |
| 5. | HRU 08106 | Human Resource Policy Development | 9 |
| Fundamental Modules | | | |
| 6. | BBU 08101 | Strategic Management | 9 |
| 7. | BBU 08105 | Business Ethics and Good Governance | 12 |
| Total Credits | | | 69 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | HRU 08207 | Managerial and Leadership Skills | 9 |
| 2. | HRU 08208 | International Human Resource Management | 9 |
| 3. | HRU 08209 | Strategic Human Resource Management | 12 |
| 4. | BHU 082010 | Research Project | 12 |
| Fundamental Modules | | | |
| 5. | BBU 08206 | Entrepreneurship Skills | 9 |
| 6. | BBU 08210 | Project Management | 12 |
| Total Credits | | | 63 |

(c) Award

On successful completion of the course, a candidate is awarded a Bachelor's Degree (NTA Level 8) in Human Resources Management of the National Institute of Transport.

8.5.6. Diploma (NTA Level 6) in Human Resources Management

8.5.6.1. Basic Technician Certificate (NTA Level 4) in Human Resources Management Programme

(a) Purpose of the Qualification

This qualification is intended for persons who perform routine human resource management duties including safe keeping of employee records, deal with incoming and outgoing mails, use computer application to collect/retrieve, process and disseminate information.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | HRT 04101 | Basic of Human Resource Management | 12 |
| 2. | HRT 04102 | Elements of Societal and Environment Studies | 12 |
| Fundamental Modules | | | |
| 3. | GST 04101 | Basic Business Communication | 9 |
| 4. | ITT 04101 | Basic Computer Knowledge | 9 |
| 5. | BBT 04101 | Element of Accounting | 12 |
| 6. | BBT 04102 | Basic Commercial knowledge | 12 |
| Total Credits | | | 66 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | HRT 04203 | Basic Principle of Management | 12 |
| 2. | HRT 04204 | Elements of Entrepreneurship | 9 |
| 3. | BBT 04204 | Elements of Business Law | 9 |
| 4. | BBT 04202 | Basics of Marketing | 12 |
| Fundamental Modules | | | |
| 5. | GST 04202 | Basic Business Mathematics | 9 |
| 6. | BBT 04201 | Office Practice and Records Management | 12 |
| Total Credits | | | 63 |

(c) Award

Upon successfully completion of the programme, a candidate who wishes to exit is awarded the Basic Technician Certificate in Human Resources Management.

8.5.6.2. Technician Certificate (NTA Level 5) in Human Resources Management

(a) Purpose of the Qualification

This qualification is intended for a person who performs routine human resource duties including maintaining personnel records., collect data necessary for staff training and development, use computer application to prepare various office documents.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | BBT 05104 | Principles of Marketing | 9 |
| 2. | HRT 05101 | Fundamentals of Human Resource Management | 12 |
| 3. | HRT 05102 | Fundamentals of Office Management | 9 |
| 4. | BBT 05101 | Principles of Accounting | 12 |
| 5. | HRT 05103 | Field Practical Training | 12 |
| Fundamental Modules | | | |
| 5. | ITT 05101 | Basic Computer Applications | 9 |
| 6. | BBT 05103 | Principles of Entrepreneurship | 9 |
| Total Credits | | | 72 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--------------------------------------|-----------|
| Core Modules | | | |
| 1. | BBT 05205 | Basic Principles of Management | 12 |
| 2. | BBT 05206 | Principles of Procurement and Supply | 9 |
| 3. | HRT 05203 | Supervisory Skills | 9 |
| 4. | HRT 05204 | Principles of Economics | 12 |
| Fundamental Modules | | | |
| 5. | GST 05201 | Business Communication | 9 |
| 6. | GST 05202 | Basic Business Statistics | 9 |
| Total Credits | | | 60 |

(c) Award

Upon successful completion of the programme, candidates who wish to exit are awarded the Technician Certificate in Human Resources Management of the National Institute of Transport.

8.5.6.3. Diploma (NTA Level 6) in Human Resources Management

(a) Purpose of the Qualification

This qualification is intended for a person who performs human resource management duties including assisting in acquiring, rewarding, maintaining human resource and preparation of departmental budgets, staff training programs and human resource plans.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | HRT 06101 | Human Resource Planning | 12 |
| 2. | HRT 06102 | Industrial Relations | 9 |
| 3. | HRT 06103 | Basics of Occupational Health and Safety | 9 |
| 4. | HRT 06104 | Staff Recruitment and Selection | 9 |
| Fundamental Modules | | | |
| 5. | GST 06101 | Development Studies | 9 |
| 6. | BBT 06102 | Field Practical Training | 12 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|---------------------|-------------|------------------------------------|---------|
| Core Modules | | | |
| 1. | HRT 06204 | Labour Law | 9 |
| 2. | HRT 06205 | Staff Training | 12 |
| 3. | HRT 06206 | Elements of Performance Management | 9 |

| | | | |
|----------------------------|-----------|--|-----------|
| 4. | HRT 06207 | Elements of Business Research | 12 |
| Fundamental Modules | | | |
| 5. | GST 06203 | Business Mathematics and Statistics | 9 |
| 6. | ITT 06201 | Principles of Management Information Systems | 9 |
| Total Credits | | | 60 |

(c) Award

On successful completion of the programme, a candidate is awarded the Diploma in Human Resources Management of the National Institute of Transport.

8.5.7. Bachelor's Degree (NTA Levels 7-8) Programme in Accounting and Transport Finance

This degree programme comprises two levels: The Higher Diploma (NTA Level 7) and Bachelor's degree (NTA Level 8). Higher Diploma has four semesters (equivalent to two academic years) and Bachelor's degree has two semesters (equivalent to one academic year). The NTA Level 7 is an entry qualification to NTA Level 8.

8.5.7.1. Higher Diploma (NTA Level 7) in Accounting and Transport Finance

(a) Purpose of the Qualification

This qualification is intended for a person who will perform non routine Accounting and Transport Finance duties including preparation of financial statements, departmental budget, perform auditing, taxation, manage small enterprise, and manage finance in Transport Organizations.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---------------------------------------|-----------|
| Core Modules | | | |
| 1. | BAU 07101 | Principle of Accounting | 15 |
| 2. | BAU 07102 | Business Mathematics | 10 |
| 3. | BAU 07103 | Communication Skills | 09 |
| 4. | BAU 07104 | Freight and Transportation Accounting | 12 |
| Fundamental Modules | | | |
| 5. | BAU 07105 | Development Studies | 09 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-------------------------------------|-----------|
| Core Modules | | | |
| 1. | ITU 07208 | Management Information Technology | 10 |
| 2. | BAU 07209 | Management Principles and Practices | 10 |
| 3. | BAU 07206 | Financial Accounting | 15 |
| 4. | BAU 07210 | Transport Finance | 15 |
| Fundamental Modules | | | |
| 5. | BAU 07207 | Business Statistics | 10 |
| Total Credits | | | 60 |

SEMESTER III

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--------------------------------------|-----------|
| Core Modules | | | |
| 1. | BAU 07311 | Cost Accounting | 12 |
| 2. | BAU 07312 | Marketing Management | 9 |
| 3. | BAU 07313 | Risks Management | 12 |
| 4. | BAU 07314 | Research Methodology and Consultancy | 9 |
| Fundamental Modules | | | |
| 5. | BAU 07315 | Business Law | 12 |
| Total Credits | | | 54 |

SEMESTER IV

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|-------------------------------|-----------|
| Core Modules | | | |
| 1. | BAU 07416 | Airline Finance | 9 |
| 2. | BAU 07417 | Advanced Financial Accounting | 9 |
| 3. | BAU 07418 | Auditing Theory and Practice | 9 |
| 4. | BAU 07419 | Entrepreneurship | 9 |
| 5. | BAU 07420 | Macro economics | 9 |
| 6. | BAU 07421 | Fieldwork Practice | |
| Total Credits | | | 66 |

(c) Award

On successful completion of the course, a candidate who wishes to exit is awarded a Higher Diploma in Accounting and Transport Finance of the National Institute of Transport.

8.5.7.2. Bachelor's Degree (NTA level 8) in Accounting and Transport Finance

(a) Purpose of the Qualification

This qualification is intended for a person who will perform non routine Accounting and Transport Finance duties including preparation of financial statements, departmental budget, perform auditing, taxation, manage small enterprise, and manage finance in Transport Organizations.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | BAU 08101 | Transport Costing and Finance | 12 |
| 2. | BAU 08102 | Introduction to Financial reporting | 9 |
| 3. | BAU 08103 | Taxation | 12 |
| 4. | BAU 08104 | Quantitative Methods for decision making | 9 |
| 5. | BAU 08105 | Auditing | 12 |
| Total Credits | | | 54 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|----------------------------------|-----------|
| Core Modules | | | |
| 1. | BAU 08206 | Financial reporting | 9 |
| 2. | BAU 08207 | Investment Analysis | 12 |
| 3. | BAU 08208 | International Finance | 12 |
| 4. | BAU 08209 | Management Accounting | 12 |
| 5. | BAU 08210 | Electronic Business (E-Business) | 9 |
| Total Credits | | | 54 |

(c) Award

On successful completion of the course, a candidate is awarded a Bachelor's Degree (NTA Level 8) in Accounting and Transport Finance of the National Institute of Transport.

8.5.8. Diploma (NTA Level 6) in Accounting and Transport Finance

8.5.8.1. Basic Technician Certificate (NTA Level 4) in Accounting and Transport Finance (BCATF)

(a) Purpose of the Qualification

This qualification is intended to persons, who will perform routine works in Accounting and Transport Finance field within industries, companies and could be self-employed.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | BAT 04101 | Bookkeeping and Accounting I | 15 |
| 2. | BAT 04102 | Basic Commercial Knowledge | 9 |
| 3. | BAT 04103 | Introduction to Transport Finance | 15 |
| Fundamental Modules | | | |
| 4. | BAT 04104 | Elements of Mathematics and Statistics | 12 |
| 5. | BAT 04105 | Introduction to Business Communication | 9 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-------------------------------|-----------|
| Core Modules | | | |
| 1. | BAT 04201 | Bookkeeping and Accounting II | 12 |
| 2. | BAT 04202 | Introduction to Transport | 12 |
| 3. | BAT 04205 | Introduction to Taxation | 15 |
| Fundamental Modules | | | |
| 4. | BAT 04203 | Basic Entrepreneurship | 9 |
| 5. | BAT 04204 | Basic Computer Applications | 12 |
| Total Credits | | | 60 |

(c) Award

Upon successful completion of the programme, a candidate who wishes to exit is awarded the Basic Technician Certificate in Accounting and Transport Finance of the National Institute of Transport.

8.5.8.2. Technician Certificates (NTA Level 5) in Accounting and Transport Finance

(a) Purpose of the Qualification

This qualification is intended for persons who will competently work at technical level positions in the accounting and transport finance sectors.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|---|-------------|--------------------------------------|-----------|
| Core Modules | | | |
| 1. | BAT 05101 | Introduction to Cost Accounting | 12 |
| 2. | BAT 05102 | Introduction to Accounting | 15 |
| Fundamental Modules | | | |
| 3. | BAT 05103 | Business Mathematics and Statistics | 12 |
| 4. | BAT 05104 | Elements of Economics | 9 |
| 5. | BAT 05105 | Introduction to Communication Skills | 12 |
| Total Credit Hours in Semester I | | | 53 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | BAT 05201 | Introduction to Accounting II | 12 |
| 2. | BAT 05202 | Basics of Corporate Finance and Financial Services | 12 |
| 3. | BAT 05204 | Principles of Taxation | 12 |
| Fundamental Modules | | | |
| 4. | BAT 05203 | Commerce | 12 |
| 5. | BAT 05205 | Introduction to Computer Applications | 12 |
| Total Credits | | | 60 |

(c) **Award**

Upon successfully completion of the programme, a candidate who wishes to exit is awarded the Technician Certificate in Accounting and Transport Finance of the National Institute of Transport.

8.5.8.3. Diploma (NTA Level 6) in Accounting and Transport Finance

(a) **Purpose of the Qualification**

This qualification is intended for a person who will perform non routine accounting and Transport Finance duties including preparation of financial statements, departmental budget, perform auditing, taxation, manage small enterprise, and manage finance in Transport Organizations.

(b) **Summary of Modules**

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|---|-------------|---|-----------|
| Core Modules | | | |
| 1. | BAT 06101 | Principles of Economics and Taxation | 12 |
| 2. | BAT 06102 | Introduction to Financial Accounting | 12 |
| 3. | BAT 06105 | Introduction to Auditing | 15 |
| Total Credit Hours in Semester I | | | |
| 4. | BAT 06103 | Business Mathematics and Statistics | 12 |
| 5. | BAT 06104 | Principles of Procurement and Logistics | 9 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---------------------------------------|-----------|
| Core Modules | | | |
| 1. | BAT 06202 | Introduction to corporate Finance | 15 |
| 2. | BAT 06203 | Introduction to micro finance | 12 |
| 3. | BAT 06204 | Transport Technology | 9 |
| Fundamental Modules | | | |
| 4. | BAT 06201 | Principles and practice of Management | 12 |
| 5. | BAT 06205 | Commercial Law | 12 |
| Total Credits | | | 60 |

(c) **Award**

On successfully completion of the programme a candidate is awarded the Diploma in Accounting and Transport Finance of the National Institute of Transport.

8.5.9. Bachelor's Degree (NTA Levels 7-8) Programme in Marketing and Public Relations

This degree programme comprises two levels: The Higher Diploma (NTA Level 7) and Bachelor's degree (NTA Level 8). Higher Diploma has four semesters (equivalent to two academic years) and Bachelor's degree has two semesters (equivalent to one academic year). The NTA Level 7 is an entry qualification to NTA Level 8.

8.5.9.1. Higher Diploma (NTAL level 7) in Marketing and Public Relations

(a) Purpose of the Qualification

This qualification is intended for a person who will perform non a broad range of complex technical marketing and public relations activities including applying marketing management and consumer behavior skills, manage events and public relations, conducting, advertising and promotion as well as research and consultancy.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|---|-------------|---|-----------|
| Core Modules | | | |
| 1. | BMU 07104 | Public Relations | 9 |
| 2. | BMU 07105 | Business and Media Law | 12 |
| Fundamental Modules | | | |
| 3. | BMU 07101 | Business Communication and Report Writing | 9 |
| 4. | BMU 07102 | Development Studies | 9 |
| 5. | BMU 07103 | Business Mathematics and Statistics | 9 |
| Total Credit Hours in Semester I | | | 48 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | BMU 07206 | Business Information Technology | 9 |
| 2. | BMU 07207 | Marketing Management | 9 |
| 3. | BMU 07208 | Principles of Management | 9 |
| 4. | BMU 07209 | Managerial Economics | 7 |
| 5. | BMU 07210 | Public Relations Writing | 9 |
| 6. | BMU 07211 | Entrepreneurship Development & business environment | 9 |
| Total Credits | | | 52 |

SEMESTER III

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|--------------------------------------|-----------|
| Core Modules | | | |
| 1. | BMU 07312 | Business Accounting and Costing | 9 |
| 2. | BMU 07314 | Quantitative Methods for Business | 9 |
| 3. | BMU 07315 | Research Methodology and Consultancy | 9 |
| 4. | BMU 07315 | Customer Relationship Management | 12 |
| 5. | BMU 07316 | Marketing Research | 9 |
| 6. | BMU 07317 | Organizational Behaviour | 9 |
| Total Credits | | | 57 |

SEMESTER IV

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|--------------------------------------|-----------|
| Core Modules | | | |
| 1. | BMU 07418 | Consumer Behaviour | 9 |
| 2. | BMU 07419 | Media Relations | 9 |
| 3. | BMU 07420 | Public Relations Campaign Management | 9 |
| 4. | BMU 07421 | Advertising and Promotion | 9 |
| 5. | BMU 07422 | Events Management | 9 |
| 6. | BMU 07423 | Public Relations Strategies | 9 |
| 7. | BMU 07424 | Field work Project | 12 |
| Total Credits | | | 66 |

(c) Award

On successful completion of the course, a candidate who wishes to exit is awarded a Higher Diploma in Marketing and Public Relations of the National Institute of Transport.

8.5.9.2. Bachelor's Degree (NTA level 8) in Marketing and Public Relations

(a) Purpose of the Qualification

This qualification is intended for a person who will perform a wide range of strategic managerial duties including: - managing crisis, handling corporate public relations issues, service marketing, and managing organization resources.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|------------------------------|-----------|
| Core Modules | | | |
| 1. | BMU 08101 | Strategic Management | 8 |
| 2. | BMU 08102 | Issues and Crisis Management | 12 |
| 3. | BMU 08103 | Corporate Public Relations | 12 |
| 4. | BMU 08104 | Business Ethics | 8 |
| 5. | BMU 08105 | International Marketing | 12 |
| 6. | BMU 08106 | Human Resource Management | 8 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | BMU 08207 | Contemporary Issues in Marketing and Public Relations | 10 |
| 2. | BMU 08208 | Service Marketing | 12 |
| 3. | BMU 08209 | Corporate Social Responsibility | 10 |
| 4. | BMU 08210 | E-Marketing and E-Public Relations | 12 |
| 5. | BMU 08211 | Financial Management | 8 |
| 6. | BMU 08212 | Project Paper | 8 |
| Total Credits | | | 60 |

(c) Award

On successful completion of the course, a candidate is awarded a Bachelor's Degree (NTA Level 8) in Marketing and Public Relations of the National Institute of Transport.

8.5.10. Ordinary Diploma (NTA Level 6) in Marketing and Public Relations

8.5.10.1. Basic Technician Certificate (NTA Level 4) in Marketing and Public Relations

(a) Purpose of the Qualification

This qualification is intended for a person who will perform routine Marketing duties, communicate properly, and apply basic computer knowledge in business duties.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--------------------------------------|-----------|
| Core Modules | | | |
| 1. | BAT 04102 | Basic Commercial Knowledge | 12 |
| 2. | BAT 04105 | Elements of Public Relations | 12 |
| Fundamental Modules | | | |
| 3. | BAT 04101 | Introduction to Communication Skills | 12 |
| 4. | BAT 04103 | Bookkeeping | 12 |
| 5. | BAT 04104 | Commercial Arithmetic | 12 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | BAT 04206 | Introduction to Marketing | 12 |
| 2. | BAT 04207 | Elements of Procurement and Logistics | 15 |
| 3. | BAT 04208 | Office Practice and Records Management | 10 |
| 4. | BAT 04210 | Small Business Management | 14 |
| Fundamental Modules | | | |
| 5. | BAT 04209 | Introduction to Computer Applications | 12 |
| Total Credits | | | 60 |

(c) Award

Upon successful completion of the programme, is candidate who wishes to exit is awarded the Basic Technician Certificate in Marketing and Public Relations.

8.5.10.2. Technician Certificate (NTA Level 5) in Marketing and Public Relations

(a) Purpose of the Qualification

This qualification is intended for a person who will perform routine and non-routine Marketing duties including basic marketing and sales, purchasing, accounting transactions, use computer applications to collect/retrieve process and disseminate information.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | BMT 05103 | Commercial Knowledge | 14 |
| 2. | BMT 05105 | Public Relations and Advertising | 16 |
| Fundamental Modules | | | |
| 3. | BMT 05101 | Communication Skills and Report Writing | 10 |
| 4. | BMT 05102 | Business Mathematics and Statistics | 10 |
| 5. | BMT 05104 | Principles of Accounting and Costing | 10 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | BMT 05208 | Principles of Marketing | 14 |
| 2. | BMT 05210 | Introduction to Principles of Economics | 16 |
| Fundamental Modules | | | |
| 3. | BMT 05206 | Principles of Procurement and Supply | 10 |
| 4. | BMT 05207 | Introduction to Computer Applications | 10 |
| 5. | BMT 05209 | Introduction to Principles of Management | 10 |
| Total Credits | | | 60 |

(c) Award

Upon successfully completion of the programme, is candidate who wishes to exit is awarded the Technician Certificate in Marketing and Public Relations of the National Institute of Transport.

8.5.10.3. Diploma (NTA Level 6) in Marketing and Public Relations

(a) Purpose of the Qualification

This qualification is intended for a person who will perform non routine Marketing duties including assisting in managing small business, perform marketing activities and assist in managing events.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|---------|
| Core Modules | | | |
| 1. | BMT 06103 | Integrated Marketing Communication | 12 |
| 2. | BMT 06104 | Buyer Behaviour and Consumerism | 12 |
| Fundamental Modules | | | |
| 3. | BMT 06101 | Introduction to Business Law and Ethics | 10 |

| | | | |
|----------------------|-----------|--|-----------|
| 4. | BMT 06102 | Principles of Office Practice and Records Management | 10 |
| 5. | BMT 06105 | Business Information Technology | 10 |
| Total Credits | | | 54 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | BMT 06206 | Introduction to Public Relations Campaign | 12 |
| 2. | BMT 06207 | Introduction to Entrepreneurship Development | 12 |
| 3. | BMT 06208 | Sales Management | 12 |
| 4. | BMT 06209 | Introduction to Customer Relations Management | 12 |
| 5. | BMT 06210 | Introduction to Events Management | 14 |
| Total Credits | | | 62 |

(c) Award

On successful completion of the programme a candidate is awarded the Diploma in Accounting and Transport Finance of the National Institute of Transport.

8.5.11. Academic Staff

Head of Department

CPSP Dr. Deus Shatta

PhD. in Procurement – (OUT), MBA in Transport and Logistics Management – (OUT), MSc. PSCM - (MU), CPSP (PSPTB), PGDE - (UOA), PGDSC - (UDSM), ADTM, DAE, - (NIT), International Certificate in Humanitarian Logistics - (Kuhne - Stiftung, Switzerland).

Examination Coordinators

Mr. Daudi Kitomo

MBA Finance – (Daystar University- Kenya), Bachelor of Commerce in Accounting – (Daystar University- Kenya).

Mr. Mamboleo Seif

MBA Finance – (Cardiff Metropo Litan University London), Post Graduate Program in Finance – (Bangalore Management Academy), Bachelor's of Business Management – (Bangalore Management Academy).

Lecturers

Dr. Haidari P. Misafi

PhD HRM – (Ghent University), MBA HRM – (MU), B.A. Public Administration – (UDSM).

CPSP Dr. Deus N Shatta

PhD. in Procurement – (OUT), MSc. PSCM (MU), CPSP (PSPTB), MBA. Transport and Logistics Management – (OUT), PGDE (UOA), PGDSC -(UDSM), ADTM, DAE, -(NIT) ,International Certificate in Humanitarian Logistics - (Kuhne - Stiftung, Switzerland).

Mr. Bahati K. Mabina

MSc. PSCM – (MU), CPSP – (PSPTB), BBA – (UDSM), Dip in Education – (Dar es Salaam T.T.C), International Certificate in

| | |
|----------------------------|--|
| | Humanitarian Logistics, Kuehne - Foundation – (Switzerland). |
| *Mr. Chacha Ryoba | Master of International Trade – (UDSM), CPA (T) – (NBAA). B. Com Accounting – (UDSM), International Certificate in Humanitarian Logistics, (Kuehne - Stiftung Foundation). |
| *Ms. Maureen S. Kabugimila | Masters of Commerce- (Madras University – India) B. Com with Computer Application (Madurai Kamaraj University – India). |
| Dr. Francis Muya | PhD in Marketing – (MU), MSc. - MIT (UDSM.), BBA - Marketing - (MU). |
| *Ms. Beatrice George | MSc. HRM – (MU), BA Political Science Pub. Admn. – (UDSM). |
| Mr. William Mboma | MBA – (TEKU), Bachelor of Adult Education and Community Development - (IAE). |
| Mr. Daudi Kitomo | MBA Finance – (Daystar University- Kenya), Bachelor of Commerce in Accounting – (Daystar University- Kenya). |
| Mr. Cornelio Swai | MSc Accounting – (SJUT), BAF - (SJUT). |
| Assistant Lectures | |
| *Mr. Daud Katopola | MSc. HRM – (MU), BHRM – (ISW). |
| *Mr. Jordson Mwesigwa | MSc. A & F – (MU), BBA – (OUT), Dip in Education – (Dar Es Salaam T.T.C). |
| Mr. Mamboleo Seif | MBA Finance – (Cardiff Metropo Litan University London), Post Graduate Program in Finance – (Bangalore Management Academy), Bachelor’s of Business Management – (Bangalore Management Academy). |
| *Mr. Lonjino Edward | MSc. Economics – (OUT), B.A Education - Economics & Geography – (UDSM), Dip in Education – (Monduli T.T.C). |
| Mr. Arnold Binagwa | Master in Entrepreneurship and Enterprise Development – (UDSM), Bachelor’s of Commerce in Human Resource Management – (UDOM). |
| Ms. Adela F. Kimario | MBA – (UDOM), BA Ed – (UDSM). |
| Ms. Doreen Ngaiza | MBA Corporate Management – (MU), BBA-Marketing (TUDARCo) |
| Ms. Londaga Ipyana | MBA HRM – (St John University), Bachelor’s of Arts in Cultural Anthropology and Tourism – (TUDARCo) |
| Ms. Nyangi L. Masanja | MBA – (UDOM), Bachelor’s of Arts in Cultural Anthropology and Tourism – (TUDARCo) |
| *Mr. Faustine Masunga | MBA CM – (MU), ADA – (TIA), IATA – (Beijing China), Certificate in Customer care and Leadership – (Kampala Uganda) |
| *Mr. Yoeni S. Kaniki | MA – Economics – (UDSM), B.A. Education – (UDSM) |
| Mr. Jafari Ruge | Masters of International Business - (UDSM), B. Ed in Commerce - (UDOM) |
| Mr. Francis Moses | MBA Marketing – (St. Augustine University), Bachelor of Public Relation and Marketing - (St. Augustine University) |

| | |
|----------------------------|---|
| *Mr. Godfrey M. Mwema | MA in Policy Science HRM- (Ritsumeikan University, Japan, BA in Political Science and Public Administration (PSPA) – (UDSM) |
| Ms. Emilia Mkosamali | MBA – (Tumaini University), BHRM – (Tumaini University) |
| *Mr. Norbert Musa | MSc in Procurement and Supply - (MU), Advanced Diploma in Procurement and Supply Chain – (TIAA) |
| Mr. Zakeyo O. Lusohoka | MA Mass Communication – (St. Augustine University), BA Mass Communication – (Tumaini University) |
| Mr. Bundala Kate | MSc. MKT- (MU), BA- Public Relation and Marketing – (SAUT). |
| Mr. Romanus Mapunda | Master of International Business - (UDSM), BBA - (UDOM), Cert. in East African Customs Clearing and freight Forwarding Practicing – (Institute of Tax Administration). |
| Mr. Julius Rugemalira | MBA Finance – (UDSM), B.Com Finance (UDSM), MA – Project Planning & Management –(UDSM), Foundation Dip in Computer Studies - (IMIS-UK), Cert. in Risk Management, Investment Analysis & Project Appraisal – (Swakuomund – Namibia), Cert. in Investment Analysis, Appraisal & Strategic Planning – (IMDC – Swaziland), Cert. in Securities Analysis, Dealership, Brokerage, Financial & Investment Advisory Services – (SITI - Canada), Cert. in Governance, Ethics & Anticorruption – (ESAMI- Arusha), Cert. in Corporate Governance & Financial Analysis – (MTCTCL – Consulting – DSM). |
| Senior Tutor | |
| Ms. Mwanaisha A. Mhalule | MSc. A & F- (MU), BAF- (MU). |
| Ms. Violet Nyambe | MSc. HRM -(MU), B-HRM - (ISW). |
| Tutors | |
| *Mr. Method Msombe | MDE – (IRDP Dodoma), BA - Education Economics and Geography – (UDSM). |
| Mr. Joseph Nyalomba | MFA-OG – (UDSM), BA Economics – (UDSM). |
| *Ms. Suzana Mulimila | Master of Arts in Project Management and Evaluation – (SUA), Bachelor’s Degree in HRM - (MU). |
| Mr. Ambali F. Kitalima | Bachelor’s Degree in HRM - (MU). |
| Mr. Issaya Harhombo | BA Economics – (UDOM). |
| *Ms. Janeth Mganilwa | BA Economics and Finance – (IAA). |
| Mr. Eliud S. Majami | BPA RAM – (MU). |
| Tutorial Assistants | |
| Mr. Abdallah Sadiki | Bachelor of Commerce in Accounting – (UDOM), CPA (T). |
| Ms. Adelina Karugaba | BBA Ed. – (OUT) |
| Ms. Tukusuma U. Tenende | BBA Procurement and Logistics Management – (MU) |

| | |
|------------------------|---|
| Mr. Benjamin Mwakyeja | Bachelor's Degree in Procurement and Logistics Management – (TIA) |
| Mr. Juma Manday | BA Public Relations and Advertising – (UDSM) |
| Ms. Jenipha Marandu | MSc Information Science – (MOI), BA Political Science and Public Administration – (UDSM). |
| Mr. Seleman H. Mzungu | BHRM – (NIT). |
| *On Study leave | |

8.6. DIRECTORATE OF RESEARCH, PUBLICATIONS AND POSTGRADUATE STUDIES

8.6.1. Postgraduate Diploma in Logistics and Transport Management

(a) Programme Objectives

The Postgraduate Diploma programme in Logistics and Transport Management aims at:

- (i) Developing the students' ability to independently assess, integrate and Use knowledge in the logistics and transport field,
- (ii) Developing students with knowledge-based approach to handle complex phenomena, problems and situations,
- (iii) Developing the students' opportunities for both a career in the logistics and transport field, which calls for independent thinking, and for R & D work.

(b) Modules Summary

QUARTER ONE

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|---|---------------|
| 1. | PTE 101 | Fundamentals of Transport Economics | 30 |
| 2. | PLT 102 | Management Concepts and Organizational Behavior | 30 |
| 3. | PLT 103 | Business statistics | 30 |
| 4. | PLT 104 | Information and Communication Technology | 30 |
| Total contact hours | | | 120 |

QUARTER TWO

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|-------------------------------|---------------|
| 1. | PLT 201 | Marketing Management | 30 |
| 2. | PLT 202 | Projects and Finance | 30 |
| 3. | PLT 203 | International Law of Carriage | 30 |
| 4. | PLT 204 | Research Methodology | 30 |
| Total contact hours | | | 120 |

QUARTER THREE

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|-------------------------------|---------------|
| 1. | PPT 301 | Procurement Management | 30 |
| 2. | PPT 302 | Warehousing Management | 30 |
| 3. | PLT 303 | Transport Planning and Policy | 30 |
| 4. | PLT 304 | Public Transport Management | 30 |
| Total contact hours | | | 120 |

QUARTER FOUR

| S/No | Module Code | Module Name | Contact Hours |
|--------------|-------------|--|---------------|
| 1. | PLT 401 | Project/Research | 120 |
| | | Project/ /Research areas: (i) Humanitarian Logistics (ii) Reverse Logistics (iii) Green Logistics | |
| Total | | | 120 |

(c) Award

On successful completion of the programme, candidates are awarded the Postgraduate Diploma in Logistics and Transport Management of the National Institute of Transport.

8.6.2. Post Graduate Diploma in Transport Economics

(a) Programme Objectives

The Postgraduate Diploma programme in Transport Economics aims at:

- (i) Developing the students' ability to independently assess, integrate and use knowledge in the transport economics fields,
- (ii) Developing students with knowledge based approach to handle complex phenomena, problems and situations,
- (iii) Developing the students' opportunities for both a career in transport and economics fields, which call for independent thinking, and for R & D work.

(b) Modules Summary

QUARTER ONE

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|---|---------------|
| 1. | PTE 101 | Fundamentals of Transport Economics | 30 |
| 2. | PLT 102 | Management Concepts and Organizational Behavior | 30 |
| 3. | PLT 103 | Business Statistics | 30 |
| 4. | PLT 104 | Information and Communication Technology | 30 |
| Total contact hours | | | 120 |

QUARTER TWO

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|--|---------------|
| 1. | PLT 201 | Marketing Management | 30 |
| 2. | PLT 202 | Projects and Finance | 30 |
| 3. | PLT 203 | International Law of Carriage | 30 |
| 4. | PLT 204 | Research Methodology/Project write-up guidelines | 30 |
| Total contact hours | | | 120 |

QUARTER THREE

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|-----------------------------------|---------------|
| 1. | PTE 301 | Principles of Transport Economics | 30 |
| 2. | PTE 302 | Transport Econometrics | 30 |
| 3. | PTE 303 | Principles of Transport Modeling | 30 |
| 4. | PTE 304 | Economics of Transport Appraisal | 30 |
| Total contact hours | | | 120 |

QUARTER FOUR

| S/No | Module Code | Module Name | Contact Hours |
|--------------|-------------|---|---------------|
| 1. | PLT 401 | Project/Research | 120 |
| | | Project/Research areas: (i) Welfare Economics and Cost-Benefit Analysis (ii) Economics of Transport Regulation (iii) Public Transport Projects (iv) Transport in Development | |
| Total | | | 120 |

(c) Award

On successful completion of the programme, candidates are awarded the Postgraduate Diploma in Transport Economics of the National Institute of Transport.

8.6.3. Postgraduate Diploma in Shipping and Port Management

(a) Programme Objectives

The objective of the programme is to provide relevant qualifications to meet the needs of individuals who wish to follow a career in Shipping and Port Management. The programme aims at developing effective professionals in Shipping and Port Management.

Students with this qualification will be able to enter or shift their careers in Shipping Companies, Shipping Agencies, Ports, Consultancy activities and other related careers. The market demand for this course is high and the programme has been framed to meet the market expectations.

(b) Modules Summary

QUARTER ONE

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|---|---------------|
| 1. | PTE 101 | Fundamentals of Transport Economics | 30 |
| 2. | PLT 102 | Management Concepts and Organizational Behavior | 30 |
| 3. | PLT 103 | Business Statistics | 30 |
| 4. | PLT 104 | Information and Communication Technology | 30 |
| Total contact hours | | | 120 |

QUARTER TWO

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|--|---------------|
| 1. | PLT 201 | Marketing Management | 30 |
| 2. | PLT 202 | Projects and Finance | 30 |
| 3. | PLT 203 | International Law of Carriage | 30 |
| 4. | PLT 204 | Research Methodology/Project write-up guidelines | 30 |
| Total contact hours | | | 120 |

QUARTER THREE

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|-----------------------------------|---------------|
| 1. | PSP 301 | Shipping Management | 30 |
| 2. | PSP 302 | Marine Insurance | 30 |
| 3. | PSP 303 | Management of Ports and Terminals | 30 |
| 4. | PSP 304 | Marine Operation and Conservancy | 30 |
| Total contact hours | | | 120 |

QUARTER FOUR

| S/No | Module Code | Module Name | Contact Hours |
|--------------|-------------|---|---------------|
| 1. | PSP 401 | Project/Research | 120 |
| | | Project/Research areas: (i) Port Operations Management (ii) Maritime Commercial and Shipping Law | |
| Total | | | 120 |

(c) Award

On successful completion of the programme, a candidate is awarded the Postgraduate Diploma in Shipping and Port Management of the National Institute of Transport.

8.6.4. Postgraduate Diploma in Logistics and Procurement Management

(a) Programme Objectives

The overall objective of the proposed programme is to establish at the local level a sustainable, effective and cost efficient capacity to produce Logistics Management professionals in numbers and quality big enough to satisfy the sector demands.

Students with this qualification will be able to enter or shift their careers in Logistics and Procurement Companies, Agencies, Consultancy activities and other related careers. The market demand for this course is high and the programme has been framed to meet the market expectations.

(b) Modules Summary

QUARTER ONE

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|---|---------------|
| 1. | PPL 101 | Public Procurement | 30 |
| 2. | PLT 102 | Management Concepts and Organizational Behavior | 30 |
| 3. | PLT 103 | Business statistics | 30 |
| 4. | PLT 104 | Information and Communication Technology | 30 |
| Total contact hours | | | 120 |

QUARTER TWO

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|--|---------------|
| 1. | PPL 201 | Negotiation and contract preparation | 30 |
| 2. | PLT 202 | Projects and Finance | 30 |
| 3. | PPL 203 | Managing International Logistics | 30 |
| 4. | PLT 204 | Research Methodology/Project write-up guidelines | 30 |
| Total contact hours | | | 120 |

QUARTER THREE

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|-------------------------|---------------|
| 1. | PPT 301 | Procurement Management | 30 |
| 2. | PPT 302 | Warehousing Management | 30 |
| 3. | PPL 303 | Environment Procurement | 30 |
| 4. | PPL 304 | E – Procurement | 30 |
| Total contact hours | | | 120 |

QUARTER FOUR

| S/No | Module Code | Module Name | Contact Hours |
|--------------|-------------|--|---------------|
| 1. | PLT 401 | Project/Research | 120 |
| | | Project/ /Research areas: Humanitarian Logistics | |
| Total | | | 120 |

(c) Award

On successfully completion of the programme, a candidate is awarded the Postgraduate Diploma in Logistics and Procurement Management of the National Institute of Transport.

8.6.5. Postgraduate Diploma in Transport and Tourism Management

(a) Programme Objectives

The proposed programme is envisaged to provide relevant qualification to meet the needs of individuals who wish to follow a career in Transport and Tourism Management. The course is framed on research-based skills and practical fundamentals to develop effective professionals in Transport and Tourism Management. Students with this qualification can enter directly into tourism industry. The market demand for this course is high and the course is framed to meet the market expectations.

(b) Modules Summary

QUARTER ONE

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|---|---------------|
| 1. | PTE 101 | Fundamentals of Transport Economics | 30 |
| 2. | PLT 102 | Management Concepts and Organizational Behavior | 30 |
| 3. | PLT 103 | Business statistics | 30 |
| 4. | PLT 104 | Information and Communication Technology | 30 |
| Total contact hours | | | 120 |

QUARTER TWO

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|--|---------------|
| 1. | PLT 201 | Marketing Management | 30 |
| 2. | PLT 202 | Project and Finance | 30 |
| 3. | PLT 203 | International Law of Carriage | 30 |
| 4. | PLT 204 | Research Methodology/Project write-up guidelines | 30 |
| Total contact hours | | | 120 |

QUARTER THREE

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|--|---------------|
| 1. | PTT 301 | Geography and International Tourism Management | 30 |
| 2. | PTT 302 | Contemporary Issues in Tourism | 30 |
| 3. | PTT 303 | Sustainable Tourism Management | 30 |
| 4. | PTT 304 | Soft Skills Laboratory | 30 |
| Total contact hours | | | 120 |

QUARTER FOUR

| S/No | Module Code | Module Name | Contact Hours |
|--------------|-------------|--|---------------|
| 1. | PTT 401 | Project/Research | 120 |
| | | Project/ /Research areas: (i) Tourism Concepts and Impact (ii) Tourism Products (iii) Travel Agency Management (iv) Tour guiding & Operations (v) Tourism Concepts and Impact (vi) Dangerous & Live Animal Regulations (vii) Basic Air Fare & Calculation (viii) Basic Cargo, Rating and Handling (ix) Export Import Policy & Documentation (x) Hospitality Management (xi) Event Organization and Management (xii) Tourism Business Development (xiii) Tourism Supply Chain | |
| Total | | | 120 |

(c) Award

On successful completion of the programme, candidates are awarded the Postgraduate Diploma in Transport and Tourism Management of the National Institute of Transport.

8.6.6. Postgraduate Diploma in Air Transport Management

(a) Programme Objective

The overall objective of the proposed program is to establish at the local level a sustainable, effective and cost-efficient capacity to produce Air Transport Management professionals in numbers and quality big enough to satisfy sector demands.

To achieve this objective, the PGDATM programme is strategically designed, and will be operated on the basis of IATA-FIATA, IATA-UFTAA, and ICAO recommended/required syllabi so as to attract recognition and accreditation by TCAA and other Aviation Stakeholders.

(b) Module Summary

QUARTER ONE

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|---|---------------|
| 1. | PTE 101 | Fundamentals of Transport Economics | 30 |
| 2. | PLT 102 | Management Concepts and Organizational Behavior | 30 |
| 3. | PLT 103 | Business statistics | 30 |
| 4. | PLT 104 | Information and Communication Technology | 30 |
| Total contact hours | | | 120 |

QUARTER TWO

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|--|---------------|
| 1. | PLT 201 | Marketing Management | 30 |
| 2. | PLT 202 | Projects and Finance | 30 |
| 3. | PLT 203 | International Law of Carriage | 30 |
| 4. | PLT 204 | Research Methodology/Project write-up guidelines | 30 |
| Total contact hours | | | 120 |

QUARTER THREE

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|---|---------------|
| 1. | PAT 301 | Introduction to Air Transport Industry | 30 |
| 2. | PAT 302 | Airport Operations | 30 |
| 3. | PAT 303 | Civil Aviation Safety and Security Management | 30 |
| 4. | PAT 304 | Passenger Handling Skills and Services | 30 |
| Total contact hours | | | 120 |

QUARTER FOUR

| S/No | Module Code | Module Name | Contact Hours |
|--------------|-------------|---|---------------|
| 1. | PAT 401 | Project/Research | 120 |
| | | Project/Research areas: (i) Handling of Dangerous Goods in Air (ii) Transport Air Cargo Handling Skills Procedures | |
| Total | | | 120 |

(c) Award

On successful completion of the programme, a candidate is awarded the Postgraduate Diploma in Air Transport Management of the National Institute of Transport.

8.6.7. Postgraduate Diploma in Rail Transport Management

(a) Programme Objective

The objective of the programme is to provide relevant qualification to meet the needs of individuals who wish to follow a career in Rail Transport Management. The programme aims at developing effective professionals in Rail Transport Management.

Students with this qualification will be able to enter or shift their careers in Railway Companies, Railway Agencies, Consultancy activities and other related careers. The market demand for this course is high and the programme has been framed to meet the market expectations.

(b) Module Summary

QUARTER ONE

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|---|---------------|
| 1. | PTE 101 | Fundamentals of Transport Economics | 30 |
| 2. | PLT 102 | Management Concepts and Organizational Behavior | 30 |
| 3. | PLT 103 | Business Statistics | 30 |
| 4. | PLT 104 | Information and Communication Technology | 30 |
| Total contact hours | | | 120 |

QUARTER TWO

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|-------------------------------|---------------|
| 1. | PLT 201 | Marketing Management | 30 |
| 2. | PLT 202 | Projects and Finance | 30 |
| 3. | PLT 203 | International Law of Carriage | 30 |
| 4. | PLT 204 | Research Methodology | 30 |
| Total contact hours | | | 120 |

QUARTER THREE

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|----------------------------------|---------------|
| 1. | PRT 301 | Railway Transport Sector | 30 |
| 2. | PRT 302 | Railway Equipment and Facilities | 30 |
| 3. | PRT 303 | Railway Operation | 30 |
| 4. | PRT 304 | Railway Commercial Practice | 30 |
| Total contact hours | | | 120 |

QUARTER FOUR

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|---|---------------|
| 1. | PRT 401 | Project/Research | 120 |
| | | Project/Research areas: (i) Application of Railway Concession to SADC (ii) Railways Principle Issues in Railways Restructuring | |
| Total contact hours | | | 120 |

(c) Award

On successful completion of the programme, a candidate is awarded the Postgraduate Diploma in Rail Transport Management of the National Institute of Transport.

8.6.8. Postgraduate Diploma in Transportation Engineering

(a) Programme Objective

The Postgraduate Diploma programme in Transportation Engineering aims at Developing the students' ability to independently assess, integrate and use knowledge in the developing effective professionals in road, port, airways, pipeline and railways transport.

Developing students with knowledge-based approach to handle complex phenomena, problems and situations.

Developing the students' opportunities for both Transportation Engineering which calls for independent thinking, and for R & D work.

(b) Module Summary

QUARTER ONE

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|--|---------------|
| 1. | PPL 101 | Fundamentals of Transport Economics | 30 |
| 2. | PLT 102 | Environmental Impact in Transportation | 30 |
| 3. | PLT 103 | Business statistics | 30 |
| 4. | PLT 104 | Information and Communication Technology | 30 |
| Total contact hours | | | 120 |

QUARTER TWO

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|--|---------------|
| 1. | PTE 201 | Transport Planning, operating costs and Policy | 30 |
| 2. | PTE 202 | Transportation Safety Engineering | 30 |
| 3. | PTE 203 | Transport Furniture and Station Equipment | 30 |
| 4. | PLT 204 | Research Methodology | 30 |
| Total contact hours | | | 120 |

QUARTER THREE

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|---|---------------|
| 1. | PTE 301 | Road design, construction and maintenance | 24 |
| 2. | PTE 302 | Railway design, construction and maintenance | 24 |
| 3. | PTE 303 | Port design, construction and maintenance | 24 |
| 4. | PTE 304 | Airport design, construction and maintenance | 24 |
| 5. | PTE 305 | Pipeline design, construction and maintenance | 24 |
| Total contact hours | | | 120 |

QUARTER FOUR

| S/No | Module Code | Module Name | Contact Hours |
|--------------|-------------|---|---------------|
| 1. | PTE 401 | Project/Research | 120 |
| | | Project/ /Research areas: (i) Roads Design Project /Research (ii) Railway Design Project /Research (iii) Ports Design Project /Research (iv) Airport Design Project /Research (v) Pipeline Design Project /Research | |
| Total | | | 120 |

(c) **Award**

On successful completion of the programme, a candidate is awarded the Postgraduate Diploma in Transportation Engineering of the National Institute of Transport.

8.6.9. Postgraduate Diploma in Road Safety Management

(a) **Programme Objective**

The objective of the programme is to provide relevant qualification to meet the needs of individuals who wish to follow a career in Road Transport and Traffic Safety Management. OR who intend to pursue further studies in the transport sector. The programme aims at developing effective professionals in Road Transport Safety Management.

(b) **Module Summary**

QUARTER ONE

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|---|---------------|
| 1. | PST 101 | Legislation in Road transport | 30 |
| 2. | PLT 102 | Management Concepts and Organizational Behavior | 30 |
| 3. | PLT 103 | Business Statistics | 30 |
| 4. | PLT 104 | Information and Communication Technology | 30 |
| Total contact hours | | | 120 |

QUARTER TWO

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|--|---------------|
| 1. | PST 201 | Road Transport Operations Management | 30 |
| 2. | PST 202 | Transport Management Information System (TMIS) | 30 |
| 3. | PST 203 | Road Design and Furniture | 30 |
| 4. | PST 204 | Project Management & Research Methodology | 30 |
| Total contact hours | | | 120 |

QUARTER THREE

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|--|---------------|
| 1. | PST 301 | Road Crashes Investigation and Reporting | 30 |
| 2. | PST 302 | Vehicle Maintenance Management | 30 |
| 3. | PST 303 | Road Safety Public Education and Information | 30 |
| 4. | PLT 304 | Public Transport Management | 30 |
| Total contact hours | | | 120 |

QUARTER FOUR

| S/No | Module Code | Module Name | Contact Hours |
|----------------------------|-------------|---|---------------|
| 1. | PST 401 | Project/Research | 120 |
| | | Project/ /Research areas: (i) Freight Safety Project/ Research (ii) Passenger safety Project/ Research | |
| Total contact hours | | | 120 |

(c) Award

On successful completion of the programme, a candidate is awarded the Postgraduate Diploma in Road Safety Management of the National Institute of Transport.

8.6.10 Master of Business Administration in Transport and Logistics in Collaboration with Open University of Tanzania

(a) Educational aims of the Programme

The main educational aim of the MBA programme is to prepare and equip graduates with general training in cross-organizational functions of business and specialized training in career-oriented management professions such as Accountancy, Finance, Marketing, Human Resource Management, Governance and Leadership.

(b) Intended Learning Outcomes

The programme provides opportunities for students to develop and demonstrate knowledge and understanding, skills, qualities and other attributes in the following areas:

(1) Knowledge and Understanding

- (i) Knowledge and understanding of the preparation, analysis, and interpretation of financial statements of various entities and how to apply management accounting knowledge to facilitate decision making process,
- (ii) Knowledge and understanding of the underlying theories and practices of financial management as well as financial markets and institutions focusing on both local and international perspectives,
- (iii) Knowledge and understanding of the tools and theories used in strategic marketing, management of sales force, marketing distribution systems, specific issues in marketing of services and international aspects of marketing,
- (iv) Knowledge and understanding of theories, laws and practices in managing multicultural workforce and organizational behaviour dynamics,
- (v) Knowledge and understanding of the frameworks used in analyzing business environments, theories of enterprise development, job creation and the provision of good governance and leadership,
- (vi) Knowledge and understanding of the business research process, tools and frameworks for analysis and decision making including the use of ICT,
- (vii) Knowledge and understanding of theories, laws and practices in Transport and Logistics management processes, systems and flow of transport and transportation of people, goods and related information in the supply chain.

(2) Intellectual Skills

- (i) Ability to prepare and interpret financial statements and extract relevant information for decision making purposes,
- (ii) Ability to take key financial management decisions, evaluate financial strategies, and manage the interactions between corporations and the financial markets and institutions,
- (iii) Ability to apply relevant tools and theories in marketing to design and implement various marketing strategies, manage distribution systems, sales force and international marketing operations,
- (iv) Ability to apply theories and laws in managing work force and dynamics in organizations,
- (v) Ability to analyze business environments, apply theories of enterprise development, and to practice and influence the adoption of good governance in achieving business success,
- (vi) Ability to apply tools and frameworks of analysis in improving the quality of business decisions and to conduct quality research that contributes to knowledge and business solutions,
- (vii) Ability to apply theories and laws in managing and handling phenomena, problems and situations related to transportation and logistics.

(3) Professional/ Practical Skills

- (i) Competence in designing, implementing and reviewing accounting and internal control systems, managing business risks and financial reporting relationships,
- (ii) Competence in taking investment, financing, dividend and working capital decisions, evaluating financial strategies and in managing the relationship between corporations and the financial markets and institutions,
- (iii) Competence in designing, implementing and evaluating various marketing plans and strategies, managing distribution systems, sales force, and international marketing operations,
- (iv) Competence in designing and implementing theoretically sound and law-compliant systems of managing workforce and dynamics in organizations,
- (v) Competence in identifying and analyzing value enhancing opportunities, developing and implementing business plans and in providing effective leadership.

(c) Core Courses

| S/No | Module Code | Module Name | Credits |
|------|-------------|--|---------|
| 1. | OLG 611 | Strategic Human Resource Management | 1 |
| 2. | OLG 614 | Management Decision Making Processes | 1 |
| 3. | OLG 615 | ICT in Business Management | 1 |
| 4. | OME 611 | Strategic Marketing | 1 |
| 5. | OAF 611 | Financial Management | 1 |
| 6. | OAF 612 | Managerial and Financial Accounting | 1 |
| 7. | OBM 699 | Business Research Methodology/Dissertation | 6 |

| S/No | Module Code | Module Name | Units |
|------|-------------|------------------------------------|-------|
| 1. | OME 626 | Transport and Logistics Management | 1 |
| 2. | OME 627 | Transport Economics and Planning | 1 |
| 3. | OME 628 | Transport Economics and Planning | 1 |

8.6.11. Master's of Science in Logistics and Transport Management

(a) Educational aims of the Programme

The main educational aim of MSC-LTM programme is to develop critical thinking, analytical and problem solving skills, to be applied in complex and changing environments within the Logistics and Transport industry.

(b) Intended Learning Outcomes

The programme provides opportunities for students to develop and demonstrate skills, knowledge, understanding and other attributes in the following areas.

(1) Knowledge and Understanding

- (i) Knowledge and understanding the need for continuous assessment of performance and potential,
- (ii) Knowledge and understanding the relationship between remuneration and quality employees,
- (iii) Knowledge and understanding the full range of legislation governing industrial relations in the country,
- (iv) Knowledge and understanding the employers' responsibility for ensuring health and safety of employees who are affected by his operations,
- (v) Knowledge and understanding the need to install a comprehensive human resource management information system.

(2) Intellectual Skills

- (i) Ability to evaluate the performance and potential of individual employees,
- (ii) Ability to determine impact of remuneration on work employee performance,

- (iii) Ability to review the industrial relations of a country and recommend the necessary measures,
 - (iv) Ability to identify situations of risk at the workplace and propose the necessary preventive measures.
- (3) Professional/Practical Skills**
- (i) Competence in carrying out remuneration survey and design a salary structure,
 - (ii) Competence in equipping with techniques of promoting and maintaining industrial harmony,
 - (iii) Competence in creating and implementing safety and health awareness programmes,
 - (iv) Competence to identify and operate a most suitable human resource management information system for the organization.

(c) Summary of the modules

Credits and contact hours for the Programme

| S/No | Module Code | Module Name | Credits |
|---------------------------------|-------------|--|-----------|
| Year 1 | | | |
| Semester 1 | | | |
| 1. | MLTM 1101 | Accounting and Transport Finance | 9 |
| 2. | MLTM 1102 | Principles of Optimization | 6 |
| 3. | MLTM 1103 | Business Forecasting | 12 |
| 4. | MLTM 1104 | Transport planning theory and practice | 9 |
| 5. | MLTM 1105 | Inventory Control | 12 |
| 6. | MLTM 1106 | Logistics Systems Management | 9 |
| Total Credits | | | 57 |
| Semester 2 | | | |
| 1. | MLTM 1207 | Procurement and Physical Distribution | 9 |
| 2. | MLTM 1208 | Sustainable Transport | 9 |
| 3. | MLTM 1209 | Research Methodology | 12 |
| 4. | MLTM 1210 | Intermodal Transport and International Logistics | 9 |
| Any Two Elective Modules | | | |
| 5. | MLTM 1211 | Road Transport Management | 12 |
| 6. | MLTM 1212 | Railway Transport Management | 12 |
| 7. | MLTM 1213 | Maritime Transport Management | 12 |
| 8. | MLTM 1214 | Air Transport Management | 12 |
| 9. | MLTM 1215 | Logistics Operations Methods and Analysis | 12 |
| 10. | MLTM 1216 | Humanitarian Logistics | 12 |
| Total Credits | | | 63 |
| Year 2 | | | |
| 11. | MLTM 3000 | Dissertation | 60 |
| Grand Total | | | 60 |

L-Lecture

T-Tutorial

IS- Independent Studies

8.6.12. Master of Mechanical Engineering with Transportation Machinery

The program has been designed to train experts in Mechanical Engineering with Transportation Machinery to cater for both current and prospective labour market in the Mechanical Engineering and Transportation sub-sectors. It intends to expose the learners to specific skills demanded by the existing and future jobs markets.

The specific objectives of the programme are:

- (i) To provide students with in-depth understanding of advanced engineering principles and techniques of innovative design of complex machines and mechanical devices.
- (ii) To develop student ability in employing advanced ICT principles, procedures and techniques for manufacturing of various machines and mechanical devices.
- (iii) To provide student with advanced computational engineering principles and techniques in solving engineering problems
- (iv) To develop student ability in applying systems engineering principles and techniques for optimizing gains of engineering and manufacturing industries
- (v) To provide student with advanced engineering principles and skills in design, construction, operation and maintenance of transport machinery and power plants

Summary of Modules in the Semester

The distribution of modules in the semesters of the programme is as indicated in the Tables 1, 2, 3, 4, 5 and 6.

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | MEG 09101 | Material Selection and Failure Analysis | 9 |
| 2. | MEG 09102 | Research and Development for Engineers | 9 |
| 3. | MEG 09103 | Engineering Dynamics and Computational Methods | 9 |
| 4. | MEG 09104 | Electric and Hybrid Vehicle Technologies | 9 |
| 5. | MEG 09105 | Transportation Machinery | 9 |
| 6. | MEG 09106 | Advanced Welding Technology | 12 |
| Elective | | | |
| 7. | MEG 09107 | Advanced Hydraulics and Pneumatics | 9 |
| 8. | MEG 09108 | Advanced Automotive Chassis Engineering | 9 |
| 9. | MEG 09109 | Natural Gas - Powered Vehicle Technologies | 9 |
| Total Credits | | | 84 |

Note: A student must elect one elective module from semester I that make 66 credits; 57 credits from core modules and 9 credits from elective module.

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|-------------------------|-------------|---|-----------|
| Core Modules | | | |
| 10. | MEG 09210 | Advanced Computer Integrated Manufacturing | 9 |
| 11. | MEG 09211 | Advanced Fluid Power and Applications | 9 |
| 12. | MEG 09212 | CAE and Product Development | 9 |
| 13. | MEG 09213 | Research Proposal Development | 9 |
| 14. | MEG 09214 | Project Management and Enterprising | 6 |
| 15. | MEG 09215 | Health, Safety and Environmental Management | 6 |
| Elective Modules | | | |
| 16. | MEG 09216 | Railway Vehicle Engineering | 9 |
| 17. | MEG 09217 | Marine Vehicle Engineering | 9 |
| 18. | MEG 09218 | Aircraft Engineering | 9 |
| 19. | MEG 09219 | Oil and Gas Pipeline Transport Technologies | 9 |
| 20. | MEG 09220 | Solar Energy Technologies | 9 |
| Total Credits | | | 93 |

Note: A student must elect two elective modules from semester II that make 66 credits; 48 credits from core modules and 18 credits from elective modules.

SEMESTER III

| S/No | Module Code | Module Name | Credits |
|---------------------|-------------|--------------|---------|
| Core Modules | | | |
| 21. | MEG 09421 | Dissertation | 50 |

8.6.13. Scheme of Study

The scheme of study is as indicated in Table 4

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | MEG 09101 | Material Selection and Failure Analysis | 9 |
| 2. | MEG 09102 | Research and Development for Engineers | 9 |
| 3. | MEG 09103 | Engineering Dynamics and Computational Methods | 9 |
| 4. | MEG 09104 | Electric and Hybrid Vehicle Technologies | 9 |
| 5. | MEG 09105 | Transportation Machinery | 9 |
| 6. | MEG 09106 | Advanced Welding Technology | 12 |
| 7. | MEG 09107 | Advanced Hydraulics and Pneumatics | 9 |
| 8. | MEG 09108 | Advanced Automotive Chassis Engineering | 9 |
| 9. | MEG 09109 | Natural Gas - Powered Vehicle Technologies | 9 |
| Total Credits | | | 84 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|--------------------------------|-------------|---|-----------|
| Core Modules | | | |
| 10. | MEG 09210 | Advanced Computer Integrated manufacturing | 9 |
| 11. | MEG 09211 | Advanced Fluid Power and Applications | 9 |
| 12. | MEG 09212 | CAE and Product Development | 9 |
| 13. | MEG 09213 | Research Proposal Development | 9 |
| 14. | MEG 09214 | Project Management and Enterprising | 6 |
| 15. | MEG 09215 | Health, Safety and Environmental Management | 6 |
| Elective Modules | | | |
| 16. | MEG 09216 | Railway Vehicle Engineering | 9 |
| 17. | MEG 09217 | Marine Vehicle Engineering | 9 |
| 18. | MEG 09218 | Aircraft Engineering | 9 |
| 19. | MEG 09219 | Oil and Gas Pipeline Transport Technologies | 9 |
| 20. | MEG 09220 | Solar Energy Technologies | 9 |
| Sub Total (Semester II) | | | 93 |
| 21 | MEG 09421 | Dissertation | |

Key: L- Lecture; S- Seminar; P- Practical; AS- Assignment

8.6.15. Directorate of Research, Publications and Postgraduate Studies (RPPS) Directorate

8.6.15.1. Director of Research, Publications and Postgraduate Studies (RPPS) Directorate

Dr. Eva Luwavi – PhD in Education – (UDSM), MA Ed Curriculum - (UDSM), BEd Arts – (DUCE).

Assistant Head

Mr. Salum Mihayo – MSc. in Procurement and Supply Chain Management- (MU), Advanced Diploma in Freight Clearing and Forwarding - (NIT), MCILT - (UK).

8.7. MATHEMATICS, HUMANITIES AND SOCIAL SCIENCES (MHSS) DEPARTMENT

The department is responsible for offering Bachelor Degree in Education with Mathematics and Information Technology to support the effort of the Government to increase number of qualified Mathematics teachers in secondary schools and higher learning institutions. Also, the Department is responsible for managing and teaching general modules, which are taught to different programmes in other departments.

The Modules which are managed by this Department are:

- (i) Mathematics,
- (ii) Development Studies,
- (iii) Communication Skills,
- (iv) Law,
- (v) Statistics and Survey Methods,
- (vi) Research Methodology and,
- (vii) Education.

8.7.1. Bachelor's Degree (NTA Level 7-8) Programme in Education with Mathematics and Information Technology

This degree programme comprises of two levels; the Higher Diploma (NTA Level 7) and Bachelor's degree (NTA Level 8). Higher Diploma has four semesters (equivalent to two academic years) and Bachelor's degree has two semesters (equivalent to one academic year). The NTA Level 7 is an entry qualification to (NTA Level 8).

8.7.1.1. Higher Diploma in Education with Mathematics and Information Technology (NTA Level 7)

(a) Purpose of the qualification

This qualification is intended to persons, who will teach Mathematics and Information Technology subjects in Secondary Schools at an Ordinary level, A level and training Colleges at Certificate level with ability to demonstrate acumen in a broad range of complex educational issues in the area of the holder's specialization.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | EDU 07101 | Principles of Education | 9 |
| 2. | EDU 07102 | Education Psychology | 9 |
| 3. | MTU 07101 | Fundamentals of Mathematical Analysis | 12 |
| 4. | MTU 07102 | Introduction to Linear Algebra | 9 |
| 5. | MTU 07103 | Introduction to Statistics | 9 |
| 6. | ITU 07102M | Introduction to Microcomputers and Applications | 9 |
| 7. | ITU 07101M | Fundamentals of Computer Programming | 9 |
| 8. | GSU 07101M | Communication Skills | 9 |
| 9. | ITU 07103M | Basics in Digital Circuitry[E] | 9 |
| Total Credits | | | 84 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|------------------------------------|-----------|
| Core Modules | | | |
| 1. | EDU 07203 | Education Media and Technology | 9 |
| 2. | EDU 07204 | Teaching Practice I | 12 |
| 3. | EDU 07205 | Mathematics and IT Methods | 6 |
| 4. | MTU 07204 | Functions of a Single Variable | 12 |
| 5. | MTU 07205 | Introduction to Numerical Analysis | 9 |
| 6. | ITU 07205M | Fundamentals of Computer Networks | 9 |
| 7. | ITU 07204 | Computer Architecture | 9 |
| 8. | GSU 07201M | Development Studies | 6 |
| Total Credits | | | 72 |

SEMESTER III

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | EDU 07306 | Curriculum Development and Teaching | 9 |
| 2. | EDU 07307 | Educational Research | 9 |
| 3. | MTU 07307 | Functions of Several Variables | 12 |
| 4. | MTU 07308 | Mathematical Statistics | 9 |
| 5. | ITU 07306M | Database Concepts | 9 |
| 6. | ITU 07307M | Introduction to Computer Graphics and Image Processing | 9 |
| 7. | EDU 07309 | School Governance | 9 |
| 8. | MTU 07306 | Linear Programming | 6 |
| Total Credits | | | 72 |

SEMESTER IV

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | EDU 07408 | Guidance and Counseling | 9 |
| 2. | EDU 07409 | Teaching Practice II | 12 |
| 3. | EDU 07412 | Educational Ethics and Professionalism | 9 |
| 4. | MTU 07408 | Ordinary Differential Equations | 12 |
| 5. | ITU 07308M | Database Technologies | 12 |
| 6. | ITU 07409M | Internet Programming | 9 |
| 7. | ITU 07410M | Information Storage and Retrieval | 9 |
| 8. | ITU 07411M | Research Methods in Computing and Information Management | 6 |
| Total Credits | | | 78 |

(c) Award

On successful completion of the programme, a candidate who wishes to exit is awarded the Higher Diploma of Education in Mathematics and Information Technology of the National Institute of Transport.

8.7.1.2. Bachelor's degree of Education with Mathematics and Information Technology (NTA Level 8)

(a) Purpose of the Qualification

This qualification is intended to persons, who will teach Mathematics and Information Technology subjects in Secondary Schools at all levels. The holder can also teach in the Teachers' Training Colleges at Diploma level, and may become a Tutorial Assistant in a Higher Learning Institution with the ability to demonstrate acumen in a broad range of complex educational issues in the area of the holder's specialization.

(b) Summary of Modules**SEMESTER I**

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | EDU08101 | Psychology of Exceptionalities | 9 |
| 2. | EDU08102 | Management of education and School Administration | 9 |
| 3. | MTU08101 | Complex Analysis | 12 |
| 4. | MTU08102 | Abstract Algebra | 9 |
| 5. | ITU 08101M | Information Systems Analysis and Design | 9 |
| 6. | ITU 08102 | Network Design and Administration | 12 |
| 7. | MTU08103 | Numerical Analysis [E] | 9 |
| Total Credits | | | 69 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|--------------------------------------|-----------|
| Core Modules | | | |
| 1. | EDU 08203 | Sociology of Education | 9 |
| 2. | EDU 08204 | Education Measurement and Evaluation | 9 |
| 3. | MTU 08204 | Functional Analysis | 12 |
| 4. | MTU 08205 | Operational Research | 9 |
| 5. | ITU08203M | Object Oriented Programming | 9 |
| 6. | ITU08204M | Information System Security | 12 |
| 7. | MTU08205 | Partial Differential Equations[E] | 9 |
| Total Credits | | | 69 |

(c) Award

On successful completion of the programme, a candidate is awarded the Bachelor's of Education with Mathematics and Information Technology of the National Institute of Transport.

8.7.2. Academic Staff**Head of Department**

Dr. Laurencia N. Massawe

PhD Mathematical Modelling – (OUT), MSc. Mathematical Modelling - (UDSM), BSc. Ed Double Mathematics – (OUT), Dip. Ed (Monduli T.T.C).

Examination Coordinators

Mr. Aristides Angelo

M.A. Education– (UDSM), B. Ed Linguistics – (UDSM), Cert. in Education – (Katoke T.T.C)

Mr. Ambakisye Mwasunga

MA Education – (UDSM), BEd in Mathematics – (TUICo), Dip. Ed – (Dar es Salaam TTC).

Senior Lecturer

Dr. Zainabu M. Mshana

PhD Development Studies – (UDOM), MA Development Studies – (UDSM), BSc. Agriculture General – (SUA).

Lecturers

| | |
|----------------------------|--|
| *Ms. Jane Joseph | M.A. – (UDSM), B.A. Ed. – (UDSM). |
| Dr. Hans Luambano | PhD Development Studies – (UDSM), M.A. – (UDSM), B.A. Sociology – (UDSM), Advanced in Logistics – (Dresden International University – Germany). |
| Dr. Eva O Luwavi | PhD in Education – (UDSM), MAED Curriculum – (UDSM), BA. Ed – (DUCE). |
| Dr. Salamida D. Ngulyati | PhD in Mathematics and Computer Science Engineering –(NM-AIST), MSc. Mathematical Modeling–(UDSM), BEd in Mathematics– (TUICo), Dip Ed – (Dar es Salaam T.T.C) |
| Dr. Mary Mashoke | PhD in Social Studies – (OUT), M.A Develop Studies – (UDSM), B.A. Ed. – (UDSM), Dip. Ed. (Kigurunyembe T.T.C), Advanced Cert. in Logistics – (Dresden Int. Univ-Germany) |
| *Mr. Clashon Onesmo | M.A Natural Resource Management – (UDOM), B.A. Archeology and History– (UDSM). |
| *Mr. Swaib S. Yarro | M.A. Psychology– (UDSM), PGD HRM – (IFM), B.A Ed. – (UDSM), |
| *Mr. Emmanuel M. Kishombo | M.A. Education Management and Administration – (UDSM), B.A. Ed. – (DUCE) |
| Ms. Honesta Msaki | M.A. Education– (UDSM), B. Ed Arts – (UDSM). |
| Assistant Lecturers | |
| *Ms Kissa Kilagane | MBA – (UDSM), Bsc. Ed. – (UDSM), Dip.Education – (Kleruu T.T.C.). |
| *Mr. Bakari I. Pandu | M.A. Development Management– (UDSM), B.A. Ed. – (UDSM). |
| *Mr. Gibson Mahenge | M.A. Development Studies–(UDSM), B.A. Ed–(UDSM) |
| Ms. Kagemulo D. Muhaya | MSc. Mathematical Modeling– (UDSM), BEd in Mathematics – (TUICo), Dip. Ed. – (Morogoro T.T.C) |
| Ms. Doroth Manoja | MSc. Mathematical Modelling– (UDSM), BEd in Mathematics– (TUICo), Dip. Ed. – (Dar es Salaam T.T.C) |
| Ms. Sarah W. Mwakyusa | MSc. HRM– (MU), B.A. Ed – (UDSM), Dip. Ed. – (Morogoro T.T.C) |
| Mr. Mathias P. Malegesi | MSc. HRM – (MU), PGD HRM– (IFM), B.A. Ed. – (UDSM) |
| *Mr. John M. Buzza | M.A. Education – (UDSM), BEd in Mathematics – (TUICo), Dip. Ed. – (Monduli T.T.C) |
| *Ms. Janeth M. Mtabazi | MSc. Mathematical Modelling– (UDSM), BSc. Ed. Mathematics & Physics - (UDSM), Dip. Ed. – (Dar es Salaam T.T.C) |
| Mr. Justine W. Kira | MSc. Mathematical Modelling – (UDSM), BSc. Ed. Mathematics and Physics – (UDSM) |
| *Mr. Patroba E. Mgonya | M.A. Education Management and Planning– (SAUT), B.A Ed. – (UDOM), Dip. Ed–. (Butimba T.T.C). |
| *Ms. Getruda M. Challe | M.A. Education – (UDSM), BEd Arts – (UDSM) |

| | |
|--------------------------|---|
| Mr. Adenias S. Ishabisa | MA Applied Social Psychology - (UDSM), Bed Psychology – (UDSM) |
| Mr. Paul A. Panga | MSc Mathematical Modeling - (UDSM), BSc Education - (UDSM) |
| Mr. Kristofa Mwangeni | M.A. Linguistics - (UDOM), B. Ed Language – (TEKU), Dip. Ed – (Morogoro TTC) |
| Ms. Regina V. Mkama | MA Education – (UDSM), BEd Psychology – (UDSM) |
| Mr. Ernest Mapunda | MA Linguistics – (UDOM), BEd in English and IT (Mount Meru University) |
| Mr. Fredrick E. Mwesigwa | LLM - (UDSM), Bachelor of Law (RUICO), PGD in Legal Practice (LST), Dip in Law (Institute of Judicial Administration) - Lushoto |
| Mr. Justine J. Mwaliko | MLLB – (UDSM), LLB – (MU), PGDLP –LTS, Dip in Law – (IJA), Cert. in Law – (UDSM) |
| Mr. Edison Sanga | MA Linguistic (UDOM), B. Ed in English and History (UDSM) |

Principal Tutor

| | |
|-------------------------|--|
| Dr. Laurencia N Massawe | PhD Mathematical Modelling – (OUT), MSc. Mathematical Modelling - (UDSM), BSc. Ed Double Mathematics – (OUT), Dip. Ed- (Monduli T.T.C) |
|-------------------------|--|

Senior Tutors

| | |
|-------------------------|--|
| Mr. Aristides M. Angelo | M.A. Education– (UDSM), B. Ed Linguistics – (UDSM), Cert. in Education– (Katoke T.T.C) |
| *Ms. Olipa Mahenge | LLM– (UDSM), LLB – (UDSM). |
| Mr. Ambakisye Mwasunga | MA Education– (UDSM), BEd in Mathematics – (TUICo), Dip. Ed – (Dar es Salaam TTC). |
| Mr. Daniel Haule | MA Education in Administration, Planning and Policy Studies – (OUT), BA Education – (UDSM) |

Tutorial Assistants

| | |
|--------------------------|--|
| *Mr. Aggrey M. Senzighe | B.A.Ed. Language and Management – (MU) Dip. Education – (Korogwe T.T.C). |
| *Mr. Diocles Kyobya | B.A. Education (St. Augustine University of Tanzania) |
| *Mr. John Gweba | BSc. Mathematics (DUCE), Dip. Education (Korogwe Teacher’s Collage). |
| *Mr. Fabian I. Kisuka | LLB (MU), PGDLP (Law School of Tanzania, Dip. Law (IJA Lushoto), Teaching License – (Bunda TTC). |
| Mr. Daniel D. Mwakalonge | MSc. in Statistics – (UDOM), BEd in Mathematics – (TUICo), Dip. In Education– (Kleruu T.T.C) |
| *Ms. Jamila S. Mkomo | BEd. Mathematics and Economics – (MU), Dip. Education – (Korogwe TTC) |
| *Mr. Thomas J. Machumu | BEd in Mathematics – (TUICo), Teaching Licence – (Dar es Salaam T.T.C) |

Tutors

| | |
|-------------------------|---|
| *Mr. Yusuph L. Reuben | BEMIT - (NIT) |
| *Mr. Pita D. Mwaitolage | BSc. with Education (Informatics and Mathematics)-(SUA) |

*** On Study Leave**

8.8. SCHOOL OF AVIATION TECHNOLOGY

The School of Aviation Technology is responsible for planning, organizing and conducting aviation related programmes. The School of Aviation Technology has endeavoured to develop its performance and ensure excellence in training, scientific research and consultancy services in the field of aviation. It creates an intellectual forum for various disciplines of aeronautical engineering, aircraft engineering, aircraft maintenance engineering, piloting, flight operations, airport operations, ground handling, air transport management, travel and tourism, and cabin crew services.

Currently, the School of Aviation Technology has two departments namely;

- (a) Flying and Operations Management which offers Cabin Crew Initial and Recurrent courses, Global Distribution System Fares and Ticketing (Amedeus), Airport Operations, Fundamentals, Airline Marketing and Airline Customer Service; and
- (b) Aeronautical Engineering which offers programmes in Aircraft Maintenance Engineering from (NTA Level 4-8).

8.8.1. Bachelor's Degree (NTA Level 7-8) in Aircraft Maintenance Engineering

The programme comprises two levels – Higher Diploma (NTA Level 7) and Bachelor's Degree (NTA Level 8). Higher Diploma has 6 Semesters (equivalent to 3 years) and Bachelor's Degree has 2 Semesters (equivalent to 1 year). Therefore, (NTA Level 7) is an entry qualification to (NTA Level 8).

8.8.1.1. Higher Diploma (NTA Level 7) in Aircraft Maintenance Engineering

(a) Purpose of the Qualification

This qualification is intended to persons, who will conduct a variety of aircraft engineering activities including design of aircraft, components, tools, maintenance equipment as well as organizing and directing the maintenance of the same in collaboration with other specialists in compliance with the technological changes.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-----------------------------------|-----------|
| Core Modules | | | |
| 1. | AMU 07101 | Physics | 9 |
| 2. | AMU 07102 | Chemistry | 6 |
| 3. | AMU 07103 | Electrical Fundamentals | 9 |
| 4. | AMU 07104 | Electronic Fundamentals | 9 |
| 5. | AMU 07105 | Manual Aircraft Technical Drawing | 9 |
| 6. | AMU 07106 | Aircraft Shop Theory and Practice | 9 |
| Fundamental Modules | | | |
| 7. | GSU 07101 | Technical Communication Skills | 6 |
| 8. | GSU 07102 | Linear Algebra | 9 |
| Total Credits | | | 66 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | AMU 07201 | Human Factors | 6 |
| 2. | AMU 07202 | Digital Techniques | 9 |
| 3. | AMU 07203 | Aerodynamics | 9 |
| 4. | AMU 07204 | Basic Aircraft Internal Combustion Engines | 9 |
| 5. | AMU 07205 | Aircraft Engineering Materials | 6 |
| 6. | AMU 07206 | Aircraft Shop Maintenance and Practice | 9 |
| Fundamental Modules | | | |
| 7. | GSU 07201 | Integral Calculus and Complex Variables | 9 |
| 8. | GSU 07202 | Development Perspectives | 6 |
| Total Credits | | | 63 |

SEMESTER III

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|-------------------------------------|-----------|
| Core Modules | | | |
| 1. | AMU 07301 | Engineering Thermodynamics | 9 |
| 2. | AMU 07302 | Basic Fluid Mechanics | 6 |
| 3. | AMU 07303 | Aircraft Piston Engine Construction | 12 |
| 4. | AMU 07304 | Strength of Material | 9 |
| 5. | AMU 07305 | Computer Aided Drafting | 9 |
| 6. | AMU 07306 | Industrial Practical Training I | 12 |
| Fundamental Modules | | | |
| 7. | GSU 07301 | Differential Equations | 9 |
| Total Credits | | | 66 |

SEMESTER IV

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | AMU 07401 | Aircraft Gas Turbine Engines | 9 |
| 2. | AMU 07402 | Aircraft Structures | 9 |
| 3. | AMU 07403 | Electric Machines | 9 |
| 4. | AMU 07404 | Aircraft Instruments and Integrated Systems | 9 |
| 5. | AMU 07405 | Basic Aerospace Engineering and Aero-thermo propulsion | 9 |
| 6. | AMU 07406 | Applied Mechanics | 9 |
| Fundamental Modules | | | |
| 7. | GSU 07401 | Probability and Statistics | 9 |
| Total Credits | | | 63 |

SEMESTER V

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | AMU 07501 | Aircraft Piston Engine Maintenance | 9 |
| 2. | AMU 07502 | Aircraft Landing Gear and Brakes | 9 |
| 3. | AMU 07503 | Propellers | 12 |
| 4. | AMU 07504 | Composite Materials | 6 |
| 5. | AMU 07505 | Aircraft Communication, Radio and Navigation System | 9 |
| 6. | AMU 07506 | Aircraft Element and Design | 6 |
| 7. | AMU 07507 | Industrial Practical Training II | 12 |
| Total Credits | | | 63 |

SEMESTER VI

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|--------------------------------|-----------|
| Core Modules | | | |
| 1. | AMU 07601 | Aircraft Fabric | 9 |
| 2. | AMU 07602 | Hydraulic and pneumatic system | 9 |
| 3. | AMU 07603 | Auxiliary Systems | 9 |
| 4. | AMU 07604 | Airframe Systems | 9 |
| 5. | AMU 07605 | Wooden Structures | 9 |
| 6. | AMU 07606 | Avionic Systems | 9 |
| 7. | AMU 07607 | Air Law-Aviation Legislation | 6 |
| Total Credits | | | 60 |

(c) Award

On successfully completion of the course, a candidate who wishes to exit is awarded the Higher Diploma in Aircraft Maintenance Engineering of the National Institute of Transport.

8.8.1.2. Bachelor's Degree (NTA – Level 8) in Aircraft Maintenance Engineering

(a) Purpose of the Qualification

This qualification is intended to persons, who will independently integrate Aircraft Maintenance engineering principles in variety of activities and establish and use criteria to judge processes and outcomes.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | AMU 08101 | Helicopter Aerodynamics, Structures and Systems | 12 |
| 2. | AMU 08102 | Aircraft Maintenance Planning and Management | 9 |
| 3. | AMU 08103 | Aeroplane Aerodynamics Structure and Systems | 12 |
| 4. | AMU 08104 | Aircraft Troubleshooting Technique | 9 |
| 5. | AMU 08105 | Industrial Practical Training | 12 |
| 6. | AMU 08106 | Project Phase I | 9 |
| Fundamental Modules | | | |
| 7. | GSU 08101 | Research Methodology | 9 |
| Total Credits | | | 72 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|------------------|-----------|
| Core Modules | | | |
| 1. | AMU 08201 | Project Phase II | 33 |
| 2. | AMU 08202 | Internship | 27 |
| Total Credits | | | 60 |

(c) Award

On successful completion of the programme, a candidate is awarded the Bachelor's Degree in Aircraft Maintenance Engineering of the National Institute of Transport.

8.8.2. Diploma (NTA Level 4-6) in Aircraft Maintenance Engineering

8.8.2.1. Basic Technician Certificate (NTA Level 4) in Aircraft Maintenance Engineering

(a) Purpose of the Qualification

These qualifications are intended for individuals who will diagnose faults/troubles on aircrafts and carry out simple routine repairs and maintenance services efficiently and effectively.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | AMT 04106 | Aerodynamics-Theory of Flight | 9 |
| 2. | AMT 04107 | Aircraft Shop Theory and Practice 1-Machines and Tools | 9 |
| 3. | AMT 04108 | Aircraft Materials and Process | 12 |
| Fundamental Modules | | | |
| 4. | AMT 04101 | Aviation Mathematics | 6 |
| 5. | AMT 04102 | Aviation Physics | 9 |
| 6. | AMT 04103 | Aviation Chemistry | 6 |
| 7. | AMT 04104 | Aircraft Technical Drawing | 6 |
| 8. | AMT 04105 | Communication Skills | 6 |
| Total Credits | | | 63 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | AMT 04202 | Aircraft Shop Theory and Practice 2-Sheet Metal and Tools | 12 |
| 2. | AMT 04203 | Electricity and Digital Technology-Electric Machines | 9 |
| 3. | AMT 04204 | Aircraft Design and Construction- Light Aircraft | 6 |
| 4. | AMT 04205 | Piston Engine Design and Construction | 6 |
| 5. | AMT 04206 | On Job Training | 24 |
| Fundamental Modules | | | |
| 6. | AMT 04201 | Entrepreneurship Skills | 6 |
| Total Credits | | | 63 |

(c) Award

Candidate who successfully completed the programme and wishes to exit is awarded the Basic Technician Certificate in Aircraft Maintenance of the National Institute of Transport.

8.8.2.2. Technician Certificate (NTA – Level 5) in Aircraft Maintenance Engineering

(a) Purpose of the Qualification

The graduate is intended to perform non-routine maintenance services, troubleshooting and repair and component replacement on an aircraft.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | AMT 05102 | Aircraft Flight Control | 6 |
| 2. | AMT 05103 | Aircraft Landing Gear | 6 |
| 3. | AMT 05104 | Engine Lubrication and Cooling System | 6 |
| 4. | AMT 05105 | Engine Fuel Control and Induction System | 9 |
| 5. | AMT 05106 | Engine Ignition and Starting System | 9 |
| 6. | AMT 05107 | Engine Exhaust System | 6 |
| 7. | AMT 05108 | Aircraft Fuel Systems | 6 |
| 8. | AMT 05109 | Aircraft Power Systems | 6 |
| Fundamental Modules | | | |
| 9. | AMT 05101 | Aircraft Environment Systems | 6 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------|-------------|------------------------------|-----------|
| Core Modules | | | |
| 1. | AMT 05201 | Aircraft Electrical System | 6 |
| 2. | AMT 05202 | Aircraft Instruments Systems | 6 |
| 3. | AMT 05203 | Engine Instruments Systems | 6 |
| 4. | AMT 05204 | Aircraft Fire Protection | 6 |
| 5. | AMT 05205 | Aircraft Equipment | 6 |
| 6. | AMT 05206 | Aircraft Propulsion Systems | 6 |
| 7. | AMT 05207 | Aircraft Gas Turbine Engine | 6 |
| 8. | AMT 05208 | On Job Training | 18 |
| Total Credits | | | 60 |

(c) Award

Candidate who successfully completed the programme and wishes to exit is awarded the Technician Certificate in Aircraft Engineering of the National Institute of Transport.

8.8.2.3. Diploma in Aircraft Maintenance Engineering

(a) Purpose of the Qualification

The graduate is intended to be able to perform a broad range of activities most of which being non-routine. The activities carried out are of maintenance, production, service and repair, installation, estimation of resources required in maintaining an aircraft.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|------------------------------------|-----------|
| Core Modules | | | |
| 1. | AMT 06103 | Aircraft Navigation System | 12 |
| 2. | AMT 06104 | Aircraft Maintenance and Repair | 15 |
| 3. | AMT 06105 | Power Plant Maintenance and repair | 15 |
| 4. | AMT 06106 | Applied Practical Maintenance | 15 |
| Fundamental Modules | | | |
| 5. | AMT 06101 | Air Law and Regulations | 6 |
| 6. | AMT 06102 | Human Performance | 6 |
| Total Credits | | | 69 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | AMT 06207 | Aircraft Field repair and Maintenance on Job Training | 30 |
| 2. | AMT 06208 | Project | 18 |
| Fundamental Modules | | | |
| 3. | AMT 06201 | Entrepreneurship for Technician | 12 |
| Total Credits | | | 60 |

(c) Award

On successfully completion of the programme, candidates are awarded the Diploma in Aircraft Maintenance Engineering of the National Institute of Transport.

8.8.3. Academic Staff

Principal of School of Aviation Technology

Mr. Denis Mwangi

MBA – (OUT), Bachelor of Tourism Management – (SUA), Ab-initio Cabin Crew Certificate–(ATC), Cabin Crew Member Certificate – (TCAA), Instructional Techniques Certificate – (MABA-Malaysia), Quality Management Systems (QMS) for Civil Aviation Authority (CAA) and Air Navigation Service (ANS) providers- (IATA), Instructional Techniques- (IATA), Safety Management Systems (SMS) for Civil Aviation -(IATA), Human Factor in Ground Operations-(IATA), Aviation Internal Auditor- (IATA), Crew Resource Management (CRM) implementation – (IATA), Training of Trainers (TOT) workshop

on curriculum Development, Delivery and Assessment, Train of Trainer (TOT) ATR Training Centre – (France), Capacity Building Workshop on Leadership and Management Skills.

Head of Department Aeronautical Engineering

Dr. Benjamin W. Ndimila PhD in Production Engineering – (UDSM), MSc. Mechanical Engineering (Lifting Mechanisms, Construction and Road Machines and Equipments) – (Kharkov State Automobile and Highway Technical University, Ukraine), FTC Mechanical Engineering – (DIT), Member of ERB, Registered Professional Mechanical Engineer.

Examination Coordinator

Mr. Isaya Kephace Bachelor of Engineering in Electronics and Telecommunication Engineering - (DIT)

Associate Professor

Eng. Prof. Zacharia M.D. Mganilwa PhD in Agricultural Science – (Kagoshima University Japan), MSc in Agriculture machinery – (Miyazaki University Japan), BSc in Mechanical Engineering – (UDSM), FTC in Mechanical Engineering – (DIT).

Lecturers

Dr. Benjamin W. Ndimila PhD in Production Engineering – (UDSM), MSc. Mechanical Engineering (Lifting Mechanisms, Construction and Road Machines and Equipments) – (Kharkov State Automobile and Highway Technical University, Ukraine), FTC Mechanical Engineering – (DIT), Member of ERB, Registered Professional Mechanical Engineer.

Assistant Lecturers

Mr. Edwin Isidory MSc. in Aerospace Vehicle Design specialized in Avionic Systems Design – (Cranfield University - UK), BSc. in electronic science and Communication – (UDSM)

Mr. Frank P. Kapombe MSc. in Airplanes and Helicopters Design – (Kharkov National Aerospace University -Ukraine), BSc. in Aeronautics and Astronautics Engineering – (Kharkov National Aerospace University -Ukraine)

Tutorial Assistants

Mr. Abubakar K. Noor BSc. in Aeronautics (Aircraft Propulsion) – (University of Blida, Algeria)

*Mr. Ahmed A. Mohamed Bsc. in Aeronautical Engineering (Aircraft Manufacturing) – (Shenyang Aerospace University - China), Ordinary Diploma in Aircraft Maintenance Engineering – (Regional Aviation College)

Mr. Eybernady Kodyy Bachelor in Aircraft Maintenance Engineering – (NIT)

Tutors

Ms. Merina Mwasandube MSc. in Aircraft Design – (Nanjiru University of Aeronautics & Astronautics), BSc. in Aeronautical Engineering (Aircraft Manufacturing) – (Shenyang Aerospace University - China)

- *Mr. Ayubu M. Kedmundi BAME – (NIT)
- *Mr. Gideonamani A Marress Bachelor Degree in Organization of Aircraft Maintenance and Repair- (St. Peterburg State University of Civil Aviation – Russia)
- *Mr. Castory G. Njako BAME – (NIT), DAE - (NIT)
- Mr. Isaya Kephace Bachelor of Engineering in Electronics and Telecommunication Engineering - (DIT)

Laboratory Technician

- Ms. Samira A. Said DAME - (NIT)
- *Mr. Samwel R. Ophoro DAME – (NIT)
- *Mr. Masoud H. Ali DAME – (NIT)
- *Mr. Bakari Y. Ngunde Ordinary Diploma in Electronics and Telecommunication Engineering – (DIT)
- *Mr. Hemed Mwijae Ordinary Diploma in Electronics and Telecommunications Engineering – (DIT) check this
- Mr. Brighton B. Kahwa Ordinary Diploma in Electronics and Telecommunications Engineering – (MUST)

Head of Department of Flying and Operations Management

- Mr. Phabian P. Mongo BLTM– (NIT), Accounting Technician Certificate– (NBAA), Flight Operations Officer /Flight Dispatcher Certificate – (CATC), Flight Operations Officer’s License – (TCAA), Quality Management Systems (QMS) for Civil Aviation Authority (CAA) and Air Navigation Service (ANS) providers- (IATA), Instructional Techniques- (IATA), Safety Management Systems (SMS) for Civil Aviation -(IATA), Human Factor in Ground Operations-(IATA), Aviation Internal Auditor- (IATA), Crew Resource Management (CRM) implementation – (IATA).

Assistant Lecturer

- Mr. Denis Mwangi MBA – (OUT), Bachelor of Tourism Management – (SUA), Ab-initio Cabin Crew Certificate–(ATC), Cabin Crew Certificate – (TCAA), Instructional Techniques Certificate – (MABA-Malaysia), Quality Management Systems (QMS) for Civil Aviation Authority (CAA) and Air Navigation Service (ANS) providers- (IATA), Instructional Techniques- (IATA), Safety Management Systems (SMS) for Civil Aviation - (IATA), Human Factor in Ground Operations-(IATA), Aviation Internal Auditor- (IATA), Crew Resource Management (CRM) implementation – (IATA). Training of Trainers (TOT) workshop on curriculum Development, Delivery and Assessment, Train of Trainer (TOT) ATR Training Centre – (France). Capacity Bulding Workshop on Leadership and Management Skills.

Tutorial Assistant

- Mr. Phabian P. Mongo BLTM– (NIT), Accounting Technician Certificate – (NBAA), Flight Operations Officer /Flight Dispatcher Certificate – (CATC), Flight Operations Officer’s License – (TCAA), Quality Management Systems (QMS) for Civil Aviation Authority

(CAA) and Air Navigation Service (ANS) providers - (IATA), Instructional Techniques- (IATA), Safety Management Systems (SMS) for Civil Aviation -(IATA), Human Factor in Ground Operations - (IATA), Aviation Internal Auditor- (IATA), Crew Resource Management (CRM) implementation – (IATA).

Tutors

- Mr. Makene Zabloné Bachelor of Tourism Management– (SUA), Certificate of Wildlife Management – (CAWM, MWEKA), Ab-Initio Cabin Crew Certificate – (ATC), Cabin Crew Certificate – (TCAA), Cabin Crew Member- Certificate (TCAA), Instructional Techniques Certificate – (MABA-Malaysia), Quality Management Systems (QMS) for Civil Aviation Authority (CAA) and Air Navigation Service (ANS) providers- (IATA), Instructional Techniques - (IATA), Safety Management Systems (SMS) for Civil Aviation -(IATA), Human Factor in Ground Operations-(IATA), Aviation Internal Auditor- (IATA), Crew Resource Management (CRM) implementation – (IATA), Train of Trainer (TOT) ATR Training Centre – (France).
- Ms. Neema Lauwo MSc. In Marketing – (MU), Bachelor of Art in Cultural Anthropology and Tourism – (TUICo), Ab – Initio Cabin Crew Certificate – (ATC), Cabin Crew Certificate – (TCAA), Cabin Crew Member – (TCAA), Certificate, Instructional Techniques Certificate – (MABA-Malaysia), Quality Management Systems (QMS) for Civil Aviation Authority (CAA) and Air Navigation Service (ANS) providers - (IATA), Instructional Techniques- (IATA), Safety Management Systems (SMS) for Civil Aviation -(IATA), Human Factor in Ground Operations - (IATA), Aviation Internal Auditor - (IATA), Crew Resource Management (CRM) implementation – (IATA).
- *Mr. Marco Mutungi Bachelor of Engineering in Electrical and Electronics Engineering - (SJUIT), Quality Management Systems (QMS) for Civil Aviation Authority (CAA) and Air Navigation Service (ANS) providers- (IATA), Safety Management Systems (SMS) for Civil Aviation -(IATA), Human Factor in Ground Operations-(IATA), Aviation Internal Auditor - (IATA), Crew Resource Management (CRM) implementation – (IATA).
- Mr. Ashrafa H. Ramadhani Bachelor of Engineering in Electronics and Communication (SJUIT), Quality Management Systems (QMS) for Civil Aviation Authority (CAA) and Air Navigation Service (ANS) providers- (IATA), Safety Management Systems (SMS) for Civil Aviation - (IATA), Human Factor in Ground Operations- (IATA), Aviation Internal Auditor - (IATA), Crew Resource Management (CRM) implementation – (IATA).
- Mr. Anzaanien A. Nanyaro Bachelor of Engineering in Electronics and Communication (SJUIT), Quality Management Systems (QMS) for Civil Aviation Authority (CAA) and Air Navigation Service (ANS) providers - (IATA), Safety Management Systems (SMS) for

| | |
|--------------------------|--|
| | Civil Aviation - (IATA), Human Factor in Ground Operations- (IATA), Aviation Internal Auditor - (IATA), Crew Resource Management (CRM) implementation – (IATA). |
| Mr. Daniel H. Mwanansoga | Bachelor’s Degree in Logistics and Transport Management - (NIT), Basic Airport Operation – (CATC), Quality Management Systems (QMS) for Civil Aviation Authority (CAA) and Air Navigation Service (ANS) providers- (IATA), Safety Management Systems (SMS) for Civil Aviation - (IATA), Human Factor in Ground Operations- (IATA), Aviation Internal Auditor - (IATA), Crew Resource Management (CRM) implementation – (IATA). |
| Mr. Clinton A. Rocky | Bachelor’s Degree in Electrical and Electronics – (MUST), Dip in Electrical Engineering – (DIT) |
| Mr. Ally R Nchembi | Bachelor Degree in Aircraft maintenance Engineering – (NIT) |
| Ms. Fatuma S Ngamba | Bachelor’s Degree in Logistics and Transport Management – (NIT) |
| *On study leave | |

8.9. TRANSPORT SAFETY AND ENVIRONMENTAL STUDIES (TSES) DEPARTMENT

8.9.1. Organization of Short Courses

The Department of Transport Safety and Environmental Studies organizes and coordinates short duration courses which are run by the Institute. The courses are tailor-made to suit customer requirements.

The problems are identified either by the companies/organizations themselves or through the assistance of the Academic Staff of the Institute. Then seminars and short courses are organized to deliberate on solutions. The duration of each particular course depends on the nature of the identified problem and time clients can spare for the training. However, some of the short courses are conducted regularly and appear on the Institute’s calendar for each year as per details contained in section 4.7. Teaching of participants in different courses is done by Lecturers/Tutors from other departments.

8.9.1.1. Short Courses Conducted by the Department

- (a) **Advanced Drivers’ Course Grade II (for Industrial Vehicle Drivers)**
Objective: To impart knowledge, skills and correct attitude to enable participant to handle Industrial vehicles efficiently and effectively.
Duration: 4 weeks
- (b) **Advanced Drivers’ Course Grade II (for VIP Drivers)**
Objective: To impart knowledge, skills and values for correct attitudes so as to enable participants to provide proper services to VIPs and to handle vehicles safely and effectively.
Duration: 4 weeks

- (c) **Advanced Drivers' Course Grade I**
Objective: To impart knowledge, skills and values for correct attitudes so as to enable participants to handle vehicles and to exercise some degree of responsibility to their subordinates effectively and efficiently.
Duration: 4 weeks
- (d) **Public Service Vehicle (PSV) Drivers Course**
Objective: To impart knowledge, skills and values for correct attitudes to enable participants to provide services to passengers, observe safer driving and handle vehicles more efficiently and effectively.
Duration: 11 days
- (e) **Tyre Care and Maintenance**
Objective: To impart knowledge on tyres and maintenance and create tyre awareness for vehicle cost effective operation
Duration: 5 days or 40 hours
- (g) **Vehicle Safety Management and Control**
Objective: To impart knowledge on safety and comfort for vehicle user to enable participants to identify and perform safety on vehicle
Duration: 5 days
- (h) **Heavy Goods Vehicles (HGV) Course**
Objective:
- To improve road safety in Tanzania by reducing number of road crashes involving heavy goods vehicle in order to reduce the number of fatalities and injuries
 - To reduce vehicles operating cost
 - To increase reliability
- Duration:** 15 days.
- (i) **Defensive Drivers Training (DDT)**
Objective:
 To impart safe driving knowledge and techniques to drivers in order to avoid road crashes,
Duration: 3-5 days.
- (j) **Senior Drivers' Course**
Objective: To produce a Driver with ultimate skills of fleet management.
Duration : 6 weeks.
- (k) **Forklift Operator Training**
Objective:
- To ensure the safe and proper use of Powered Industrial Trucks (PITs)
 - To ensure that operators of fork lift truck are compliant with

regulations relating to matters including driver licensing, drivers fitness, lifting worthness, the safe loading and maneuvering of lifting trucks.

Duration: 5 days

(l) Drivers' Examiner Course

Objective: To impart knowledge to know how to examine a potentially good driver for safe motor vehicle operation.

Duration: 10 weeks

(m) Bus Rapid Transport Driving Course (BRT)

Objective: To impart clear understanding and skills of safe driving and proper handling of customers and BRT buses, Including articulated buses.

Duration: 6 days

(n) Airport Vehicle Driving and Operation Courses

Objective: To mentor a highly skilled airport Vehicle Drivers who will assist in delivering ground handling services.

Duration: 10 weeks

(o) Bus Passengers Customers Service

Objective: To impart knowledge and skills to bus passenger Cabin Crew with ability to deliver excellent customer service.

Duration: 02 weeks

8.9.1.2. Awards

Two types of awards are offered to participants depending on the nature of the course attended. Courses that are examined through approved examinations lead to an award of a Certificate of Competence to those who pass examinations. Participants who attend courses which are not examined at the end of the course are given Certificates of Attendance. Such courses have durations ranging between one day and two weeks.

8.9.2. Academic Staff

Ag. Head of Department

Mr. Patrick O. Makule BAE (NIT), Dip. Auto. Eng. - (NIT), FTC in Mech. Eng. - (Mbeya Tech.) Cert. in Electronic Control Fuel Injection and Automatic Gearbox - (Nakawa-Uganda), Automotion with Hydraulics and pneumatics - (India).

Instructors/Facilitators

| | |
|------------------------|--|
| Dr. Nuru Kitara | PhD in Environmental Sciences (SUA) MSc. in Environmental Sciences (Zuric University, Switzerland), BSc in Environmental Sciences and Management (SUA) |
| *Ms. Mary Makyao | MSc. Renewable Energy – (UDSM/Makerere), BSc. Environmental Science and Management – (ARU) |
| Mr. Patrick O. Makule | BAE (NIT), Dip. Auto. Eng. - (NIT), FTC in Mech. Eng. - (Mbeya Tech.) Cert. in Electronic Control Fuel Injection and Automatic Gearbox - (Nakawa-Uganda), Automotion with Hydraulics and pneumatics - (India). |
| Ms. Lydia T. Kamugisha | MSc. Environmental Technology Management (ARU), BSc. Enviromental Laboratory Science and Technology- (ARU), Dipl. Education - (Morogoro T.T.C) |
| Mr. Pascal P. Duwe | BAE – (NIT), Certificate in Engineering – (Technical College Arusha). |
| Mr. Khalifa Hamisi | MSc. in Oil and Natural Gas Engineering (CUG-China), Mechanical Engineering – (MUST). |

8.10. LIBRARY AND INFORMATION STUDIES DEPARTMENT

The Department is responsible for planning, organizing and conducting of Library and Information and Records, Archives and Information Management programmes. Currently the Department is conducting the Certificate (NTA Level 4-5) Programmes.

8.10.1. Diploma in Library and Information Studies

8.10.1.1. Basic Technician Certificate (NTA Level 4) in Library and Information Studies Programme

(a) Purpose of the Qualification

This qualification is intended for persons who will perform routine Library and Information Management operational activities in service and production organizations. Such activities include preparing, issuing and maintaining documents, and handling library users.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|---------------------|-------------|---|---------|
| Core Modules | | | |
| 1. | LIT 04101 | Basics of Cataloging and Classification | 15 |
| 2. | LIT 04102 | Basic Concepts of Libraries | 12 |
| 3. | RAT 04101 | Basics of Records and Archives Management | 15 |

| Fundamental Modules | | | |
|--|-----------|-----------------------------|-----------|
| 4. | LIT 04104 | Basic Business English | 9 |
| 5. | LIT 04105 | Basic Computer Applications | 9 |
| Total Credit Hours for Semester I | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|---|--------------------|---|----------------|
| Core Modules | | | |
| 1. | LIT 04207 | Elements of Collection Development and Inventory System | 15 |
| 2. | LIT 04208 | Basics of Disasters management and Security library Materials | 12 |
| 3. | LIT 04209 | Basics of User Information Needs and Services | 12 |
| 4. | LIT 04210 | Industrial Training | 12 |
| Fundamental Modules | | | |
| 5. | LIT 04206 | Elements of Business Mathematics | 9 |
| Total Credit Hours for Semester II | | | 60 |

(c) Award

Upon successfully completion of the programme, a candidate who wishes to exit is awarded the Basic Technician Certificate in Library and Information Studies of the National Institute of Transport.

8.10.1.2. Technician Certificate (NTA Level 5) in Library and Information Studies Programme

(a) Purpose of the Qualification

This qualification is intended for a person who will perform a range of activities some of which are non routine. The activities include processing, storing, issuing and maintaining, marshalling and handling library materials.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|--|--------------------|---|----------------|
| Core Modules | | | |
| 1. | LIT 05101 | Information Sources and Reference Services | 12 |
| 2. | LIT 05102 | Library Collection Development | 12 |
| 3. | LIT 05104 | Library Storage and Retrieval System | 12 |
| 4. | LIT 05103 | Library Descriptive Cataloging and Subject Analysis | 12 |
| Fundamental Modules | | | |
| 5. | LIT 05105 | Elementary Business Statistics | 9 |
| 6. | GST 05101 | Basics of Entrepreneurship Skills | 9 |
| Total Credit Hours for Semester I | | | 66 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|---------------------|--------------------|--------------------------------------|----------------|
| Core Modules | | | |
| 1. | LIT 05206 | Basics of Library Customers Services | 9 |
| 2. | LIT 05207 | Principles of Records Management | 12 |
| 3. | LIT 05211 | Industrial Training | 12 |

| Fundamental Modules | | | |
|---|-----------|--|-----------|
| 4. | LIT 05208 | Basics of Information Management | 9 |
| 5. | LIT 05209 | Elementary Business Communication Skills | 9 |
| 6. | LIT 05210 | Computer Applications | 9 |
| Total Credit Hours for Semester II | | | 60 |

(c) Award

On successful completion of the programme candidate who wishes to exit is awarded the Basic Technician Certificate in Electrical Engineering of the National Institute of Transport.

8.10.1.3. Diploma in Library and Information Studies

(a) Purpose of the Qualification

This qualification is intended for persons who will perform non-routine Library and Information Management operational activities in services and production organizations. Such activities include performing clerical duties, registration of readers, bibliographical searching, on job training, preparation, issuing and maintaining documents, and handling library users.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|--|-------------|---|---------|
| Core Modules | | | |
| 1. | LIT 06102 | Basics of Library Management and Administration | 12 |
| 2. | LIT 06104 | Fundamentals Management Information Systems | 12 |
| Fundamental Modules | | | |
| 3. | LIT 06106 | Basics of Research Methodology | 9 |
| 4. | LIT 06101 | Knowledge Management | 9 |
| 5. | LIT 06103 | Marketing Library and Information Services | 9 |
| 6. | LIT 06105 | Library Automation and Database Management | 9 |
| Total Credit Hours for Semester I | | | |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | LIT 06207 | Information Literacy Skills | 9 |
| 2. | LIT 06208 | Ethics and Regulatory Framework for Library Studies | 9 |
| 3. | LIT 06210 | Principles of Storage, Retrieval and Dissemination of Library Information | 9 |
| 4. | LIT 06211 | Archives Administration | 12 |
| 5. | LIT 06212 | Research Project | 12 |
| Fundamental Modules | | | |
| 6. | LIT 06209 | Development Studies | 9 |
| Total Credits | | | 60 |

(c) **Award**

On successful completion of the programme a candidate is awarded the Diploma in Library and Information Studies of the National Institute of Transport.

8.10.2. Diploma (NTA Level 6) in Records, Archives and Information Management

8.10.2.1. Basic Technician Certificate (NTA Level 4) in Records, Archives and Information Management Programme

(a) **Purpose of the Qualification**

This qualification is intended for a person who will perform routine records, archives and information management operational activities in services and production organizations. Such activities include receiving incoming mails distributing official publications, issuing and maintaining documents, marshalling resources and handling archival materials.

(b) **Summary of Modules**

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | RAT 04101 | Basics of Records and Archives Management | 15 |
| 2. | RAT 04102 | Elements of Office Management | 15 |
| 3. | RAT 04104 | Conservation and Preservation of Records and Archives | 12 |
| Fundamental Modules | | | |
| 4. | RAT 04103 | Basic Computer Applications | 9 |
| 5. | RAT 04105 | Basic Business English | 9 |
| Total Credits | | | 60 |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|----------------------------------|-----------|
| Core Modules | | | |
| 1. | RAT 04207 | Fundamentals of Office Practice | 15 |
| 2. | RAT 04209 | Safety and Security of Records | 15 |
| 3. | RAT 04210 | Industrial Training | 12 |
| Fundamental Modules | | | |
| 5. | RAT 04206 | Elements of Business Mathematics | 9 |
| 6. | RAT 04208 | Fundamentals of Customer Care | 9 |
| Total Credits | | | 60 |

(c) **Award**

Upon successful completion of the programme, is candidate who wishes to exit is awarded the Basic Technician Certificate in Records, Archives and Information Studies of the National Institute of Transport.

8.10.2.2. Technician Certificate (NTA Level 5) in Records, Archives and Information Management Programme

(a) **Purpose of the Qualification**

This qualification is intended for a person who will perform a range of

activities some of which are non – routine. The activities include preparation, issuing and maintaining documents, marshalling resources and handling archival materials.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|---------|
| Core Modules | | | |
| 1. | RAT 05101 | Principles of Archival Management | 12 |
| 2. | RAT 05102 | Principles of Records Management | 12 |
| 3. | RAT 05103 | Principles of Information Management | 12 |
| 4. | RAT 05104 | Legal and Ethical Issues in Records Management | 12 |
| Fundamental Modules | | | |
| 5. | RAT 05105 | Elementary Business Statistics | 9 |
| 6. | GST 05101 | Basics of Entrepreneurship Skills | 9 |
| Total Credits | | | |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|---|-----------|
| Core Modules | | | |
| 1. | RAT 05209 | Selection and Acquisition of Archival Materials | 12 |
| 2. | RAT 05210 | Records Office Procedures and Practices | 12 |
| 3. | RAT 05211 | Industrial Training | 12 |
| Fundamental Modules | | | |
| 4. | RAT 05206 | Computer Applications | 9 |
| 5. | RAT 05207 | Elementary Business Communication | 9 |
| 6. | RAT 05208 | Basics of Customer Services | 9 |
| Total Credits | | | 63 |

(c) Award

Upon successfully completion of the programme, a candidate who wishes to exit is awarded the Technician Certificate in Records, Archives and Information Studies of the National Institute of Transport.

8.10.2.3. Diploma (NTA Level 6) in Records, Archives and Information Management

(a) Purpose of the Qualification

This qualification is intended for persons who will perform a broad range of activities most of which being non–routine. The activities include preparation, issuing and maintaining documents, marshalling resources and handling archival materials.

(b) Summary of Modules

SEMESTER I

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--------------------------------------|---------|
| Core Modules | | | |
| 1. | RAT 06102 | Fundamentals of Database Management | 12 |
| 2. | RAT 06103 | Electronic Records | 9 |
| 3. | RAT 06104 | Records Management Systems | 12 |
| 4. | RAT 06105 | Marketing of Information Services | 9 |
| Fundamental Modules | | | |
| 5. | GST 06101 | Knowledge Management | 9 |
| 6. | RAT 06106 | Fundamentals of Research Methodology | 9 |
| Total Credits | | | |

SEMESTER II

| S/No | Module Code | Module Name | Credits |
|----------------------------|-------------|--|-----------|
| Core Modules | | | |
| 1. | RAT 06212 | Research Project | 12 |
| 2. | RAT 06207 | Management of Specialized Records | 9 |
| 3. | RAT 06208 | Preservation and Conservation of Records | 9 |
| 4. | RAT 06209 | Archives Management | 12 |
| Fundamental Modules | | | |
| 5. | RAT 06201 | Development Studies | 9 |
| 6. | RAT 062011 | Principle of Human Resources Management | 9 |
| Total Credits | | | 60 |

(c) Award

On successful completion of the programme a candidate is awarded the Diploma in Records, Archive and Information Studies of the National Institute of Transport.

8.10.3. Academic Staff

Head of Department

Ms. Fitina Petro

Master of Library and Information Management-(OUT), M.A. Educational Management and Administration – (KIU - Uganda), B.A Library and Information Studies– (TUDARCO), Dip in Adult Education and Community Development (IAE), Grade A Teachers Cert.– (Kasulu T.T. C)

Examination Coordinator

Mr. Victor J. Mbezi

BA in Library and Information Management – (OUT), Dip. in Library, Archives and Documentation Studies – (SLADS, Bagamoyo). Cert. in Library, Archives and Documentation Studies – (SLADS, Bagamoyo)

Chief Librarian

Ms. Fitina Petro Master of Library and Information Management-(OUT), M.A. Educational Management and Administration – (KIU - Uganda), B.A Library and Information Studies – (TUDARCo), Dip in Adult Education and Community Development (IAE), Grade A Teachers Certificate – (Kasulu T.C.C)

Principal Librarian

Mr. Meshack Pangani MA Community Economic Development (Southern New Hampshire University - Manchester), Bachelor of library and Information studies (Makerere University)

Tutorial Assistant

Ms. Jenipher G. Marandu MSc. Information Science, Records and Archives - (Moi University), B.A Political Science and Public Administration - (UDSM)

Mr. Nuhu S Sephania Bachelor's Degree of Public Administration in Records and Archives Management – (MU)

Ms. Neema Mhagama BA in Library and Information Studies – (TUDARCo), Dip. in Library Archives and documentation – (SLADS, Bagamoyo).

Librarian II

Ms. Monica J. Kissima BA Library - (UCU - Uganda), Dip. in Library Archives and documentation – (SLADS, Bagamoyo), Cert. in Library Archives and documentation studies – (SLADS, Bagamoyo)

Ms. Anitha C. Bitakwate BSc. in Library and Information Management – (MU)

Mr. Epafra S. Nyambaro BSc. in Library and Information Management – (MU)

Mr. Victor J. Mbezi BA in Library and Information Management – (OUT), Dip. in Library, Archives and Documentation Studies – (SLADS, Bagamoyo). Cert. in Library, Archives and Documentation Studies – (SLADS, Bagamoyo)

Mr. Dismas J Ndanu BA in Library and Information Studies – (TUDARCo), Dip. in Library, Archives and Documentation Studies – (SLADS, Bagamoyo). Cert. in Library, Archives and Documentation Studies – (SLADS, Bagamoyo)

Senior Library Assistant I

Ms. Rehema Msangi Dip. in Library Archives and documentation – (SLADS, Bagamoyo).

Ms. Conjesta Moshia Dip. in Library Archives and documentation – (SLADS, Bagamoyo).

Ms Rukia Majura Dip. in Library Archives and documentation – (SLADS, Bagamoyo).

Ms. Asteria Mabagala Dip. in Library Archives and documentation – (TPSC). Cert. in Library Archives and documentation – (SLADS, Bagamoyo).

Library Assistants

Mr. Nassoro Masoud Dip. in Library Archives and documentation – (SLADS, Bagamoyo).

9.0 CONSULTANCY AND PRODUCTION BUREAU (CPB) DEPARTMENT

The Department is responsible for coordinating research, consultancy and publication activities dedicated to the growth of knowledge in the transport and

communications sectors. It provides expert/professional advice in relevant fields of sectoral needs.

The Institute charges reasonable fees for consultancy services that it renders to its clients.

10.0 NATIONAL TRANSPORT RESOURCE CENTRE (NTRC)

Previously, the National Transport Resource Center was known as The Library Service Department. The National Institute of Transport is the main and only Institute focused on training personnel to work in the transport sector. It has been noted that the Institute has the responsibility of collecting and providing transport information to the general public. Following this, we have decided to take advantage of the technological advancement to become the main provider of transport information through the National Transport Resource Center.

Size of the Stock

Currently, the center has a collection of more than 9,500 volumes which include books and journals. In addition, there is a collection of more than 500 CD ROMs.

Core Functions

- (i) To acquire, process store and preserve various materials related to transportation and make them accessible to the public.
- (ii) To support the learning and training activities of the Institute.

11.0 DIRECTORATE OF PLANNING AND ADMINISTRATION

The Directorate of Planning and Administration has three Departments dealing with Personnel and Administration, Finance and Students Welfare.

12.0 PERSONNEL AND ADMINISTRATION DEPARTMENT

The Personnel and Administration Department serves the Institute in the provision of the following services:

- (i) Staff Recruitment,
- (ii) Staff Training,
- (iii) Secretarial Services,
- (iv) Security,
- (v) Staff Welfare,
- (vi) Registry,
- (vii) Equipment Maintenance.

13.0 FINANCE DEPARTMENT

This Department has two sections under it: Accounts and Stores. The role of this Department is to provide financial management services that include provision of:

- (a) Day to day financial services,
- (b) Financial reports, payment of workers' salaries and other emoluments,
- (c) Collection of fees and other charges,
- (d) Storage and issuance of supplies.

14.0 STUDENTS' WELFARE DEPARTMENT

The department of students' welfare is responsible for all activities in connection with students' welfare. These include students' guidance and support, students counseling, accommodation, effective and timely provisions of learning support, students safety, sports, policy and procedures for resolving students' complaints and students' general welfare.

15.0 EXAMINATION RULES AND REGULATIONS – 2018

PART I PRELIMINARIES

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15.1 CITATION

- 1.1. These regulations may be cited as the National Institute of Transport Examination Regulations, 2018. The National Institute of Transport (NIT) was established by the National Institute of Transport Act No. 24 of 1982 [Now Cap 187 R.E 2002].

15.2 APPLICATION OF EXAMINATION RULES AND REGULATIONS

- 1.2.(1) These Rules and Regulations shall set the course of actions to be pursued by the Institute on all matters related to examination conduct and its awards in all programmes leading to qualifications under National Technical Awards (NTA) which is from Level four (4) to level nine (9) [Note that issues in these Rules and Regulations related to NTA 9 correspond with the University Qualification Framework (UQF0 9)].
- 1.2 (2) All NIT students shall be conversant with and abide by these Examination Rules and Regulations.

15.3 STATUTORY EXAMINATION MANDATE

- 1.3. By the power issued the National Institute Act, Cap 187 of 2002 the Institute has a mandate to make rules and regulations that govern the conducting of examinations.

15.4 PRIMACY OF THE EXAMINATION RULES AND REGULATIONS

- 1.4. These Regulations shall take precedence over any other regulations and rules including those of external institutions and/or professional bodies.

15.5 DEFINITIONS

- 1.5. Terms used in these Rules and Regulations shall be defined as below:

- (a) “Academic Staff” means a full time or part time teacher, tutor, lecturer or professor and invited expert who is identified to facilitate the teaching and learning of a module(s) or part of it. Academic staff shall be responsible for setting examinations,
- (b) “Act” means the National Institute of Transport Act Cap 187 R.E 2002,
- (c) “Candidate” means a registered student at the Institute who has fulfilled all registration requirements,
- (d) “Carry-over” means to repeat failed module(s) when a student has a GPA of 2.0 or above or has not attended the required number of classes or has failed Continuous Assessment in some of the modules and thus be ineligible to sit for the End of Semester Examinations in the failed respective module,
- (e) “Continuous Assessment” means any form of summative evaluation made during the semester. This evaluation may constitute but not limited to classroom tests, homework, project and field work attachment which contributes to the final score of the examination of a particular module,
- (f) “Core Module” means an essential learning package specifically related to the programme of study,
- (g) “Cumulative Grade Point Average (Cum GPA)” means the summation of each grade point times the credits of each module divided by the total credits taken by the candidate during the programme of study,
- (h) “Elective module(s)” means a module(s) that a student may opt to take on own preference,
- (i) “Examination” means a measurement of academic or professional achievement through different ways of assessment which may help to predict the candidate’s academic or professional competence,
- (j) “Extra-curricular activities” means an activity which is not directly related to the curriculum of any Institute module and it carries no weigh in the modules’ credit points,
- (k) “Fundamental Module” means an independent package of learning not directly related to the programme of study that a candidate is undertaking,
- (l) “Grade Point” means a number of points which indicate the scores that a candidate obtained in both the Continuous Assessment and End of Semester Examinations,
- (m) “Institute” means the National Institute of Transport (NIT),
- (n) “Invigilator” means an officer who supervises students during examination sessions and ensures that examinations instructions and regulations are adhered to,
- (o) “Module” means an independent package of learning which constitute an academic programme of study,
- (p) “Oral Examination” means an examination where a student is examined by

- way of spoken questions and required to respond in the same way,
- (q) “Programme” means the totality of modules to be taught towards final awards,
 - (r) “Re-take” means to repeat a module when a student with a GPA of 2.0 or above fails a supplementary examination of the respective module
 - (s) “Semester” means an academic period during which modules are taught and examined,
 - (t) “Semester Grade Point Average (Sem. GPA)” means the summation of grade points times the credits of each module divided by the total credit taken by a candidate in a particular semester,
 - (u) “Special Examination” is an examination organized for a candidate who could not sit for an examination due to justifiable reason(s),
 - (v) “Supervisor” means an officer who is responsible to ensure that examinations instructions and regulations as well as invigilation procedures are adhered to,
 - (w) “Supplementary Examination” means an examination administered to a candidate who attained a G.P.A of 2.0 or above but failed examination of some modules, “Student” means a person who is registered by the NIT to pursue a particular programme of study.

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PART II
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16.0 CONDITIONS FOR EXAMINATION

16.1. REGISTRATION OF MODULES

- 2.1.(1) Registration of modules per semester shall be subject to payment of tuition fee and fulfilling any other obligations,
- 2.1.(2) At the beginning of each semester, every student shall register for core modules at respective departments/schools after consulting the head of specific department/school. In case of elective modules, students shall register for the modules at the respective departments/schools after receiving an approval from respective heads of departments/schools,
- 2.1.(3) All candidate shall be examined in all modules registered for,
- 2.1.(4) The offering of elective modules shall depend on the availability of academic staff for the respective module(s),

16.2. EXAMINATION COMPONENTS

- 2.2.(1) The process of examining students shall be in two components:
Continuous Assessment and End of Semester Examinations.

- 2.2.(2) Where the module demands, there shall be a written examination, practical and/or oral examination to serve as End of Semester Examination.
- 2.2.(3) The examination shall be conducted on dates and time as stipulated in the NIT academic calendar.
- 2.2.(4) The end of semester examinations shall be conducted two weeks before the semester ends.
- 2.2.(5) The duration of examinations for different NTA levels shall be as follows:
The duration for NTA 4-5 examinations shall be at least two hours,
The duration for NTA 6 shall be two and half hours,
The duration of NTA 7-8 shall be three hours.
- 2.2.(6) Extra time shall be given to students with special needs for a time-span to be specified by the Examination Board. The time-span shall be based on the type of disability.
- 2.2.(7) Special and supplementary examinations shall be conducted as shown in the academic calendar,
- 2.2.(8) Supplementary examinations for candidates who sat for special examinations shall be conducted when next offered.

16.3. ELIGIBILITY FOR SEMESTER EXAMINATION

- 2.3 (1) No candidate shall be eligible for any semester examination in any module unless the Head of Department/School has been satisfied that the candidates;
- (a) Has attended at least 80% of allocated lecture and practical time,
 - (b) Has done Continuous Assessment and get the required minimum score to sit for an End of Semester examination,
 - (c) Is not involved in any legal offence.
- 2.3.(2) Students with compelling reasons shall be granted permission to be absent from classroom attendance or end of semester examination by the Rector. Compelling reasons for absence from classroom attendance or examination shall include inter alia; loss of a parent or close relative, sickness or any other strong reasons.
- 2.3.(3) Notwithstanding the provision in Regulation 2.3(1) above, candidates shall be required to attend specified number of lectures and Continuous Assessment that is to say, such candidate shall be required to re-take the module(s) when next offered so as to attain the 80% of lecture attendance before being allowed to sit for the required End of Semester Examination.

16.4. ABSENT FROM EXAMINATION

- 2.4.(1) The Examination Board through its appropriate procedures shall discontinue from studies any candidate who deliberately absents oneself from doing Continuous Assessment, semester, special and/or supplementary

examination without valid reason(s).

2.4.(2) A Candidate who did not attend a specified number of lectures or did not sit for any particular examination due to being involved in extra-curricular activities shall be required to provide Evidence of such before being allowed to sit for a special examination.

2.4.(3) Notwithstanding any matter contained in these Rules and Regulations, no student who has been expelled or suspended or barred from sitting any examination after being found to be involved in examination irregularities, disciplinary misconducts, criminal offenses or any other acts taken to be unethical or unacceptable by the Institute shall sit for any examination.

16.5. EXAMINATION OF CANDIDATES WITH DISABILITY

2.5. The Institute shall determine the types of disabilities which require special support and it shall render the necessary support.

2.5.(1) Special support shall be:

- (a) To provide services that would enable students with special needs to comfortably sit for examinations,
- (b) To apply appropriate mechanisms for assessing and examining candidates with special needs,

2.5.(2) In order for a candidate to receive special support, the candidate shall produce appropriate evidence to prove the nature of disability and indicate the support required.

2.5.(3) Candidates who suffer from a disability which renders them unable to write shall be allowed to use amanuensis. Conditions and criteria for allowing amanuensis shall be as indicated below.

- (a) Conditions for allowing amanuensis shall be as follows:
 - (i) Students shall be allowed to use an amanuensis only when the student has a disability which makes the student unable to write,
 - (ii) The use of amanuensis shall be allowed only when the student's condition is duly certified by a professionally registered and recognized medical doctor,
 - (iii) Amanuensis shall only support students in examinations which require writing and shall not support students in practical examinations,
 - (iv) All examinations supported by amanuensis shall have invigilators.
- (b) Criteria for selecting an amanuensis shall be as follows:
 - (i) The amanuensis shall not have the same field of study as the students being supported.

- (ii) The amanuensis shall have a lower education qualification as compared to the supported student. For example, a student studying for a degree shall not have an amanuensis with qualifications of a degree or above,
- (iii) The amanuensis shall not be a staff or student of the NIT.

16.6 CONDITIONS FOR DOING SUPPLEMENTARY EXAMINATIONS

- 2.6.(1) Special and Supplementary examinations shall be conducted as shown in the Academic Calendar.
- 2.6.(2) Students who sit for special examinations and fail shall sit for supplementary examination when next offered on dates indicated in the academic calendar.
- 2.6.(3) A candidate who fails supplementary examination with an overall GPA of 2.0 or above shall not progress to the next level of study. The student shall re-take the failed module in the subsequent academic year.
- 2.6.(4) For a candidate to qualify to sit for a supplementary examination, the candidate shall have an overall GPA of 2.0 or above for NTA 4-8 student and 3.0 points or above for NTA 9 student. A student with less than the prescribed GPA shall be discontinued from studies.
- 2.6.(5) For a student to progress to the next level of studies, the student shall pass all modules prescribed in the respective programme Level of study.
- 2.6.(6) A candidate who fails an examination when re-taking a core, fundamental or optional module shall be required to do a supplementary examination. When such candidate fails the respective supplementary examination the candidate shall repeat the failed module when next offered.

16.7 CONDITIONS FOR DOING SPECIAL EXAMINATION

- 2.7.(1) Students requesting for special examination shall submit relevant and sufficient evidence to qualify to sit for the respective examination.
- 2.7.(2) For candidates to be considered for special examination they shall have to submit sufficient documentary evidence (s) before the start of the End of Semester Examination and got approval from the Rector.
- 2.7.(3) Candidates appearing for a Special Examination shall be considered as sitting for an examination for the first time.
- 2.7.(4) Special Examination shall be conducted at the time and date when supplementary examinations are being held as shown in the academic calendar.

16.8 CONDITIONS FOR POSTPONEMENT OF STUDIES

- 2.8.(1) A Candidate who wishes to postpone studies shall provide substantive evidence(s) which proves that, the candidate cannot continue with studies.
- 2.8.(2) The maximum period for postponement of studies shall be four (4) semesters or two consecutive academic years.
- 2.8.(3) Postgraduate students shall submit an application for postponement to the Directorate of Research and Postgraduate Studies.
- 2.8.(4) Students who postponed studies and wish to be re-admitted shall pay the prescribed tuition fee.

16.9 CONDITIONS FOR EXTENSION OF STUDIES FOR NTA 9

- 2.9.(1) Students may apply for extension of studies at least three (03) months before the completion of studies.
- 2.9.(2) Students shall be allowed an extension of nine weeks whereby the first extension shall be for six (6) weeks and the second extension shall be three (3) weeks.
- 2.9.(3) In order to qualify for the second extension a student shall pay at least 30% of the required tuition fee.
- 2.9.(4) Candidate who fails to complete studies within the specified extended period without justifiable reasons shall be deregistered from studies.

16.10 CONDITIONS FOR DISCONTINUATION FROM STUDIES

2.10. A Candidate shall be discontinued from studies when:

- (a) At the end of the academic year, a student has an overall GPA of less than 2.0 for NTA 4-8 and 3.0 for NTA 9,
- (b) A student is found cheating in an examination or commit examination misconducts or irregularities mentioned in the Examination Rules and Regulations,
- (c) A student is absent from an examination without the approval of the Rector,
- (d) A postgraduate candidate fails more than five modules or fails to complete the research within the period of three (03) years.
- (e) A student is involved in plagiarism.

16.11 CONDITIONS FOR EXAMINATION APPEAL

- 2.11.(1) Students wishing to appeal against examination results shall appeal to the Deputy Rector Academics, Research and Consultancy through the respective head of department/school within ten working days from the day the provisional examination results are published
- 2.11.(2) Appeal shall be considered on the basis of the following allegations:
 - (a) Unfair marking,
 - (b) Wrong computation,
 - (c) Irregularities committed in the process of conducting the examination.No appeal shall be considered unless it falls within the above listed allegations.
- 2.11.(3) In order for an appeal to be considered a student shall fill and complete a written appeal form and submit it to the Deputy Rector Academic, Research and Consultancy through the head of respective department/school.
- 2.11.(4) All appeals shall be accompanied with evidence of payment of an appeal fee. Non-payment of an appeal fee shall render the appeal as null and void.

16.12 CONDITION FOR RE-ADMISSION

- 2.12.(1) A candidate who has been discontinued from studies due to academic reasons shall not be re-admitted until after the lapse of six (6) semesters. A candidate wishing to be re-admitted before the lapse of six (6) semesters shall be admitted into a different programme from which the candidate was discontinued from studies.
- 2.12.(2) A candidate who is discontinued from studies on the basis of examination irregularity shall not be re-admitted until the lapse of six (6) semesters. A Candidate wishing to be re-admitted after the lapse of six (6) semesters shall be considered for re-admission only after submitting evidence to Rector Confirming that, the candidate shall not be involved in any examination irregularity again.

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PART III
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17.0 ASSESSMENT, GRADING SYSTEM AND AWARD

17.1 EVALUATION SYSTEM

17.2 ASSESSMENT OF CANDIDATES

- 3.1. There shall be formative, summative, fieldwork and research/project work assessment.
- 3.1.(1) Unless stated otherwise the assessment of candidates shall be formative and summative assessment.
- 3.1.(2) Formative Assessment shall be part of teaching and shall comprise of classroom tests and assignments which are meant to determine candidates level of understanding of a particular subject matter. Formative Assessment shall count for Continuous Assessment (CA).
- 3.1.(3) Summative Assessment shall include Inter alia;
- (i) Written end of semester examinations,
 - (ii) Practical and/or oral examination,
 - (iii) Project reports, field reports, Industrial Training and Research as determined by the respective curriculum.
- 3.1.(4) Students required to Re-take their fieldwork, research, project work or Industrial Training attachment shall do so during vacation period and The Re-take shall be undertaken on students' own cost.
- 3.1.(5) A student who fails to submit an Industrial Training attachment report, research/project or fieldwork report within the prescribed deadline shall have to inform the head of respective department/school in writing and provide substantive explanation and evidence(s) of failing to submit the respective report on time.

17.3 CONDITIONS FOR PASSING MODULE(S)

There shall be conditions for passing a module.

There shall be conditions for passing a module.

- (1) The format for the examination results grading of Continuous Assessment (CA) and end of semester examination shall be a number with one decimal point.
- 3.2.(2) The final assessment score shall be rounded off to the nearest whole number and determined by the marking scale from 0% to 100%.
- 3.2.(3) The overall minimum pass mark for NTA modules shall be 40 per cent.
- 3.2.(4) Students shall have to pass the Continuous Assessment (CA) component in order to do end of semester examination.
- 3.2.(5) The minimum pass mark for Continuous Assessment (CA) component for different NTA levels shall be as follows:
 - (a) NTA 4 and 5, minimum pass shall be 20 marks,
 - (b) NTA 6 minimum pass shall be 18 marks,
 - (c) NTA 7 and 8 minimum pass shall be 16 marks.
- 3.2.(6) A student who fails the Continuous Assessment (CA) component shall not be eligible to sit for the end of semester examination and shall be required to re-take the failed module(s) in the subsequent academic year.

17.4 GRADING OF EXAMINATION RESULTS

3.3.(1) The grading system shall be as follows:

- (a) For NTA level 4 and 5 grades A, B and C shall be regarded as pass in ascending order of merit; where A will be the highest pass grade and C will be the minimum pass grade, whereas D, where as F shall be regarded as fail,
- (b) For NTA 6 to 9 grades A, B+, B and C shall be regarded as pass in ascending order of merit where A will be the highest pass grade and C would be the minimum pass grade and D and F shall be considered as fail,

17.5. CALCULATION OF GRADE POINT AVERAGE

3.4.(1) Credits obtained from core and fundamental modules shall be considered when calculating the candidate's Grade Point Average (GPA).

3.4.(2) When a candidate takes more than the required elective/option modules the calculation of the GPA shall only include the grades of modules which the candidate obtained the highest scores. However, all modules undertaken and grades obtained by the candidates shall appear on the candidate's Academic Transcript,

3.4.(3) The calculation of the cumulative Grade Point Average (GPA) shall be based on the following formula:

$$\text{GPA} = \frac{\sum (\text{Grade Points} \times \text{Credits})}{\sum \text{Credits}}$$

17.6. CONDITIONS OF AWARDS

3.5.(1) The awards for NTA level 4 and 5 shall be granted to a candidate who has completed and passed all prescribed modules at grade A, B or C and has obtained a GPA of 2.0 or above and has completed the required audit credits of the programme.

3.5(2) The awards for the NTA level 6, 7 and 8 shall be granted to a candidate who has completed and passed all prescribed modules at grade A, B+ , B or C and has obtained a GPA of 2.0 or above and has completed the required audit credits of the programme.

17.7. PROGRESSION AND EXIT

3.6. A candidate shall be allowed to proceed to the next level of the study after passing all prescribed modules of the candidate's current level of study.

17.8. CERTIFICATION

3.7.(1) A candidate who fulfils the requirements for the award shall be issued an Academic Transcript and a Certificate in the respective award level.

3.7.(2) A candidate undertaking a particular NTA level and wishes to exit at a lower level shall be issued with an Academic Transcript and a certificate corresponding to the level of exit.

17.9. LOSS OF CERTIFICATE

3.8.(1) In a situation where a candidate losses an original certificate, the candidate shall seek a police loss report before the candidate can be confirmed to have pursued studies at the Institute. There will be no replacement of lost certificate a candidate will be issued confirmation letter.

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PART IV
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18.0. ADMINISTRATION AND CONDUCT OF EXAMINATIONS

Administrative responsibilities in relation to examination issues shall be observed at all times.

18.1. RESPONSIBILITIES OF THE RECTOR

4.1. The Rector shall:

- (a) Be the overall in charge of all academic and examination matters,
- (b) Chair the Examination Appeals Committee meetings,
- (c) Approve students' requests to postpone examinations as advised by Deputy Rector Academics, Research and Consultancy,
- (d) Consider and approve the postponement of examinations as proposed

by the Head of Department/School in collaboration with the Dean of Students,

- (e) Appoint External Examiners,
- (f) Be the Secretary of the Examination Board.

18.2. RESPONSIBILITIES OF DEPUTY RECTOR ACADEMICS, RESEARCH AND CONSULTANCY

4.2. The Deputy Rector Academics Research and Consultancy shall:

- (a) Be Chief Examinations Officer,
- (b) Chair the Examination Committee meetings,
- (c) Oversee the enforcement of examination regulations and procedures,
- (d) Recommend to the Rector, student's request to postpone examinations or studies,
- (e) Coordinate the development of policies related to examination issues,
- (f) Be responsible to develop a coherent realistic academic plan which advances excellence in the conduct of examinations at the Institute.

18.3. RESPONSIBILITIES OF REGISTRAR

4.3. The Responsibilities of the Registrar shall be to:

- (a) Coordinate the preparation of examination timetables,
- (b) Coordinate the preparation of prospectuses with the assistance of the Public Relations Officer and the Head of respective department/school,
- (c) Process students' admissions and registrations,
- (d) Prepare Academic Calendars,
- (e) Display the names of candidates eligible for examinations.
- (f) Prepare academic Transcripts, Certificates, and shall be
- (g) Secretary to Examination, Irregularity and Appeals Committees.

18.4. RESPONSIBILITIES OF HEAD OF DEPARTMENT /SCHOOL

4.4. The Head of Department/School shall be to:

- (a) Chair departmental meetings related to examination results so as to submit examination results to the Examination Committee,
- (b) Enforce examination rules, regulations and procedures at the respective department,
- (c) Be a custodian of all examination materials and documents as well as final marked scripts,
- (d) Post into the Student Information Management System End of Semester Examination results,

- (e) Compile examination results of the department and Submit departmental recommendations to the Examination Committee,
- (f) Propose the names of individuals to be recruited as External Examiners to the Rector,
- (g) Submit and collect examination scripts to and from external examiners respectively,
- (h) Ensure that External Examiners are remunerated accordingly,
- (i) Coordinate curriculum reviews and preparation of Assessment Plans and submit the same to NACTE after consulting the curriculum coordinator.
- (j) Identify and submit the names of best students as may be required.

18.5. CONDUCT OF EXAMINATION

- 4.5.(1) Examination shall be conducted under the supervision and control of Heads of Department/Schools,
- 4.5.(2) End of Semester Examinations (theoretical and practical) shall be assessed by Internal and External examiners,
- 4.5.(3) Individuals involved in the whole process of handling examinations shall observe secrecy and ethical practices as stipulated in the Examination Rules and Regulations and Code of Good Conduct for a Public Servant.

18.6. EXAMINATION TIME-TABLES

- 4.6.(1) Examinations shall be held as stipulated in the Institute Academic Calendar,
- 4.6. (2) Candidates who for valid reasons cannot adhere to the examination timetable shall consult Examination Officer/Departmental/School timetable Coordinators for assistance.

18.7. CONDUCT OF CANDIDATES DURING EXAMINATION

- 4.7(1) Candidates shall be in the examination rooms at least fifteen (15) minutes before the start of examinations,
- 4.7.(2) No candidate shall be allowed into the examination room after 30 minutes have lapsed,
- 4.7.(3) No candidate shall leave the examination room before 30 minutes of the examination session have lapsed,
- 4.7.(4) When an examination is in progress no candidate who intends to return to the examination room shall leave the room without an escort of an invigilator or supervisor,
- 4.7.(5) No candidate shall communicate with other candidates without the permission of an invigilator or supervisor,
- 4.7.(6) Under circumstances where a candidate is unable to sit for examination, the candidate shall submit a written request to the Rector through the

head of respective department/school before the due date of the respective examination,

- 4.7.(7) No candidates shall enter the examination room with unauthorized materials. Unauthorized material shall be: written or printed materials or notes, purses, audio or visual materials, electronic/device/ equipment including cell phones, pagers and any other device (taken as unauthorized) capable of storing text or restricted information or books,
- 4.7.(8) Students shall not carry or store near the examination room or premises any written material related to the examination in progress,
- 4.7.(9) Candidates shall wear clothes which are comfortable and can allow a smooth writing of examinations.

18.8. INFORMATION ABOUT INVIGILATORS AND SUPERVISORS

- 4.8.(1) Invigilators shall be appointed in writing by Heads of Departments/Schools. Academic Staff who taught respective module(s) shall automatically invigilate the examination in the respective module (s),
- 4.8.(2) Invigilators shall ensure there is maximum security in the examination room when examinations are in progress and shall ensure that, all books, notes or other materials including bags, brief cases, purses, mobile phones, non-authorized ICT equipment and material likely to help candidates to answer examination questions are removed outside the examination room before distributing the examination papers and answer booklets,
- 4.8.(3) Invigilators and supervisors shall ensure that no candidate gets the examination room with unauthorized materials and shall announce to such effect.

18.9. RESPONSIBILITIES OF INVIGILATOR AND SUPERVISORS

- 4.9.(1) Invigilators shall at all times abide by their invigilation responsibilities and at no time they shall be involved in any personal activity such as: mobile chatting, reading Newspapers, marking examination papers and so on,
- 4.9.(2) Upon completion of the examination session, invigilators shall submit to the Head of the Department/School a written report attached with used and unused examination answer booklets,
- 4.9.(3) Invigilators and supervisors shall ensure that, the sitting plan is adhered to and there is reasonable distance between one candidate and the other,
- 4.9.(4) Invigilators shall do random checkups so as to ensure that, unauthorized materials are not entered with the examination rooms,
- 4.9.(5) Invigilators shall ensure that, every candidate sitting for an examination signs an attendance sheet before and after the examination session,
- 4.9.(6) Invigilators shall submit a report of the conduct of the examination to the

respective Head of Department/School,

- 4.9.(7) Invigilators shall be responsible to check whether the examination room is free from unauthorized materials and before the start of examination session shall announce to candidates not to possess any unauthorized materials.

18.10. CONDUCT OF INVIGILATING

- 4.10.(1) Invigilators shall not explain a question to candidates or have conversations with candidates which can assist candidates to answer examined questions,
- 4.10.(2) Invigilators shall not leave the examination room without ensuring that, there is another Invigilator to manage the examination session,
- 4.10.(3) Invigilators shall move around the examination room so as to strategically supervise candidates.

18.11. RESPONSIBILITIES OF TEACHING STAFF

- 4.11.(1) Teaching staff shall be responsible for setting examinations of their respective module and shall set two examination papers and prepare a marking scheme or guide as per the guidelines of the respective module assessment plan.
- 4.11.(2) Teaching staff shall:
- (a) Submit examination papers and marking scheme in both hard and soft copy, and shall be done three weeks before the commencement of examinations session,
 - (b) Provide guidance on materials authorized to be used in the examination room,
 - (c) Maintain strict examination confidentiality and ensure there is no examination leakage.

18.12. RESPONSIBILITIES OF EXAMINATION MODERATORS

- 4.11.(1) Examination Moderators shall be responsible for:
- (a) Moderating examination papers and the respective marking schemes/guide,
 - (b) Ensuring that, examination questions and marking schemes/guides are in the required guidelines and standards as stipulated by the National Technical Award qualification framework prescribed by National Council for Technical Education (NACTE) and the Institute,
 - (c) Ensuring that, the curricular and assessment plan of the moderated examination question papers are relevant and are in line with the requirements as stipulated by the respective regulatory body such as TCU and/or NACTE.

18.13. RESPONSIBILITIES OF EXAMINATION MARKERS

- 4.12 Examination Markers shall be responsible for:
- (a) Marking students' examination according to Institute academic calendar,
 - (b) Reporting to the Head of Department/School any examination anomaly or any issue raising irregularity suspicion,
 - (c) Filling in accurately the marks or scores for each question on the top cover of the answer booklet, and add correctly to get the total score and submit the filled in answer booklets to the respective Head of Department/School.

18.14. RESPONSIBILITIES OF EXTERNAL EXAMINER

- 4.14 External Examiners shall be appointed on the basis of their specific expertise.
- 4.14(1) External Examiners shall be responsible for submitting to the Head of respective Department/School a report in relation to curriculum standard of coverage, examination questions setting, adequacy of assessment plan and delivery methods and consequently make recommendations on areas requiring improvement.

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PART V
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19.0. EXAMINATION RESULTS APPROVAL PROCEDURES

19.1. EXAMINATION RESULTS APPROVAL PROCEDURES

- 5.1. The Institute shall have in place an examination approval system which ensures that, the academic standards, quality and integrity of examinations are maintained and sustained. The approval system shall involve various committees.

19.2. COMPOSITION OF DEPARTMENTAL EXAMINATION COMMITTEE

- 5.2 (1) To maintain and sustain the standards, quality and integrity of examinations, Departments/Schools shall establish Departmental Examination Committees. The Committees shall be constituted by all academic staff of the respective Departments/Schools.

19.3. RESPONSIBILITIES OF DEPARTMENTAL EXAMINATION COMMITTEE

- 5.2.(2) The Departmental Examination Committee shall be answerable to the Examination Committee and shall be responsible for:

- (a) Ensuring that examinations are conducted according to the Institute Examination Rules and Regulations,
- (b) Evaluating Continuous Assessment of candidates including classroom attendance and this shall be done one (1) week before the end of semester examinations begin,
- (c) Reviewing the performance in every module of study in respect to approved curriculum,
- (d) Providing a written report containing appropriate recommendations to the Examination Committee to rectify anomalies found in any examination paper and/or curriculum,
- (e) Deliberating on recommendations made by External Examiners' in relation to examination results,
- (f) Making recommendations related to examination issues to the Examination Committee.

19.4. POSTGRADUATE COMMITTEE

5.3 (1) There shall be a Postgraduate Committee which shall be responsible for evaluating and recommending on the proper administration of Postgraduate Studies.

19.5. COMPOSITION OF THE POSTGRADUATE COMMITTEE

5.3.(2) The Postgraduate Committee shall constitute the following members:

- (a) The Deputy Rector Academics, Research and Consultancy who shall be a Chairperson,
- (b) The Director of Research, Publication and Postgraduate Studies who shall be a Secretary,
- (c) Postgraduate programme coordinators from respective Department/ Schools,
- (d) Heads of Department/Schools,
- (e) Registrar,
- (f) Curriculum Coordinator,
- (g) Quality Control and Assurance Manager,
- (h) Dean of Students,
- (i) Chief Accountant,
- (j) Postgraduate Diploma Student's Representative.

19.6. COMPOSITION OF EXAMINERS COMMITTEE

5.4.(1) The following members shall constitute the Examiners' Committee:

- (a) Deputy Rector, Academics, Research and Consultancy Chairperson,
- (b) Deputy Rector Planning, Finance and Administration,
- (c) Heads of Academic Department/School,

- (d) Internal Examiners,
- (e) External Examiners,
- (f) Two co-opted members who are not members of the Examiners Committee,
- (g) Departmental Examination Coordinators,
- (h) Registrar - Secretary.

19.7. RESPONSIBILITIES OF THE EXAMINERS' COMMITTEE

5.4.(2) The Examiners' Committee shall be responsible for:

- (a) Determining whether examination questions are set according to the assessment plan and curriculum,
- (b) Providing a platform for exchange of ideas between Internal and External examiners on the general conduct of examinations,
- (c) Reviewing examination marking and performance of students,
- (d) Deliberating on the external examiners' recommendations,
- (e) Submitting to the Examination Committee recommendations related to examination results.

19.8. COMPOSITION OF STANDING EXAMINATION IRREGULARITY

5.5.(1) The Standing Examination Irregularity Committee shall be constituted by:

- (a) Quality Control and Assurance Manager shall be the Chairperson.
- (b) The Head of Department/School of the department where the candidate involved in the examination is registered- Member,
- (c) Dean of Students - Member,
- (d) President of SONIT - Member
- (e) A member of the academic staff deemed necessary to be incorporated - Member,
- (f) Registrar - Secretary.

19.9. RESPONSIBILITIES OF THE STANDING EXAMINATION IRREGULARITY COMMITTEE

5.5.(2) The Standing Examination Irregularity Committee shall have the following responsibilities:

- (a) To investigate and confirm cases of examination irregularity so as to propose appropriate measures in accordance with Examination Regulations,
- (b) To recommend actions to be immediately taken against the candidate pending directives from the Examination Committee,
- (c) To submit recommendations to the Examination Committee on issues related to examination irregularities.

19.10. COMPOSITION EXAMINATION COMMITTEE

5.6.(1) There shall be an Examination Committee which shall constitute the following members:

- (a) Deputy Rector-Academics, Research and Consultancy shall be the Chairperson
- (a) Heads of Academic Department/School - Member,
- (b) Departmental/School Examination Coordinators - Member,
- (c) Two examination officers - Member,
- (d) Dean of Students – Member,
- (e) One appointed member of staff from every Department/School-Member
- (g) President of SONIT – Member,
- (h) SONIT Minister of Education – Member,
- (i) Registrar - Secretary.

19.11. RESPONSIBILITIES OF THE EXAMINATION COMMITTEE

5.6.(2) The Examination Committee shall be responsible for:

- (a) Deliberating on the general examination performance of students as submitted by the Departmental Examination Committee,
- (b) Deliberating and making recommendations to the Examination Board on issues pertaining to examination irregularities and/or Examination conduct,
- (c) Publishing of provisional examination results.

19.12. COMPOSITION OF EXAMINATION APPEALS COMMITTEE

5.7.(1) There shall be an Examination Appeals Committee and the following members shall constitute the Committee:

- (a) The Rector shall be the - Chairperson,
- (b) The Deputy Rector, Academics, Research and Consultancy - Member,
- (c) Deputy Rector Planning, Administration and Finance - Member,
- (d) All members of the Examination Committee - Member,
- (e) Two co-opted members who are not members of the Examination Committee Member,
- (f) Two Examination officers - Member,
- (g) Any other invited member as would be appropriate - Member,
- (h) Registrar - Secretary.

19.13. RESPONSIBILITIES OF THE EXAMINATION APPEALS COMMITTEE

5.7.(2) The Examination Appeals Committee shall be responsible for:

- (a) Scrutinizing students' appeals so as to make informed decisions,
- (b) Deliberating on issues pertaining to examination appeals and making recommendations to the Examination Board,

19.14. RESPONSIBILITIES OF THE EXAMINATION BOARD

5.8.(1) The following members shall constitute the Examination Board:

- (a) Chairman – any Member of the Governing Council provided that, is not one of the Institute's employee
- (b) Two Governing Council members from outside the Institute – Members
- (c) Deputy Rector – Academic, Research and Consultancy - Member
- (d) Deputy Rector-Planning, Administration and Finance - Member
- (e) Registrar - Member
- (f) Heads of Academic Departments – Members
- (g) Dean of Students – Member
- (h) Chairperson ASANIT – Member
- (i) Two Appointed Members from outside the Institute - Members
- (j) President SONIT - Member
- (k) Rector – Secretary

5.8.(2) The Examination Board shall be responsible for:

- (a) Approving examination results as submitted by the Examination Committee,
- (b) Deliberating on cases of examination irregularities as submitted by the Examination Committee,
- (c) Deliberating on the examination appeals as submitted by the Examination Appeals Committee,
- (d) Deliberating and approving the admission of applicants,
- (e) Deliberating and approving various academic issues as submitted by the Examination Committee,
- (f) Submitting resolutions to the Governing Council,
- (g) Ensuring that, academic standards, quality and integrity of the Institute are maintained.

19.15. DECISIONS OF THE EXAMINATION BOARD

5.8.(2) The decisions of the Examination Board made in relation to examination results shall be final and conclusive.

19.16. POWERS OF THE EXAMINATION BOARD

5.8.(3) The Examination Board is vested with powers to:

- (a) Approve the examination results and declare the awards,
- (b) Revoke academic awards and withdraw graduates' certificate if it is established that, the graduate violated Examination and Admission Regulations,

19.17. PUBLICATION OF RESULTS

5.9. (1) The Secretary of the Examination Committee shall have powers to publish provisional examination results pending the approval by the Examination Board.

5.9. (2) Provisional examination results shall contain both marks and grades of students.

5.10. Examination results shall be posted into the students' Information Management System (SIMS) where Students shall easily access the results through their personal SIMS accounts.

5.11. Final examination results for each semester which have been approved by the Examination Board shall be bound in hard copies and archived for future reference.

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PART VI
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20.0. EXAMINATION IRREGULARITY

6.1. The Institute shall not accommodate any action related to examination irregularities.

Examination irregularities shall include:

- (a) Examination leakage,
- (b) Being caught with examination questions/papers in the examination,
- (c) Plagiarism,
- (d) Entering an examination room without a valid identity card.

20.1. PROCEDURE OF HANDLING EXAMINATION IRREGULARITIES

6.2. A student involved in examination irregularities or misconducts shall be suspended from studies by the Rector pending the decision of the Examination Board.

6.2.(1) If a candidate is suspected of an examination irregularity, the following procedures shall be followed:

- (a) The invigilator(s) shall approach the candidate immediately when

an examination irregularity is noticed and shall confiscate all unauthorized materials and the candidate's answer booklet,

- (b) All confiscated materials shall be attached or pinned with the candidate's booklet,
- (c) The candidate shall be required to sign the declaration form which states the irregularity that the candidate was involved in,
- (d) Failure to sign the declaration form shall mean creating a commotion in the Examination room which is an examination violation that leads to discontinuation from studies,
- (e) The Registrar shall process and submit cases of examination irregularity to the Standing Examination Irregularity Committee,
- (f) The Standing Examination Irregularity Committee shall deliberate on the cases and submit recommendations to the Examination Committee,
- (g) Candidates involved in examination irregularities shall be suspended from studies by the Rector basing on the recommendations from the Standing Examination Irregularity Committee depending on the recommendations of the Examination Committee and the decision of the Examination Board,
- (h) If it is established that, the candidate committed an examination irregularity the Examination Board shall discontinue the candidate from studies.

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PART VII
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21.0. MISCELLINIOUS PROVISIONS

21.1. REPEAL

- 7.1 The provisions of Examination Rules and Regulations of 2011 are hereby repealed and replaced by these Regulations.

21.2 AMENDMENT AND REVIEW OF EXAMINATION REGULATIONS

- 7.2 The amendment and review of examination rules and regulations shall be done from time to time as deems necessary by the Examination Committee and shall be approved by the Examination Board and reported to the Governing Council after endorsement by the National Council for Technical Education (NACTE).

21.3. CUSTODIANSHIP

7.3 The approved examination Rules and Regulations shall be submitted to National Council for Technical Education (NACTE) for custodian.

7.4 FIRST SCHEDULE

(a) NTA LEVEL 4 AND 5

TABLE 1: SUMMARY OF GRADE, GRADE POINTS, SCORE RANGE AND THEIR DEFINITION

| GRADE | GRADE POINT | SCORE RANGE | DEFINITION |
|-------|-------------|-------------|--|
| A | 4.0 | 80%-100% | Excellent; accurate work of outstanding quality. |
| B | 3.0 | 65% - 79% | Good; sound grasp of most important goals of the module. The work is described as careful and competent. |
| C | 2.0 | 50% - 64% | Satisfactory; competence which its work is described as adequate. |
| D | 1.0 | 40% - 49% | Poor; marginal and barely satisfy the minimum requirement. |
| F | 0.0 | 0% - 39% | Fail |

(b) NTA LEVEL 6

TABLE 2: SUMMARY OF GRADE, GRADE POINTS, SCORE RANGE AND THEIR DEFINITION

| GRADE | GRADE POINT | SCORE RANGE | DEFINITION |
|-------|-------------|-------------|--|
| A | 5.0 | 75% - 100% | Excellent; work of outstanding quality, rare talent for the module and an original or incisive mind. |
| B+ | 4.0 | 65% - 74% | Very good; comprehensive accurate work, fair and comprehension of the module. |
| B | 3.0 | 55% - 64% | Good; sound grasp of most important goals of the module. The work is described as careful and competent without being distinguished. |
| C | 2.0 | 45% - 54% | Satisfactory; competence whose work is described as adequate. |
| D | 1.0 | 35% - 44% | Poor; marginal and barely satisfy the minimum requirement. |
| F | 0.0 | 0% - 34% | Fail |

(c) **NTA LEVEL 7 AND 8**

TABLE 3: SUMMARY OF GRADE, GRADE POINTS, SCORE RANGE AND THEIR DEFINITION

| GRADE | GRADE POINT | SCORE RANGE | DEFINITION |
|-------|-------------|-------------|--|
| A | 5.0 | 70 % - 100% | Excellent; work of outstanding quality, rare talent for the module and an original or incisive mind. |
| B+ | 4.0 | 60% - 69% | Very good; comprehensive accurate work, flair and comprehension of the module. |
| B | 3.0 | 50 % - 59% | Good; sound grasp of most important goals of the module. The work is described as careful and competent without being distinguished. |
| C | 2.0 | 40% - 49% | Satisfactory; competence whose work is described as adequate. |
| D | 1.0 | 35% - 39% | Poor; marginal and barely satisfy the minimum requirement. |
| F | 0.0 | 0% - 34% | Fail |

21.4 POSTGRADUATE PROGRAMMES

Postgraduate Diploma

TABLE 4: GRADING SYSTEM OF END OF EXAMINATION RESULTS AND RESEARCH REPORT

| GRADE | GRADE POINT | SCORE RANGE | DEFINITION |
|-------|-------------|--------------|------------|
| A | 5.0 | 75-100 | Excellent |
| B+ | 4.0 | 65-74 | Very Good |
| B | 3.0 | 55-64 | Good |
| C | 2.0 | 50-54 | Pass |
| F | 0.0 | Less than 50 | Fail |

The key to the grading of the semester examination results and Project/ Research is as follows:

- (a) Candidate(s) who obtains a C grade or above will be considered to have passed the Research/Project;
- (b) Candidate(s) shall be considered to have failed in a Research/Project when he/she obtains less than a C grade.
- (d) **NTA LEVEL 9**

Masters of Science in Logistics and Transport Management.

TABLE 5: SUMMARY OF GRADE, GRADE POINTS, SCORE RANGE AND THEIR DEFINITION

| GRADE | GRADE POINT | SCORE RANGE | DEFINITION |
|-------|-------------|-------------|------------|
| A | 5.0 | 70-100 | Excellent |
| B+ | 4.0 | 60-69 | Very Good |
| B | 3.0 | 50-59 | Good |
| C | 2.0 | 40-49 | Poor |
| D | 1.0 | 35-39 | Very Poor |
| F | 0.0 | 0-34 | Fail |

7.5 SECOND SCHEDULE

CLASSIFICATION OF AWARDS

(a) FOR NTA LEVEL 4 AND 5

TABLE 6: SUMMARY OF CLASSIFICATION FOR AWARDS

| CLASS OF AWARD | CUMULATIVE GPA |
|----------------|----------------|
| First Class | 3.5 - 4.0 |
| Second Class | 3.0 - 3.4 |
| Pass | 2.0 - 2.9 |

(b) FOR NTA LEVEL 6, 7 AND 8

TABLE 7: SUMMARY OF CLASSIFICATION FOR AWARD

| CLASS OF AWARD | CUMULATIVE GPA |
|--------------------|----------------|
| First Class | 4.4 - 5.0 |
| Upper Second Class | 3.5 - 4.3 |
| Lower Second Class | 2.7 - 3.4 |
| Pass | 2.0 - 2.6 |

(c) FOR NTA LEVEL 9

TABLE 8: SUMMARY OF CLASSIFICATION FOR AWARD

| CLASS OF AWARD | CUMULATIVE GPA |
|--------------------|----------------|
| First Class | 4.4 - 5.0 |
| Upper Second Class | 3.5 - 4.3 |
| Lower Second Class | 3.0 - 3.4 |

7.6 THIRD SCHEDULE

(a) TYPES OF EXAMINATION IRREGULARITIES AND APPLIED PUNISHMENT

TABLE 9: SUMMARY OF EXAMINATION IRREGULARITIES AND THEIR PENALTIES

| S/NO | EXAMINATION IRREGULARITY | PENALTY |
|------|---|---|
| 1 | Caught with the examination question(s)/ paper(s) before sitting for the examination. | Nullification of the candidates' respective examination. |
| 2 | Possession of an unauthorized material in the examination room such as books, notes, mobile phones, pagers or any other device (other than an approved device) capable of storing text or restricted information and pieces of written paper/printed materials. | (i) Nullification of the candidate's examination results at the level of study. (ii) Discontinuation from studies for a period of six (6) semesters. |
| 3 | Rendering or receiving assistance to or from another candidate in solving questions or part of it during the examination session | (i) Nullification of the candidate's examination results at the level of study. (ii) Discontinuation from studies for a period of six (6) semesters. |
| 4 | Communicating with other candidate's, inside and/or outside the examination room when the examination is in progress without permission from the invigilator(s) or supervisor(s). | (i) Nullification of the candidate's examination results at the level of study (ii) Discontinuation from studies for a period of six (6) semesters. |
| 5 | Removing examination answer booklets from the examination room or detaching the answer sheets from the booklet | (i) Nullification of the candidate's examination results at the level of study. (ii) Discontinuation from studies for a period of six (6) semesters. |
| 6 | Destroying evidence related to any suspected examination irregularity such as swallowing or attempt to swallow a note or suspected written/printed material or running away with it or causing the disappearance of such materials. | (i) Nullification of the candidate's examination results at the level of study. (ii) Discontinuation from studies for a period of six (6) semesters. |
| 7 | Found consulting a fellow candidate, books, note books or papers or any other matter found with the candidate while outside the examination room but during the examination session and before the candidate has handed over his answer booklet to the invigilator(s) or supervisor(s). | (i) Nullification of the candidate's examination results at the level of study. (ii) Discontinuation from studies for a period of six (6) semesters. |
| 8 | 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 of it or a solution of a question set in the question paper to another candidate. | (i) Nullification of the candidate's examination results at the level of study. (ii) Discontinuation from studies for a period of six (6) semesters. |

| S/NO | EXAMINATION IRREGULARITY | PENALTY |
|------|--|--|
| 9 | Possession of solution to a question set in the examination paper. | (i) Nullification of the candidate's examination results at the level of study. (ii) Discontinuation from studies for a period of six (6) semesters. |
| 10 | Hiring an agent(s) to do examination on behalf of the candidate(s) or any type of impersonation. | (i) Nullification of the candidate's examination results at the level of study. (ii) Discontinuation from studies (iii) The agent shall be reported to the police. |
| 11 | Misbehaving towards the invigilator, supervisor or fellow candidates during the examination session or using abusive language both oral and written in the answer booklet. | (i) Nullification of the candidate's examination results at the level of study. (ii) Discontinuation from studies for a period of six (6) semesters. |
| 12 | Distortion and/or violation of official arranged sitting plan in the examination room, beginning the examination before being authorized and continuing the examination after being told to stop. | (i) Nullification of examination Results at the level of study. (ii) Discontinuation from studies for a period of six (6) semesters. |
| 13 | Failure or refusal by any candidate to sign on the invigilators' report of facts sheet in any discovered irregularity. | (i) Nullification of examination results at the level of study. (ii) Discontinuation from studies for a period of six (6) semester. |
| 14 | Borrowing or exchanging of materials such as calculators, rulers, rubber and pens among candidates while the examination is in progress. | (i) Nullification of examination results at the level of study. (ii) Discontinuation from studies for a period of six (6) semester. |
| 15 | Candidate proven to have commit plagiarism in any part of examination | (i) Nullification of examination results at the level of study. (ii) Discontinuation from studies for a period of six (6) semester. |
| 16 | Entering in the examination rooms knowingly and/or negligently without a valid Institute's Identity Card. | (i) Nullification of examination results at the level of study. (ii) Discontinuation from studies for a period of six (6) Semesters. |
| 17 | Writing on examination question paper. | (i) Nullification of examination results. (ii) Discontinuation from studies for a period of six (6) semesters. |
| 18 | For cases of misconduct and/or unfair means not covered by these conducts of examination irregularities the Institute through its procedures shall determine and impose any punishment which appears to be appropriate vis-a-vis the nature of the irregularity. | The Institutes shall determine the punishment in relation to the gravity of the irregularity. |

7.7. FOURTH SCHEDULE

7.7.1. Criteria for selecting Best Students

- (i) Selection for Institutional overall best students. The best student shall:
 - (a) Have an overall GPA of not less than upper second class.
 - (b) Not have record of being involved in any type of disciplinary action.
- (ii) Selection for Departmental overall Best Students. The best student shall:
 - (a) Have an overall GPA of not less than upper second class.
 - (b) Not have record of being involved in any type of disciplinary action.
- (iii) Selection for Departmental overall best Students in respective/Specific modules shall be as follows:-
 - (a) Masters and Postgraduate not less than 75%
 - (b) Bachelor's Degrees and Higher Diploma not less than 70%
 - (c) Ordinary Diploma not less than 75%
 - (d) Basic and Technician Certificate not less than 80%.

22.0. EVALUATION CRITERIA FOR POSTGRADUATE DIPLOMA PROGRAMMES

Every postgraduate candidate shall be evaluated on two components for each module i.e. coursework which shall comprise one assignment (20%), one test (30%) and a written end of quarter Examination (50%).

- (a) Candidate (s) will be considered to have passed the examinations where he/she maintains an overall average of at least 50% in every Quarter i.e. for each subject taken and examined a student must score at least 25 marks out of 50 for the Course-Work and 25 marks out of 50 for the end of Quarter Examination;
- (b) The candidate (s) pass mark will be 50% taking both assessable components into account with a minimum score of 25 out of 50 for each component.
- (c) No absolute grade shall be assigned to a Research/Project but letter grades shall be assigned.
- (d) The key to the grading of end of Quarter Examinations and Research/Project is as follows:

Table 1: Grading system of end of Quarter Examination Results and Research Report

| S/No | Grade | Range of Marks | Weight Interpretation |
|------|-------|----------------|-----------------------|
| 1. | A | 75-100% | Excellent |
| 2. | B+ | 65-74% | Very Good |
| 3. | B | 55-64% | Good |
| 4. | C | 50-54% | Pass |
| 5. | F | Less than 50% | Fail |

- (e) Candidate (s) who obtains a letter grade of C or above will be considered to have passed the Research/Project;
- (f) Candidate (s) shall be considered to have failed in a Research/Project where he/she obtains less than a C.

23.0 REVIEW OF THESE REGULATIONS

These regulations may be reviewed from time to time as would be appropriate when need arises.

NB: Without prejudice, for the proper administration and management of these Guidelines and Regulations, the Department may make sub-regulations stipulating specific issues and requirements relevant to their exigency.

24.0 AVAILABILITY OF ESSENTIAL INFRASTRUCTURE

24.1. Available Physical Facilities

The National Institute of Transport has the following physical facilities to enable it carry out its activities:

- (a) Classrooms
- (b) A Library
- (c) A Cafeteria
- (d) A Dispensary/Health Centre
- (e) Students Halls of residence
- (f) Academic staff offices
- (g) Mosque
- (h) Recreation facilities football playground and basketball, volleyball, pool table etc.
- (i) A Training Workshop
- (j) A Computer Laboratory
- (k) A Learning Resource Unit

24.2. Descriptions of some of the Physical Facilities

24.2.1. The Library

The Institute has a library which accommodates a variety of books, journals, periodicals and other items such as newspapers and unpublished materials. The library has an outstanding collection in relation to transport education and could be one of the best in Tanzania.

Being one of the most important facilitations in the Institution, the Library is a centre of knowledge creation and development and a centre of learning.

The Library therefore provides the following services:

- Collection development (Acquisitions)

- Processing and packaging information needs for students, staff and NIT community Information dissemination process.
- Maintaining both card catalogues and the online catalogue (WEB LIS).

24.2.2. Cafeteria

The Institute has privatized the catering services and some meals on a cafeteria service system are served. All customers are required to pay cash at the counter. Also meals can be prepared and served on a pre-arranged agreement.

24.2.3. Dispensary/Health Centre/Hospital

The Institute has a Dispensary where the services of a medical officer are available for students, members of NIT Staff and their families and any person who is a member of the National Health Insurance Fund. Students and members of staff and their families also get medical services from government and private hospitals which provide the services to members of the fund.

24.2.4. Students' Halls of Residence

Students are housed in two buildings i.e. Nyerere and Moringe Halls of Residence. The capacity of these two buildings is limited to only 250 residents at any one moment for both females and males. With assistance from the Dean of Students, students are advised to arrange for accommodation outside the Institute.

24.2.5. Playgrounds

Games and sports are organized by the Office of the Dean of Students. All students are encouraged to participate in sports and games and are eligible to take part in sport events and competitions such as inter-hall and interim institutional competitions. Currently there are playgrounds for football, volleyball and Netball.

24.2.6. Mosque

The Institute has a mosque for Muslims which can accommodate up to fifty (50) persons at any one time. For Christians, churches exist within the neighborhood.

24.2.7. Training Workshops

The workshop provides facilities for practical training of Automobile Technicians in automobiles systems and components repairs and maintenance. Graduates through the workshops are able to gain necessary practical skills to enable them to undertake diagnosis, repairs and maintenance challenges associated with modern and contemporary vehicles. The critical skills gained through the workshop practices include engine overhaul, wheel alignment, panel beating and spraying, nozzle and injector pump servicing.

The workshop is expected to launch a comprehensive Vehicle Road Worthiness testing services using modern facilities for brake testing, wheel sideslip tester alignment, head light tests, axle-load and body dimensions, under body inspection and emission control tests.

25.0. STUDENT BY-LAWS

These rules have been drafted under the authority of and approved by the Governing Council of the National Institute of Transport. The Rector is responsible to the Council for ensuring their observance. Rules 1-2 apply in particular to students residing in the Institute campus during semester time and vacation alike. Rules 3-8 apply to all students who are residents. The rules are:

25.1. Out of Bound and Guests

- (a) Students are required to be on the campus not later than 11.00 pm.
- (b) Students may entertain visitors in their rooms between 2.00 p.m. and 10.00 p.m. on weekdays, and between 9.00 a.m. and 10.00 p.m. on weekends and holidays.
- (c) Students wishing to take visitors into Institute's buildings other than the halls of residence must obtain prior permission from the relevant Institute authority.

Leave of Absence

Students may obtain leave of absence of up to 10 days during a semester time on application to the Dean of Students. Such application should be accompanied with written approval of the student's Head of Department.

Any leave longer than 10 days shall need the approval of the Rector.

No student shall absent oneself from the Institute during semester time without permission as under this rule.

25.2. Driving of Self Propelled Vehicles

Any Student wishing to keep and drive a motor vehicle (including scooters and motor cycles) on the Institute campus must first register the vehicle with the Transport Officer.

- (a) Registration must include the production for inspection of:
 - (i) The motor vehicle registration number,
 - (ii) The motor vehicle road license,
 - (iii) The current certificate of insurance where requested, certificate of road worthiness.
 - (iv) Such registration must be renewed annually.
- (b) At the time of registration of the motor vehicle the students must also produce a clean current driving license for inspection in one's own name.
- (c) A student's rights to drive a motor vehicle on the Institute campus may be withdrawn after any driving regarded by the Institute's Administration as reckless or dangerous.

25.3. Paid Employment

No student may undertake paid employment of any kind or attend courses offered by other Institutes during semester time without prior permission from the Rector. Assurance will need to be provided that the student's academic work will not suffer through such employment.

25.4. Students' Conduct

The Institute is concerned with students' conduct both on and outside the Institute Campus, and reserves the right to take disciplinary action in respect of any misconduct, whether it occurs on or off the campus by referring to the Student By-Laws 2012.

25.4.1. Damages to and Losses of Institute's property

Students shall report without delay, loss and damages whether accidental or otherwise directly to the appropriate officer in charge of the section.

The cost of replacement of any loss or damage to the Institute's property arising out of malicious, reckless or negligent act shall be borne by the student(s) concerned.

Where damage or loss is caused by student whose identities are not known the cost of repair or replacement shall be shared by all the students involved.

25.4.2. Student's Debts to the Institute

Any student who has outstanding debts to the Institute out of either credits or loss or damage of property of the Institute, shall not be allowed to sit for the semester examinations unless he/she clears the debt or enters into written agreement with the Institute that he/she will clear the debt after the examinations. Any damage or loss caused during and after the last semester examination(s) will have to be settled before the results of the last examination (s) are released to the student and employer, in case the liability exceeds the amount of caution money.

25.4.3. Smoking

Smoking is not permitted in the Library or elsewhere during lectures, seminars and laboratory classes, or in any other places that will be specified by the Deputy Rector – Planning, Financial Administration from time to time.

25.4.4. Telephone

Institute's telephone may not be used for students' private calls.

25.4.5. Institute's Transport Services

No student may use Institute's transport services for his or her own private purposes; provided that where it is necessary for a student to receive urgent medical attention, the use of Institute's transport may be authorized.

Officials of the student's union or of student's societies or clubs may, with prior written permission from the Transport Officer, make use of the Institute's transport in accordance with conditions specified by the Transport Officer.

25.4.6. Residence

Students are expected to live in the Institute's halls of residence or off campus as conditions shall determine.

25.4.7. Student Rooms

Students are required to take good care of the rooms they occupy. They are responsible for the daily cleaning of these rooms. Students may not fix nails or paper on the walls of their rooms.

They may not move furniture from other parts of the Institute premises into their own rooms or furniture from their own rooms into other parts of the Institute premises. A student wishing to supplement the furniture or furnishings provided by the Institute in his/her own rooms may do so only after obtaining the prior consent of the DR-PFA. A student wishing to have an outside material installed must consult the DR-PFA who will arrange for the work to be done. No electrical appliances other than reading-lamp, electric razor, hair dryer, radio or record players may be used in the student's rooms. It should be noted that plug points are on the lighting circuits, and will not take power appliances without damage. Students should report to the Deputy Rector Planning Finance and Administration (DR PFA) without delay any damage (whether accidental or otherwise).

25.4.8. Musical Instruments and Noise

Musical instruments (i.e. record-players, radio sets and instruments which students play), must not be used in the Institute's premises between the hours of 11.15p.m. and 7.00 a.m.

At no time must musical instruments be played with excessive noise.

Any noise or disorderly conduct that could cause inconvenience to other students will be regarded as an offence.

25.4.9. Vacation of Residence

Permission to stay in the halls of residence during vacation is in every case contingent upon the payment in advance of all residence charges at the rate currently in force as stated in Student By-Laws 2012, Chapter 1.5 section (1) and (2).

25.4.10. Institute's Staff

The services of members of the Institute's staff (including the staff of the student's union premises) may not be used by students either in personal or in an official capacity without authorization of the Deputy Rector Planning, Finance and Administration.

25.4.11. Correspondence

The Rector or the person to whom this power has been delegated by him is the only spokesman for the Institute.

An individual student may write to or otherwise communicate with the press only in his individual capacity and shall clearly sign so.

Students may not write to or communicate with a foreign government representative here or abroad and our mission abroad provided that the Rector can arrange to communicate with foreign governments and representatives and our mission abroad on behalf of the students in case of necessity.

25.4.12. Students' Marriages

Married students, like any other students, shall be required to comply with the Institute's students' rules and regulations.

No separate family accommodation shall be provided by the Institute to married couples.

25.5. STUDENTS' DISCIPLINARY COMMITTEE

25.5.1. Functions of the Students' Disciplinary Committee

The Students' Disciplinary Committee shall investigate and hear charges of misconduct against students, save for misconduct relating exclusively to examination matters.

25.5.2. Composition of the Students' Disciplinary Committee

The Student Disciplinary Committee shall consist of the following persons:

- (a) The Deputy Rector Planning Finance and Administration who shall be the Chairman;
- (b) The Registrar;
- (c) The Head of the Department in which the student concerned is studying;
- (d) The Chairman of Academic Staff Association;
- (e) President of Students' Organization; or his/her representative
- (f) A Law Staff member (if any);
- (g) The Dean of Students shall be the secretary of the committee.
- (h) Any other member or members of staff to be appointed by the Rector as the situation permits.

25.5.3. Notice to Accused Student

For the purpose of a hearing by the Students' Disciplinary Committee, the Dean of Students (the Disciplinary Committee) shall, in consultation with the staff member referred to in paragraph 5.10 (in so far as it is applicable) prior to the date of the hearing give the accused student at least 'two (2) or five (5) working days as specified in paragraph 4.5' written notice of the date, time and place appointed for his appearance before the Students' Disciplinary Committee, together with a statement informing him of:-

- (a) The charge against him and giving adequate particulars of his alleged misconduct;

- (b) His right to;
 - (i) Attend the hearing when evidence is led and arguments are adduced;
 - (ii) Answer to the charge in writing at least four working days before the hearing;
 - (iii) Be assisted, if he is a minor, by his parent or guardian or, at the discretion of the Students' Disciplinary Committee, by any other person appointed by such parent or guardian; and
 - (iv) Be represented by a staff member appointed by the accused student if he so wishes.

25.5.4. Notice of Urgency

In an urgency situation, the period of the notice for the accused student to respond and appear before the Disciplinary Committee can be shortened to a shorter period as the situation dictates.

25.5.5. Rights of the accused Student and Powers of the Prosecutor

- (a) The accused student shall have the right to:
 - (i) Examine any written documentation, or acceptable copies thereof, which relate to the hearing and, subject to such conditions as may be laid down by the Dean of students or a person authorized by him, any other exhibit;
 - (ii) Give evidence himself/herself;
 - (iii) Call witnesses or have them called by the person assisting him;
 - (iv) Examine, or have examined, the witness (es) testifying against him;
 - (v) Re-examine, or have re-examined, his own witness (es);
 - (vi) Argue his own case or have it argued after all the evidence has been led; and/or
 - (vii) Lead evidence in mitigation of any disciplinary measure(s);
 - (viii) Address the Student Disciplinary Committee, or have it addressed, on any disciplinary measure(s) which may be imposed upon him in terms of paragraph 6.6.
- (b) The person conducting a disciplinary case against an accused student or the prosecutor referred to in paragraph 5.10 may:-
 - (i) Call witnesses and examine and re-examine the witness(es) giving evidence against the accused student;
 - (ii) Examine the accused student, if he gave evidence, as well as any other person who testified on behalf of the accused student; and
 - (iii) Argue the disciplinary case after all the evidence have been read, but before the accused student has been given the opportunity to argue his own case or to have it argued by the person assisting him.

25.5.6. Disciplinary Measures

- (a) Deprivation of a right or privilege resulting from his enrolment as a student at the Institute that is summary dismissal /de-registration from studies and not be allowed for re-enroll with the Institute for at least two years,
- (b) Suspension of the period to be determined by the Rector which will not be less than one month but not more than 12 months,
- (c) A written reprimand and/or warning,
- (d) A fine amounting to not more than twice the annual tuition fee for a full respect course he is pursuing,
- (e) Payment of compensation or the reparation of damage caused by his misconduct,
- (f) Denial of the right or privilege to register for a particular study unit or units, and/or the withdrawal of a credit or credits obtained in a study unit or units,
- (g) Denial of the privilege to register again as a student at the Institute for particular period,
- (h) Any other disciplinary measure which the Students' Disciplinary Committee deems suitable in the particular circumstances,
- (i) Provided that if a student is temporarily or permanently deprived in terms of this code of a right or privilege which he enjoys as a student or if he is temporarily or permanently denied admission to the Institute, such student shall forfeit any claim for repayment, reduction or remission of moneys related to fees/admission process paid or payable to the Institute.

25.5.7. Student's Disciplinary Actions on Criminal Acts

- (a) Where a Student commits a Criminal act, the Disciplinary Committee shall on consultation with the Institute management convene a meeting to establish whether the act committed by a student is a criminal or not and if it is a criminal whether the Institute should wholly surrender the case to the relevant legal authorities or proceed pursuing the case on a part of misconduct aspect,
- (b) For the purpose of this provision, a criminal act shall be defined as: - all those acts which violate the Penal Code Act Cap 16 or any other law that provide for Criminal acts,
- (c) Where it is established that a student has committed a crime, the Management shall report the matter to the Police force for necessary action, notwithstanding that the Institute will not be barred to continue with internal disciplinary proceeding as deems appropriate,
- (d) The Management shall immediately suspend the student from studying pending investigation, and conclusive determination by Court of Law.

25.5.8. Students' Disciplinary Appeals Committee

The Institute shall have the Disciplinary Appeals Committee.

25.5.9. Functions of the Committee

Appeals against findings of a disciplinary committee shall be heard by the Disciplinary Appeals Committee and shall be disposed off with the provisions contained in this chapter.

25.5.10. Composition of the Disciplinary Appeals Committee

The Disciplinary Appeals Committee shall consist of the following persons:

- (a) The Chairman of the Disciplinary Appeals Committee shall be the Rector.
- (b) The Deputy Rector Planning, Finance and Administration shall be the Secretary;
- (c) The Deputy Rector Academic Research and Consultancy;
- (d) The Chairman of Academic Staff Association;
- (e) The President of Students' Organization;
- (f) Two members from Institutions of Higher Learning nominated by the Rector.
- (g) Two other senior members of staff not present in the first disciplinary committee preferably a Lawyer to be included.

Note: The majority of members to this committee are not members of the disciplinary committee which tried the student concerned.

25.5.11. General procedures of conducting Appeals Committee

- (a) A student who has been found guilty of misconduct may, within 14 days of being informed in writing of the findings of the disciplinary committee concerned, appeal to the Disciplinary Appeals Committee by lodging a written notice of appeal with the Rector and shall pay a fee to be determined by the Rector; Provided that a student who has been found guilty of misconduct after having pleaded guilty to the charge against him shall have no right of appeal in the notice of appeal. The appeals fee shall be reviewed from time to time,
- (b) On receipt of a notice of appeal a copy of such notice shall be forwarded to the Chairman of the disciplinary committee that heard the charge, where upon the disciplinary committee, where necessary with the assistance of the person referred to in paragraph 5.10, may within a reasonable period draw up a reply to the grounds for appeal and submit it to the Chairman of the Disciplinary Appeals Committee,
- (c) An appeal shall be heard solely on the grounds of the record of the hearing concerned, together with any document(s) and exhibit(s) placed before the disciplinary committee concerned in the course of the hearing, except where the appeal is based on a material irregularity that is alleged to have occurred in the cause of the proceedings but does not appear as such from the record,

- (d) For the purposes of an appeal the appellant, or the person assisting him, or any other person allowed by the Disciplinary Appeals Committee, or the disciplinary committee concerned, may make written or with the leave of the Disciplinary Appeals Committee, verbal representations to the Disciplinary Appeals Committee.
- (e) After considering an appeal, the Disciplinary Appeals Committee may uphold it either wholly or in part and set aside or amend the decision of the disciplinary committee concerned, or may disallow the appeal and confirm the decision either wholly or in part, or, before reaching a final decision concerning the appeal, refer any question pertaining to the hearing back to the disciplinary committee concerned and order that a report be submitted. The disciplinary measure imposed by the disciplinary committee shall not, however, be increased, unless the Disciplinary Appeals Committee has given the student found guilty of misconduct prior and reasonable written notice of its intention to do so and has considered the appellant's written representations, if any, in this regard,
- (f) After disposing of an appeal the Disciplinary Appeals Committee shall submit a report to the Council and, if it deems necessary, to the Executive Committee of the Management for their information.

25.5.12. Disclosure of Findings

The provisions of paragraph 8.6 shall apply mutatis mutandis to the disclosure of a finding of the Disciplinary Appeals Committee.

26.0. Centre for Professional Development (CPD)

The centre is responsible for administering and managing evening classes, professional development programmes part-time programmes, tailor-made courses, seminars, short courses, and workshops.

The CPD offers the courses that are scheduled to make it possible for employees to attend and complete them on a part-time basis or during the evening sessions. The centre plays a leading role in opening up opportunities for working Tanzanians, business people and other interested nationals to further their education and training.

The centre co-ordinates initiatives by individuals of the academic staff and non-academic but professionally sound staff to conduct the continuing education programmes in various areas including transport and logistics, automobile engineering, freight clearing and forwarding, human resources management, procurement and supply, business administration and entrepreneurship.

26.1 Cargo Tallying for International Shipping Course

(a) Aims of this Course

A program is designed to provide participants with knowledge and soft skills in effective Cargo Tallying for International Shipping and develop attitude of working effectively with integrity under minimum supervision.

(b) Entry Qualifications

Minimum four (4) passes at D grade in any subjects excluding religious subjects in CSEE.

(c) Duration of the Course

This course lasts for ten (10) weeks which comprises of four (4) weeks for theory and five (5) weeks for practical training as well as one (1) week for final examinations. The total contact hours for the course are 220 hours where there are six modules with 20 contact hours each making a total of 120 hours and Cargo Tallying Operations Practical has 100 contact hours.

(d) Course Modules

- (i) Cargo Tallying Operations Theory
- (ii) Shipping Agency Documentation
- (iii) International Shipping Business Environment
- (iv) Ship descriptions.
- (v) Basic Shipping Agency Statistics
- (vi) Integrity Aspects.
- (vii) Cargo Tallying Operations Practical

(e) Course Fees

Tuition fees for the course is **Tshs. 450,000/=** per participant for the morning session, and **Tshs. 600,000/=** per participant for the evening session.

26.2. Automobile Workshop Services

The Workshop provides automotive repairs and maintenance services to the Institute's vehicles and for the public vehicles at large at reasonable fees. Some of the services provided by this Workshop include engine overhaul, wheel alignment, panel beating and spraying, nozzle and injector pump servicing.

The Workshop is expected to launch a comprehensive Vehicle Road Worthiness Testing Services using modern facilities for brake testing, wheel sideslip tester alignment, head light tests, axle-load and body dimensions, under body inspection and emission control tests

26.3 Drivers and Transport Officers Course

- (a) Objective:** To impart knowledge and skills to participants so as to enable them to operate and supervise vehicle operations effectively and efficiently.
- (b) Duration:** Four weeks

27.0 FEE STRUCTURE FOR VARIOUS PROGRAMMES ACADEMIC YEAR 2021/2022

27.1. FEE STRUCTURE FOR CERTIFICATE AND DIPLOMA (NTA LEVELS 4 – 6) PROGRAMMES

1. Logistics and Transport Management
2. Freight Clearing and Forwarding
3. Business Administration
4. Human Resource Management
5. Procurement and Logistics Management
6. Accounting and Transport Finance
7. Marketing and Public Relation
8. Shipping and Port Logistics Operations
9. Road and Railway Logistics Operations
10. Records Archives and Information Management
11. Library Information Management.

27.1.1. Local Students

(a) Direct Payment to the Institute (TZS)

| SNo | Item | NTA Level 4 | NTA Level 5 | NTA Level 6 |
|------------------|---|---------------------|---------------------|---------------------|
| 1. | Tuition Fee | 770,000.00 | 770,000.00 | 820,000.00 |
| 2. | Institute Examination Fee | 40,000.00 | 40,000.00 | 40,000.00 |
| 3. | NACTE Examination Fee | 15,000.00 | 15,000.00 | 15,000.00 |
| 4. | Students' Organization (SONIT) Fee | 10,000.00 | 10,000.00 | 10,000.00 |
| 5. | Registration Fee | 20,000.00 | 20,000.00 | 20,000.00 |
| 6. | Identity Card | 20,000.00 | 20,000.00 | 20,000.00 |
| 7. | Library Membership Fee | 15,000.00 | 15,000.00 | 15,000.00 |
| 8. | Sport and Games | 10,000.00 | 10,000.00 | 10,000.00 |
| 9. | *Certificate and Examination Results Transcript | - | - | 50,000.00 |
| 10. | Field Work Supervision | 100,000.00 | 100,000.00 | - |
| SUB-TOTAL | | 1,000,000.00 | 1,000,000.00 | 1,000,000.00 |

(b) Payments to Student (TZS)

| SNo | Item | NTA Level 4 | NTA Level 5 | NTA Level 6 |
|-----|---------------------------------|--------------|--------------|--------------|
| 1. | Field Work (10,000/= x 56 Days) | 560,000.00 | 560,000.00 | - |
| 2. | Books and Stationery Allowance | 200,000.00 | 200,000.00 | 200,000.00 |
| 3. | Meals (8500 x 252Days) | 2,142,000.00 | 2,142,000.00 | 2,142,000.00 |
| 4. | *Accommodation (252 Days) | 200,000.00 | 200,000.00 | 200,000.00 |
| 5. | Calculator | 25,000.00 | 25,000.00 | 25,000.00 |

| | | | | |
|------------------|--------------------------|---------------------|---------------------|---------------------|
| 6. | **Health Insurance Cover | 50,400.00 | 50,400.00 | 50,400.00 |
| SUB-TOTAL | | 3,177,400.00 | 3,177,400.00 | 2,617,400.00 |
| TOTAL | | 4,177,400.00 | 4,177,400.00 | 3,617,400.00 |

NOTE:

* Figure applicable for those who will be accommodated at the Institute residential halls

** Health Insurance Cover: Is mandatory should be paid in the Institute account

27.1.2. Foreign Students

(a) Direct payments to the Institute (USD)

| SNo | Item | NTA Level 4 | NTA Level 5 | NTA Level 6 |
|------------------|---|-----------------|-----------------|-----------------|
| 1. | Tuition Fee | 1,760.00 | 1,760.00 | 1,770.00 |
| 2. | Institute Examination Fee | 40.00 | 40.00 | 40.00 |
| 3. | NACTE Examination Fee | 30.00 | 30.00 | 30.00 |
| 4. | Students' Organization (SONIT) Fee | 15.00 | 15.00 | 15.00 |
| 5. | Registration Fee | 45.00 | 45.00 | 45.00 |
| 6. | Identity Card | 20.00 | 20.00 | 20.00 |
| 7. | Library Membership Fee | 20.00 | 20.00 | 20.00 |
| 8. | Sport and Games | 10.00 | 10.00 | 10.00 |
| 9. | *Certificate and Examination Results Transcript | | | 50.00 |
| 10. | Field Work Supervision | 60.00 | 60.00 | |
| SUB-TOTAL | | 2,000.00 | 2,000.00 | 2,000.00 |

(b) Direct Payments to the Student (USD)

| SNo | Item | NTA Level 4 | NTA Level 5 | NTA Level 6 |
|------------------|-----------------------------------|-----------------|-----------------|-----------------|
| 1. | Vacation Allowance | 720.00 | 720.00 | 720.00 |
| 2. | Stipend (12 x52 Weeks) | 624.00 | 624.00 | 624.00 |
| 3. | *Field Work (\$ 15x 56 Days) | 840.00 | 840.00 | - |
| 4. | Books and Stationery Allowance | 155.00 | 155.00 | 155.00 |
| 5. | ** Meals (\$10 x 252 Days) | 2,520.00 | 2,520.00 | 2,520.00 |
| 6. | ** Accommodation (\$ 5 x252 Days) | 1,260.00 | 1,260.00 | 1,260.00 |
| 7. | Resident Class C Permit | 120.00 | - | - |
| 8. | ***Health Insurance Cover | 40.00 | 40.00 | 40.00 |
| SUB-TOTAL | | 6,279.00 | 6,159.00 | 5,319.00 |
| TOTAL | | 8,279.00 | 8,159.00 | 7,319.00 |

NOTE:

*Minimum recommended figure.

** Figure applicable for those who will be accommodated at the Institute and USD per current exchange rate.

***Health Insurance Cover: Is mandatory should be paid in the Institute account.

27.2. FEE STRUCTURE FOR CERTIFICATE AND ORDINARY DIPLOMA (NTA LEVELS 4-6) PROGRAMMES

1. Automobile Engineering
2. Mechanical Engineering
3. Information Technology
4. Electronics and Telecommunication Engineering
5. Electrical Engineering
6. Pipe Works Oil And Gas Engineering
7. Shipbuilding and Repair
8. Auto Electrical and Electronic Engineering

27.2.1. Local Students

(a) Direct Payment to the Institute (TZS)

| SNo | Item | NTA Level 4 | NTA Level 5 | NTA Level 6 |
|------------------|--|---------------------|---------------------|---------------------|
| 1. | Tuition Fee | 770,000.00 | 770,000.00 | 720,000.00 |
| 2. | Institute Examination Fee | 40,000.00 | 40,000.00 | 40,000.00 |
| 3. | NACTE Examination Fee | 15,000.00 | 15,000.00 | 15,000.00 |
| 4. | Students' Organization (SONIT) Fee | 10,000.00 | 10,000.00 | 10,000.00 |
| 5. | Registration Fee | 20,000.00 | 20,000.00 | 20,000.00 |
| 6. | Identity Card | 20,000.00 | 20,000.00 | 20,000.00 |
| 7. | Library Membership Fee | 15,000.00 | 15,000.00 | 15,000.00 |
| 8. | Sports and Games | 10,000.00 | 10,000.00 | 10,000.00 |
| 9. | Certificate and Examination Results Transcript | - | - | 50,000.00 |
| 10. | Final Project | - | - | 100,000.00 |
| 11. | Field Work Supervision | 100,000.00 | 100,000.00 | - |
| SUB-TOTAL | | 1,000,000.00 | 1,000,000.00 | 1,000,000.00 |

(b) Direct Payments to the Student (TZS)

| SNo | Item | NTA Level 4 | NTA Level 5 | NTA Level 6 |
|------------------|---------------------------------|---------------------|---------------------|---------------------|
| 1. | Field Work (10,000/= x 56 Days) | 560,000.00 | 560,000.00 | - |
| 2. | Books and Stationery Allowance | 200,000.00 | 200,000.00 | 200,000.00 |
| 3. | Meals (8500 x 252Days) | 2,142,000.00 | 2,142,000.00 | 2,142,000.00 |
| 4. | *Accommodation(252 Days) | 200,000.00 | 200,000.00 | 200,000.00 |
| 5. | Scientific Calculator | 75,000.00 | 75,000.00 | 75,000.00 |
| 6. | **Health Insurance Cover | 50,400.00 | 50,400.00 | 50,400.00 |
| 7. | Project | - | - | 400,000.00 |
| SUB-TOTAL | | 3,227,400.00 | 3,227,400.00 | 3,067,400.00 |
| TOTAL | | 4,277,400.00 | 4,277,400.00 | 4,067,400.00 |

NOTE:

* Figure applicable for those who will be accommodated at the Institute residential halls.

** Health Insurance Cover: Is mandatory should be paid in the Institute account

27.2.2. Foreign Students

(a) Direct payments to the Institute (USD)

| SNo | Item | NTA Level 4 | NTA Level 5 | NTA Level 6 |
|------------------|--|-----------------|-----------------|-----------------|
| 1. | Tuition Fee | 1,760.00 | 1,760.00 | 1,770.00 |
| 2. | Institute Examination Fee | 40.00 | 40.00 | 40.00 |
| 3. | NACTE Examination Fee | 30.00 | 30.00 | 30.00 |
| 4. | Students' Organization (SONIT) Fee | 15.00 | 15.00 | 15.00 |
| 5. | Registration Fee | 45.00 | 45.00 | 45.00 |
| 6. | Identity Card | 20.00 | 20.00 | 20.00 |
| 7. | Library Membership Fee | 20.00 | 20.00 | 20.00 |
| 8. | Sport and Games | 10.00 | 10.00 | 10.00 |
| 9. | Certificate and Examination Results Transcript | - | - | 50.00 |
| 10. | Field Work Supervision | 60.00 | 60.00 | - |
| SUB-TOTAL | | 2,000.00 | 2,000.00 | 2,000.00 |

(b) Direct Payments to the Student (USD)

| SNo | Item | NTA Level 4 | NTA Level 5 | NTA Level 6 |
|-----------------|-----------------------------------|-----------------|-----------------|-----------------|
| 1. | Vacation Allowance | 720.00 | 720.00 | 720.00 |
| 2. | Stipend (12 x52 Weeks) | 624.00 | 624.00 | 624.00 |
| 3. | *Field Work (\$ 15x 56 Days) | 840.00 | 840.00 | - |
| 4. | Books and Stationery Allowance | 155.00 | 155.00 | 155.00 |
| 5. | ** Meals (\$10 x 252 Days) | 2,520.00 | 2,520.00 | 2,520.00 |
| 6. | ** Accommodation (\$ 5 x252 Days) | 1,260.00 | 1,260.00 | 1,260.00 |
| 7. | Resident Class C Permit | 120.00 | - | - |
| 8. | ***Health Insurance Cover | 40.00 | 40.00 | 40.00 |
| SUBTOTAL | | 6,279.00 | 6,159.00 | 5,319.00 |
| TOTAL | | 8,279.00 | 8,159.00 | 7,319.00 |

NOTE:

* Minimum recommended figure.

**Figure applicable for those who will be accommodated at the Institute and USD as per current exchange rate

***Health Insurance Cover: Is mandatory should be paid in the Institute account.

27.3. FEE STRUCTURE FOR HIGHER DIPLOMA AND BACHELOR'S DEGREE (NTA LEVELS 7-8) PROGRAMMES

1. Bachelor's Degree in Automobile Engineering
2. Bachelor's Degree in Mechanical Engineering
3. Naval Architecture and Marine Engineering.

27.3.1. Local Students

(a) Direct Payment to the Institute in (TZS)

| S/No | Item | 1st year | 2nd year | 3rd year | 4th year |
|------------------|--|---------------------|---------------------|---------------------|---------------------|
| 1. | Tuition Fee | 1,265, 00.00 | 1,265, 00.00 | 1,265,000.00 | 1,165,000.00 |
| 2. | Institute Examination Fee | 40,000.00 | 40,000.00 | 40,000.00 | 40,000.00 |
| 3. | NACTE Examination Fee | 20,000.00 | 20,000.00 | 20,000.00 | 20,000.00 |
| 4. | Student Organization (SONIT) Fee | 10,000.00 | 10,000.00 | 10,000.00 | 10,000.00 |
| 5. | Registration Fee | 20,000.00 | 20,000.00 | 20,000.00 | 20,000.00 |
| 6. | Identity Card | 20,000.00 | 20,000.00 | 20,000.00 | 20,000.00 |
| 7. | Library Membership Fee | 15,000.00 | 15,000.00 | 15,000.00 | 15,000.00 |
| 8. | Sports and Games | 10,000.00 | 10,000.00 | 10,000.00 | 10,000.00 |
| 9. | Certificate and Examination Results Transcript | - | - | - | 50,000.00 |
| 10. | Field Work Supervision | 100,000.00 | 100,000.00 | 100,000.00 | - |
| 11. | Final Project Supervision | - | - | - | 150,000.00 |
| SUB-TOTAL | | 1,500,000.00 | 1,500,000.00 | 1,500,000.00 | 1,500,000.00 |

(b) Direct Payments to the Student in (TZS)

| S/No | Item | 1st year | 2nd year | 3rd year | 4th year |
|------------------|---------------------------------|---------------------|---------------------|---------------------|---------------------|
| 1. | *Field Work (10000/= x 56 Days) | 560, 000.00 | 560, 000.00 | 560, 000.00 | |
| 2. | Books and Stationery Allowance | 240,000.00 | 240,000.00 | 240,000.00 | 240,000.00 |
| 3. | Meals (8500 x 252 Days) | 2,142,000.00 | 2,142,000.00 | 2,142,000.00 | 2,142,000.00 |
| 4. | **Accommodation (252 Days) | 200,000.00 | 200,000.00 | 200,000.00 | 200,000.00 |
| 5. | Scientific Calculator | 75,000 | 75,000 | 75,000 | 75,000 |
| 6. | Special Requirements | 400,000.00 | 400,000.00 | 400,000.00 | 400,000.00 |
| 7. | Final Project Realization | | | | 1,000,000.00 |
| 8. | Study Tour Visit | 50,000.00 | 50,000.00 | 50,000.00 | 50,000.00 |
| 9. | ***Health Insurance Cover | 50,400.00 | 50,400.00 | 50,400.00 | 50,400.00 |
| SUB-TOTAL | | 3,717,400.00 | 3,717,400.00 | 3,717,400.00 | 4,157,400.00 |
| TOTAL | | 5,217,400.00 | 5,217,400.00 | 5,217,400.00 | 5,657,400.00 |

NOTE:

* Minimum recommended figure.

** Figure applicable for those who will be accommodated at the Institute residential halls.

** Health Insurance Cover: Is mandatory and should be paid in the Institute account.

27.3.2. Foreign Students

(a) Direct Payment to the Institute in (USD)

| S/No | Item | 1st year | 2nd year | 3rd year | 4th year |
|------------------|---|-----------------|-----------------|-----------------|-----------------|
| 1. | Tuition Fee | 2,530.00 | 2,530.00 | 2,530.00 | 2,500.00 |
| 2. | Institute examination Fee | 40.00 | 40.00 | 40.00 | 40.00 |
| 3. | NACTE Examination Fee | 25.00 | 25.00 | 25.00 | 25.00 |
| 4. | Student Organization (SONIT) Fee | 15.00 | 15.00 | 15.00 | 15.00 |
| 5. | Registration Fee | 45.00 | 45.00 | 45.00 | 45.00 |
| 6. | Identity Card | 20.00 | 20.00 | 20.00 | 20.00 |
| 7. | Library Membership Fee | 15.00 | 15.00 | 15.00 | 15.00 |
| 8. | Sports and Games | 10.00 | 10.00 | 10.00 | 10.00 |
| 9. | *Certificate and Examination Results Transcript | - | - | - | 50.00 |
| 10. | Field Work Supervision | 100.00 | 100.00 | 100.00 | - |
| 11. | Final Project Supervision | - | - | - | 80.00 |
| SUB-TOTAL | | 2,800.00 | 2,800.00 | 2,800.00 | 2,800.00 |

(b) Direct Payments to the Student in (USD)

| S/No | Item | 1st year | 2nd year | 3rd year | 4th year |
|------------------|---------------------------------|-----------------|-----------------|-----------------|-----------------|
| 1. | Vacation Allowance | 720.00 | 720.00 | 720.00 | 720.00 |
| 2. | Stipend (12 x 52 weeks) | 624.00 | 624.00 | 624.00 | 624.00 |
| 3. | *Field work (15 x 56 Days) | 840.00 | 840.00 | 840.00 | - |
| 4. | Books and Stationery | 155.00 | 155.00 | 155.00 | 155.00 |
| 5. | **Meals (10 x 252 Days) | 2,520.00 | 2,520.00 | 2,520.00 | 2,520.00 |
| 6. | **Accommodation (5 x 252 Days)) | 1,260.00 | 1,260.00 | 1,260.00 | 1,260.00 |
| 7. | Scientific Calculator | 50.00 | 50.00 | 50.00 | 50.00 |
| 8. | Resident Class C Permit | 120.00 | - | - | - |
| 9. | ***Health Insurance Cover | 40.00 | 40.00 | 40.00 | 40.00 |
| SUB-TOTAL | | 6,329.00 | 6,209.00 | 6,209.00 | 5,369.00 |
| TOTAL | | 9,129.00 | 9,009.00 | 9,009.00 | 8,169.00 |

NOTE:

* Minimum recommended figure.

** Figure applicable for those who will be accommodated at the Institute and USD as per current exchange rate.

***Health Insurance Cover: Is mandatory and should be paid in the Institute account.

27.4. FEE STRUCTURE FOR HIGHER DIPLOMA AND BACHELOR'S DEGREE (NTA LEVELS 7-8) PROGRAMMES IN:

1. Bachelor's Degree in Information Technology
2. Bachelor's Degree in Computer Science

27.4.1 Local Students

(a) Direct Payment to the Institute in (TZS)

| S/No | Item | 1st year | 2nd year | 3rd year |
|------------------|--|---------------------|---------------------|---------------------|
| 1. | Tuition Fee | 1,265, 00.00 | 1,265, 00.00 | 1,165,000.00 |
| 2. | Institute Examination Fee | 40,000.00 | 40,000.00 | 40,000.00 |
| 3. | NACTE Examination Fee | 20,000.00 | 20,000.00 | 20,000.00 |
| 4. | Student Organization (SONIT) Fee | 10,000.00 | 10,000.00 | 10,000.00 |
| 5. | Registration Fee | 20,000.00 | 20,000.00 | 20,000.00 |
| 6. | Identity Card | 20,000.00 | 20,000.00 | 20,000.00 |
| 7. | Library Membership Fee | 15,000.00 | 15,000.00 | 15,000.00 |
| 8. | Sports and Games | 10,000.00 | 10,000.00 | 10,000.00 |
| 9. | Certificate and Examination Results Transcript | - | - | 50,000.00 |
| 10. | Field Work Supervision | 100,000.00 | 100,000.00 | - |
| 11. | Final Project Supervision | - | - | 150,000.00 |
| SUB-TOTAL | | 1,500,000.00 | 1,500,000.00 | 1,500,000.00 |

(b) Direct Payments to the Student in (TZS)

| S/No | Item | 1st year | 2nd year | 3rd year |
|------------------|---------------------------------|---------------------|---------------------|---------------------|
| 1. | *Field Work (10000/= x 56 Days) | 560, 000.00 | 560, 000.00 | 560, 000.00 |
| 2. | Books and Stationery Allowance | 240,000.00 | 240,000.00 | 240,000.00 |
| 3. | Meals (8500 x 252 Days) | 2,142,000.00 | 2,142,000.00 | 2,142,000.00 |
| 4. | **Accommodation (252 Days) | 200,000.00 | 200,000.00 | 200,000.00 |
| 5. | Scientific Calculator | 75,000 | 75,000 | 75,000 |
| 6. | Special Requirements | 400,000.00 | 400,000.00 | 400,000.00 |
| 7. | Final Project Realization | - | - | 1,000,000.00 |
| 8. | Study Tour Visit | 50,000.00 | 50,000.00 | 50,000.00 |
| 9. | ***Health Insurance Cover | 50,400.00 | 50,400.00 | 50,400.00 |
| SUB-TOTAL | | 3,717,400.00 | 3,717,400.00 | 4,717,400.00 |
| TOTAL | | 5,217,400.00 | 5,217,400.00 | 6,217,400.00 |

NOTE:

* Minimum recommended figure.

** Figure applicable for those who will be accommodated at the Institute and USD as per Current exchange rate.

*** Health Insurance Cover: Is mandatory and should be paid in the Institute account

27.4.2. Foreign Students

(a) Direct Payment to the Institute in (USD)

| S/No | Item | 1st year | 2nd year | 3rd year |
|------------------|--|-----------------|-----------------|-----------------|
| 1. | Tuition Fee | 2,530.00 | 2,530.00 | 2,500.00 |
| 2. | Institute examination Fee | 40.00 | 40.00 | 40.00 |
| 3. | NACTE Examination Fee | 25.00 | 25.00 | 25.00 |
| 4. | Student Organization (SONIT) Fee | 15.00 | 15.00 | 15.00 |
| 5. | Registration Fee | 45.00 | 45.00 | 45.00 |
| 6. | Identity Card | 20.00 | 20.00 | 20.00 |
| 7. | Library Membership Fee | 15.00 | 15.00 | 15.00 |
| 8. | Sports and Games | 10.00 | 10.00 | 10.00 |
| 9. | Certificate and Examination Results Transcript | - | - | 50.00 |
| 10. | Field Work Supervision | 100.00 | 100.00 | - |
| 11. | Final Project Supervision | - | - | 80.00 |
| SUB-TOTAL | | 2,800.00 | 2,800.00 | 2,800.00 |

(b) Direct Payments to the Student in (USD)

| S/No | Item | 1st year | 2nd year | 3rd year |
|------------------|--------------------------------|-----------------|-----------------|-----------------|
| 1. | Vacation Allowance | 720.00 | 720.00 | 720.00 |
| 2. | Stipend (12 x 52 weeks) | 624.00 | 624.00 | 624.00 |
| 3. | *Field work (15 x 56 Days) | 840.00 | 840.00 | 840.00 |
| 4. | Books and Stationery | 155.00 | 155.00 | 155.00 |
| 5. | **Meals (10 x 252 Days) | 2,520.00 | 2,520.00 | 2,520.00 |
| 6. | **Accommodation (5 x 252 Days) | 1,260.00 | 1,260.00 | 1,260.00 |
| 7. | Scientific Calculator | 50.00 | 50.00 | 50.00 |
| 8. | Resident Class C Permit | 120.00 | - | - |
| 9. | ***Health Insurance Cover | 40.00 | 40.00 | 40.00 |
| SUB-TOTAL | | 6,329.00 | 6,209.00 | 6,209.00 |
| TOTAL | | 9,129.00 | 9,009.00 | 9,009.00 |

NOTE:

* Minimum recommended figure.

** Figure applicable for those who will be accommodated at the Institute and USD as per current exchange rate.

*** Health Insurance Cover: Is mandatory and should be paid in the Institute account

27.5. FEE STRUCTURE FOR HIGHER DIPLOMA & BACHELOR'S DEGREE (NTA- LEVELS 7-8) PROGRAMMES IN

1. Logistics and Transport Management
2. Shipping and Port Logistics Management
3. Road and Railway Transport Logistics Management
4. Procurement and Logistics Management
5. Business Administration
6. Human Resource Management
7. Accounting and Transport Finance
8. Marketing and Public Relation

27.5.1 Local Students

(a) Direct Payment to the Institute in (TZS)

| S/No | Item | 1st year | 2nd year | 3rd year |
|------------------|---|---------------------|---------------------|---------------------|
| 1. | Tuition Fee | 1,270,000.00 | 1,270,000.00 | 1,320,000.00 |
| 2. | Institute Examination Fee | 40,000.00 | 40,000.00 | 40,000.00 |
| 3. | NACTE Examination Fee | 15,000.00 | 15,000.00 | 15,000.00 |
| 4. | Students' Organization (SONIT) Fee | 10,000.00 | 10,000.00 | 10,000.00 |
| 5. | Registration Fee | 20,000.00 | 20,000.00 | 20,000.00 |
| 6. | Identity Card | 20,000.00 | 20,000.00 | 20,000.00 |
| 7. | Library Membership Fee | 15,000.00 | 15,000.00 | 15,000.00 |
| 8. | Sport and Games | 10,000.00 | 10,000.00 | 10,000.00 |
| 9. | *Certificate and Examination Results Transcript | - | - | 50,000.00 |
| 10. | Field Work and Research | 100,000.00 | 100,000.00 | - |
| SUB-TOTAL | | 1,500,000.00 | 1,500,000.00 | 1,500,000.00 |

(b) Direct Payments to Student in (TZS)

| S/No | Item | 1st year | 2nd year | 3rd year |
|--------------------|----------------------------------|---------------------|---------------------|---------------------|
| 1. | *Field Work (10,000/= x 56 Days) | 560,000.00 | 560,000.00 | - |
| 2. | Books and Stationery Allowance | 240,000.00 | 240,000.00 | 240,000.00 |
| 3. | Meals (8500 x 252Days) | 2,142,000.00 | 2,142,000.00 | 2,142,000.00 |
| 4. | **Accommodation (252 Days) | 200,000.00 | 200,000.00 | 200,000.00 |
| 5. | Calculator | 30,000.00 | 30,000.00 | 30,000.00 |
| 6. | Research | - | - | 100,000.00 |
| 7. | Study Tour/Visit | 50,000.00 | 50,000.00 | 50,000.00 |
| 8. | ***Health Insurance Cover | 50,400.00 | 50,400.00 | 50,400.00 |
| SUB-TOTAL | | 3,272,400.00 | 3,272,400.00 | 2,812,400.00 |
| GRAND TOTAL | | 4,772,400.00 | 4,772,400.00 | 4,312,400.00 |

NOTE: * Minimum recommended figure.

** Figure applicable for those who will be accommodated at the Institute residential halls.

*** Health Insurance Cover: Is mandatory and should be paid in the Institute account.

27.5.2 Foreign Students

(a) Direct payments to the Institute in (USD)

| S/No | Item | 1st year | 2nd year | 3rd year |
|------------------|--|-----------------|-----------------|-----------------|
| 1. | Tuition Fee | 2,530.00 | 2,530.00 | 1,320.00 |
| 2. | Institute Examination Fee | 40.00 | 40.00 | 20.00 |
| 3. | NACTE Examination Fee | 25.00 | 25.00 | 25.00 |
| 4. | Students' Organization (SONIT) Fee | 15.00 | 15.00 | 15.00 |
| 5. | Registration Fee | 45.00 | 45.00 | 45.00 |
| 6. | Identity Card | 20.00 | 20.00 | 20.00 |
| 7. | Library Membership Fee | 15.00 | 15.00 | 15.00 |
| 8. | Sport and Games | 10.00 | 10.00 | 10.00 |
| 9. | Certificate and Examination Results Transcript | - | - | 50.00 |
| 10. | Field Work Supervision | 100.00 | 100.00 | - |
| SUB-TOTAL | | 2,800.00 | 2,800.00 | 2,800.00 |

(b) Direct Payments to the Student in (USD)

| S/No | Item | 1st year | 2nd year | 3rd year |
|------------------|-----------------------------------|-----------------|-----------------|-----------------|
| 1. | Vacation Allowance | 720.00 | 720.00 | 720.00 |
| 2. | Stipend (12 x52 Weeks) | 624.00 | 624.00 | 624.00 |
| 3. | *Field Work (\$ 15x 56 Days) | 840.00 | 840.00 | - |
| 4. | Books and Stationery Allowance | 155.00 | 155.00 | 155.00 |
| 5. | ** Meals (\$10 x 252 Days) | 2,520.00 | 2,520.00 | 2,520.00 |
| 6. | ** Accommodation (\$ 5 x252 Days) | 1,260.00 | 1,260.00 | 1,260.00 |
| 7. | Resident Class C Permit | 120.00 | - | - |
| 8. | ***Health Insurance Cover | 40.00 | 40.00 | 40.00 |
| SUB-TOTAL | | 6,279.00 | 6,159.00 | 5,319.00 |
| TOTAL | | 9,079.00 | 8,959.00 | 8,119.00 |

NOTE: * Minimum recommended figure.

** Figure applicable for those who will be accommodated at the Institute and USD as per current exchange rate.

*** Health Insurance Cover: Is mandatory and should be paid in the Institute account

27.6. FEE STRUCTURE FOR BACHELOR'S DEGREE OF EDUCATION IN MATHEMATICS AND INFORMATION TECHNOLOGY (NTA LEVES 7-8)

27.6.1 Local Students

(a) Direct Payment to the Institute in (TZS)

| S/No | Item | 1st year | 2nd year | 3rd year |
|------------------|--|---------------------|---------------------|---------------------|
| 1. | Tuition Fee | 1,270,000.00 | 1,270,000.00 | 1,310,000.00 |
| 2. | Institute Examination Fee | 40,000.00 | 40,000.00 | 40,000.00 |
| 3. | NACTE Examination Fee | 15,000.00 | 15,000.00 | 15,000.00 |
| 4. | Students' Organization (SONIT) Fee | 10,000.00 | 10,000.00 | 10,000.00 |
| 5. | Registration Fee | 20,000.00 | 20,000.00 | 20,000.00 |
| 6. | Identity Card | 20,000.00 | 20,000.00 | 20,000.00 |
| 7. | Library Membership Fee | 15,000.00 | 15,000.00 | 15,000.00 |
| 8. | Sport and Games | 10,000.00 | 10,000.00 | 20,000.00 |
| 9. | Certificate and Examination Results Transcript | - | - | 50,000.00 |
| 10. | Field Work | 100,000.00 | 100,000.00 | - |
| SUB-TOTAL | | 1,500,000.00 | 1,500,000.00 | 1,500,000.00 |

(b) Direct Payments to Student in (TZS)

| S/No | Item | 1st year | 2nd year | 3rd year |
|------------------|----------------------------------|---------------------|---------------------|---------------------|
| 1. | *Field Work (10,000/= x 56 Days) | 560,000.00 | 560,000.00 | - |
| 2. | Books and Stationery Allowance | 240,000.00 | 240,000.00 | 240,000.00 |
| 3. | Meals (8500 x 252Days) | 2,142,000.00 | 2,142,000.00 | 2,142,000.00 |
| 4. | **Accommodation (252 Days) | 200,000.00 | 200,000.00 | 200,000.00 |
| 5. | Calculator | 30,000.00 | 30,000.00 | 30,000.00 |
| 6. | Special Requirements | 400,000.00 | 400,000.00 | - |
| 7. | Study Tour/Visit | 50,000.00 | 50,000.00 | 50,000.00 |
| 8. | ***Health Insurance Cover | 50,400.00 | 50,400.00 | 50,400.00 |
| SUB-TOTAL | | 3,672,400.00 | 3,672,400.00 | 2,712,400.00 |
| TOTAL | | 5,172,400.00 | 5,172,400.00 | 4,212,400.00 |

NOTE:

* Minimum recommended figure.

** Figure applicable for those who will be accommodated at the Institute residential halls.

** Health Insurance Cover: Is mandatory and should be paid in the Institute Account.

27.6.2. Foreign Students**(a) Direct payments to the Institute in USD**

| S/No | Item | 1st year | 2nd year | 3rd year |
|------------------|--|-----------------|-----------------|-----------------|
| 1. | Tuition Fee | 2,530.00 | 2,530.00 | 2,580.00 |
| 2. | Institute Examination Fee | 40.00 | 40.00 | 40.00 |
| 3. | NACTE Examination Fee | 25.00 | 25.00 | 25.00 |
| 4. | Students' Organization (SONIT) Fee | 15.00 | 15.00 | 15.00 |
| 5. | Registration Fee | 45.00 | 45.00 | 45.00 |
| 6. | Identity Card | 20.00 | 20.00 | 20.00 |
| 7. | Library Membership Fee | 15.00 | 15.00 | 15.00 |
| 8. | Sport and Games | 10.00 | 10.00 | 10.00 |
| 9. | Certificate and Examination Results Transcript | - | - | 50.00 |
| 10. | Field Work Supervision | 100.00 | 100.00 | - |
| SUB-TOTAL | | 2,800.00 | 2,800.00 | 2,800.00 |

(b) Direct Payments to the Student in USD

| S/No | Item | 1st year | 2nd year | 3rd year |
|------------------|-----------------------------------|-----------------|-----------------|-----------------|
| 1. | Vacation Allowance | 720.00 | 720.00 | 720.00 |
| 2. | Stipend (12 x52 Weeks) | 624.00 | 624.00 | 624.00 |
| 3. | *Field Work (\$ 15x 56 Days) | 840.00 | 840.00 | - |
| 4. | Books and Stationery Allowance | 155.00 | 155.00 | 155.00 |
| 5. | ** Meals (\$10 x 252 Days) | 2,520.00 | 2,520.00 | 2,520.00 |
| 6. | ** Accommodation (\$ 5 x252 Days) | 1,260.00 | 1,260.00 | 1,260.00 |
| 7. | Resident Class C Permit | 120.00 | - | - |
| 8. | ***Health Insurance Cover | 40.00 | 40.00 | 40.00 |
| SUB-TOTAL | | 6,279.00 | 6,159.00 | 5,319.00 |
| TOTAL | | 9,079.00 | 8,959.00 | 8,119.00 |

NOTE:

* Minimum recommended figure.

** Figure applicable for those who will be accommodated at the Institute and US \$ as per Current Exchange Rate.

***Health Insurance Cover: Is mandatory and should be paid in the Institute Account

27.7. CERTIFICATE AND ORDINARY DIPLOMA (NTA LEVELS 4-6) PROGRAMES IN AIRCRAFT MAINTENANCE ENGINEERING

27.7.1. Local Students

(a) Direct Payment to the Institute (TZS)

| S/No | Item | 1st year | 2nd year | 3rd year |
|------------------|---|---------------------|---------------------|---------------------|
| 1. | Tuition Fee | 4,665,000.00 | 4,665,000.00 | 4,565,000.00 |
| 2. | Institute Examination Fee | 40,000.00 | 40,000.00 | 40,000.00 |
| 3. | NACTE fee | 15,000.00 | 15,000.00 | 15,000.00 |
| 4. | Student Organization (SONIT) Fee | 10,000.00 | 10,000.00 | 10,000.00 |
| 5. | Registration Fee | 20,000.00 | 20,000.00 | 20,000.00 |
| 6. | Identity Card | 20,000.00 | 20,000.00 | 20,000.00 |
| 7. | Library Membership Fee | 30,000.00 | 30,000.00 | 30,000.00 |
| 8. | Sports and Games | 50,000.00 | 50,000.00 | 50,000.00 |
| 9. | Certificate and Examination Result Transcript | - | - | 50,000.00 |
| 10. | Final Project | - | - | 200,000.00 |
| 11. | Field work supervision | 150,000.00 | 150,000.00 | |
| SUB-TOTAL | | 5,000,000.00 | 5,000,000.00 | 5,000,000.00 |

(b) Direct Payment to the Students (TZS)

| S/No | Item | 1st year | 2nd year | 3rd year |
|------------------|---------------------------------|---------------------|---------------------|---------------------|
| 1. | Field work (15,000/= x 60 days) | 900,000.00 | 900,000.00 | - |
| 2. | Books and stationery Allowance | 300,000.00 | 300,000.00 | 300,000.00 |
| 3. | Meals (10,000 x 252Days) | 2,520,000.00 | 2,520,000.00 | 2,520,000.00 |
| 4. | *Accommodation (252 Days) | 200,000.00 | 200,000.00 | 200,000.00 |
| 5. | Scientific Calculator | 75,000.00 | 75,000.00 | 75,000.00 |
| 6. | **Health Insurance Cover | 50,400.00 | 50,400.00 | 50,400.00 |
| 7. | Special Faculty Requirement | 200,000.00 | 200,000.00 | 200,000.00 |
| 8. | Field work (20,000/= x 90days) | - | - | 600,000.00 |
| SUB-TOTAL | | 4,245,400.00 | 4,245,400.00 | 3,945,400.00 |
| TOTAL | | 9,245,400.00 | 9,245,400.00 | 8,945,400 |

27.7.2. Foreign Students

(a) Direct Payment to the Institute (USD)

| S/No | Item | 1st year | 2nd year | 3rd year |
|------------------|--|-----------------|-----------------|-----------------|
| 1. | Tuition Fee | 2,332.00 | 2,332.00 | 2257.00 |
| 2. | Institute Examination Fee | 20.00 | 20.00 | 20.00 |
| 3. | NACTE fee | 8.00 | 8.00 | 8.00 |
| 4. | Student Organization (SONIT) Fee | 5.00 | 5.00 | 5.00 |
| 5. | Registration Fee | 10.00 | 10.00 | 10.00 |
| 6. | Identity Card | 10.00 | 10.00 | 10.00 |
| 7. | Library Membership Fee | 15.00 | 15.00 | 15.00 |
| 8. | Sports and Games | 25.00 | 25.00 | 25.00 |
| 9. | *Certificate and Examination Result Transcript | - | - | 50.00 |
| 10. | Final Project | - | - | 100.00 |
| 11. | Field work supervision | 75.00 | 75.00 | - |
| SUB-TOTAL | | 2,500.00 | 2,500.00 | 2,500.00 |

(b) Direct Payment to the Student (USD)

| S/No | Item | 1st year | 2nd year | 3rd year |
|------------------|----------------------------------|-----------------|-----------------|-----------------|
| 1. | Field work (15,000)/= x 60 days) | 450.00 | 450.00 | - |
| 2. | Books and stationery Allowance | 150.00 | 150.00 | 150.00 |
| 3. | Meals (10,000 x 252Days) | 1260.00 | 1,260.00 | 1260.00 |
| 4. | *Accommodation (700 x 252 Days) | 88.00 | 88.00 | 88.00 |
| 5. | Scientific Calculator | 38.00 | 38.00 | 38.00 |
| 6. | **Health Insurance Cover | 25.00 | 25.00 | 25.00 |
| 7. | Special Faculty Requirement | 100.00 | 100.00 | 100.00 |
| 8. | Field work (20,000/= x 90days) | | | 300.00 |
| SUB-TOTAL | | 2111.00 | 2,111.00 | 1961.00 |
| TOTAL | | 4,611.00 | 4,611.00 | 4,461.00 |

27.8. FEE STRUCTURE FOR HIGHER DIPLOMA AND BACHELOR'S DEGREE (NTA LEVELS 7-8) PROGRAMMES IN AIRCRAFT MAINTENANCE ENGINEERING

27.8.1. Local Students

(a) Direct Payment to the Institute in (TZS)

| S/No | Item | 1st year | 2nd year | 3rd year | 4th year |
|------|----------------------------------|--------------|--------------|--------------|--------------|
| 1. | Tuition Fee | 5,600,000.00 | 5,600,000.00 | 5,600,000.00 | 5,500,000.00 |
| 2. | Institute Examination Fee | 30,000.00 | 30,000.00 | 30,000.00 | 30,000.00 |
| 3. | Student Organization (SONIT) Fee | 10,000.00 | 10,000.00 | 10,000.00 | 10,000.00 |
| 4. | Registration Fee | 40,000.00 | 40,000.00 | 40,000.00 | 40,000.00 |
| 5. | Identity Card | 20,000.00 | 20,000.00 | 20,000.00 | 20,000.00 |

| | | | | | |
|------------------|------------------------------------|---------------------|---------------------|---------------------|---------------------|
| 6. | Library Membership Fee | 30,000.00 | 30,000.00 | 30,000.00 | 30,000.00 |
| 7. | NACTE fee | 20,000.00 | 20,000.00 | 20,000.00 | 20,000.00 |
| 8. | Recreation | 100,000.00 | 100,000.00 | 100,000.00 | 100,000.00 |
| 9. | *Certificate and Result transcript | - | - | - | 50,000.00 |
| 10. | Field work Supervision | 150,000.00 | 150,000.00 | 150,000.00 | - |
| 11. | Final Project | - | - | - | 200,000.00 |
| SUB-TOTAL | | 6,000,000.00 | 6,000,000.00 | 6,000,000.00 | 6,000,000.00 |

(b) Direct Payment to the Student in (TZS)

| S/No | Item | 1st year | 2nd year | 3rd year | 4th year |
|------------------|--------------------------------|----------------------|----------------------|----------------------|----------------------|
| 1. | Books and stationery Allowance | 500,000.00 | 500,000.00 | 500,000.00 | 500,000.00 |
| 2. | Meals (20,000 x 252Days) | 5,040,000.00 | 5,040,000.00 | 5,040,000.00 | 5,040,000.00 |
| 3. | Accommodation | 1,800,000.00 | 1,800,000.00 | 1,800,000.00 | 1,800,000.00 |
| 4. | Special Faculty Requirement | 800,000.00 | 800,000.00 | 800,000.00 | 800,000.00 |
| 5. | Field work (20,000/= x 90days) | 1,800,000.00 | 1,800,000.00 | 1,800,000.00 | 1,800,000.00 |
| SUB-TOTAL | | 9,940,000.00 | 9,940,000.00 | 9,940,000.00 | 9,940,000.00 |
| TOTAL | | 15,940,000.00 | 15,940,000.00 | 15,940,000.00 | 15,940,000.00 |

27.8.2. Foreign Students

(a) Direct Payment to the Institute in (USD)

| S/No | Item | 1st year | 2nd year | 3rd year | 4th year |
|------------------|-----------------------------------|-----------------|-----------------|-----------------|-----------------|
| 1. | Tuition Fee | 2,875.00 | 2,875.00 | 2,875.00 | 2,850.00 |
| 2. | Institute Examination Fee | 15.00 | 15.00 | 15.00 | 15.00 |
| 3. | Student Organization (SONIT) Fee | 5.00 | 5.00 | 5.00 | 5.00 |
| 4. | Registration Fee | 20.00 | 20.00 | 20.00 | 20.00 |
| 5. | Identity Card | 10.00 | 10.00 | 10.00 | 10.00 |
| 6. | Library Membership Fee | 15.00 | 15.00 | 15.00 | 15.00 |
| 7. | NACTE fee | 10.00 | 10.00 | 10.00 | 10.00 |
| 8. | Recreation | 50.00 | 50.00 | 50.00 | 50.00 |
| 9. | Certificate and Result transcript | - | - | - | 25.00 |
| SUB-TOTAL | | 3,000.00 | 3,000.00 | 3,000.00 | 3,000.00 |

(b) Direct Payment to the Student in (USD)

| S/No | Item | 1st year | 2nd year | 3rd year | 4th year |
|------|--------------------------------|----------|----------|----------|----------|
| 1. | Books and stationery Allowance | 250 | 250 | 250 | 250 |
| 2. | Meals (10x 252Days) | 2520 | 2520 | 2520 | 2520 |
| 3. | Accommodation | 900 | 900 | 900 | 900 |

| | | | | | |
|------------------|-----------------------------|-------------|-------------|-------------|-------------|
| 4. | Special Faculty Requirement | 400 | 400 | 400 | 400 |
| 5. | Field work (10 x 90days) | 900 | 900 | 900 | 900 |
| SUB-TOTAL | | 4970 | 4970 | 4970 | 4970 |
| TOTAL | | 7970 | 7970 | 7970 | 7970 |

27.9. FEE STRUCTURE FOR POSTGRADUATE DIPLOMA PROGRAMMES

1. Logistics and Transport Management (PGLTM)
2. Transport Economics (PGTE)
3. Shipping and Port Management (PGSPM)
4. Procurement and Logistics Management
5. Transport and Tourism Management (PGTTM)
6. Air Transport Management (PGATM)
7. Rail Transport Management (PGDRTM)
8. Road Safety Management (PGDRSM)
9. Transportation Engineering (PGDTE)

27.9.1. Local Students Direct

(a) Payment to the Institute in (TZS)

| S/No | Item | Amount |
|------------------|--|---------------------|
| 1. | Tuition Fee | 3,150,000.00 |
| 2. | Examination Fee | 500,000.00 |
| 3. | Students' Organization (SONIT) Fee | 10,000.00 |
| 4. | TCU Quality Assurance Supervision | 100,000.00 |
| 5. | Registration Fee | 50,000.00 |
| 6. | Identity Card | 20,000.00 |
| 7. | Library Membership Fee | 10,000.00 |
| 8. | Sports and Games | 10,000.00 |
| 9. | Certificate and Examination Results Transcript | 50,000.00 |
| SUB-TOTAL | | 3,900,000.00 |

(b) Direct Payments to Student in (TZS)

| S/No | Item | Amount |
|--------------|------------------------------------|---------------------|
| 1. | Insurance Cover (Including Health) | 100,000.00 |
| 2. | Project Work | 500,000.00 |
| 3. | Books | 350,000.00 |
| 4. | Stationery Allowance | 100,000.00 |
| 5. | Stipend | 5,475,000.00 |
| TOTAL | | 6,525,000.00 |

27.9.2. Foreign Students

(a) Direct Payment to the Institute in (USD)

| S/No | Item | Amount |
|------------------|--|-----------------|
| 1. | Tuition Fee | 2,060.00 |
| 2. | Examination Fee (Dissertation) | 220.00 |
| 3. | Students' Organization (SONIT) Fee | 15.00 |
| 4. | TCU Quality Assurance Supervision | 50.00 |
| 5. | Registration Fee | 45.00 |
| 6. | Identity Card | 20.00 |
| 7. | Library Membership Fee | 10.00 |
| 8. | Sports and Games | 10.00 |
| 9. | Certificate and Examination Results Transcript | 50.00 |
| SUB-TOTAL | | 2,480.00 |

(b) Direct Payments to Student in (USD)

| S/No | Item | Amount |
|--------------|------------------------------------|-----------------|
| 1. | Insurance Cover (Including Health) | 65.00 |
| 2. | Project Work | 500.00 |
| 3. | Books | 220.00 |
| 4. | Stationery Allowance | 65.00 |
| 5. | Stipend | 3,372.00 |
| TOTAL | | 4,222.00 |

(c) Fee Payment Schedule

If you will not able to pay ALL required fee (Tshs. 3,900,000/=) you are allowed to pay in installments as follows:

- Before the First Semester/Registration Tshs. 2,090,000 (US Dollar 1,340.00)
- Before the Second Semester/Registration Tshs. 1,810,000 (US Dollar 1,140.00)

27.10. FEE STRUCTURE FOR MASTER OF SCIENCE IN LOGISTICS AND TRANSPORT MANAGEMENT

27.10.1. Direct Payments to the Institute

| S/No. | Item | Tanzania Local Students in TShs. | | Non Tanzanians Students (USD) | |
|--------------------|---------------------------------------|--|--|--|--|
| | | First Year Semester I + II (12 Months) | Second Year Semester III Dissertation (6 Months) | First Year Semester I + II (18 Months) | Second Year Semester III Dissertation (6 Months) |
| 1. | Tuition Fee | 1,950,000.00 | 1,900,000.00 | 1,814.00 | - |
| 3. | Registration | 30,000.00 | - | 14.00 | - |
| 4. | Institution Examination | 125,000.00 | 125,000.00 | 115.00 | |
| 5. | Student Organization (SONIT) | 20,000.00 | 20,000.00 | 10.00 | 10.00 |
| 6. | TCU Quality Assurance | 150,000.00 | 150,000.00 | 69.00 | |
| 7. | Registration Fee | 50,000.00 | | | |
| 8. | Identity Card | 30,000.00 | | 14.00 | |
| 9. | Library Membership Fee | 30,000.00 | | 14.00 | |
| 10. | Dissertation Supervision Examinations | 500,000.00 | 500,000.00 | | 460.00 |
| 11. | General/Administrative Service Fee | 175,000.00 | 175,000.00 | 161.00 | |
| 12. | *Certificate Academic Transcript | - | 70,000.00 | - | 10.00 |
| TOTAL | | 3,060,000.00 | 2,940,000.00 | 2,211.00 | 480.00 |
| Grand Total | | 6,000,000.00 | | 2,691.00 | |

(b) Direct Payments to Student

| S/No. | Item | First Year | | Second Year | |
|--------------|--|---------------------|----------------------|---------------------|----------------------|
| | | Local (Tzs) | Non-Tz Student (USD) | Local (Tzs) | Non-Tz Student (USD) |
| 1. | Stipend (Accommodation, Meal and pocket money) | 3,500,000.00 | 1,610.00 | 3,500,000.00 | 1,610.00 |
| 2. | Thesis/Dissert. Production | - | - | 400,000.00 | 300.00 |
| 3. | Book | 500,000.00 | 230.00 | - | 400.00 |
| 4. | Stationary | 200,000.00 | 95.00 | - | 150.00 |
| 5. | Insurance cover | 100,000.00 | 150.00 | 100,000.00 | 150.00 |
| 6. | Research Fund | - | - | 2,500,000.00 | 2,000.00 |
| Total | | 4,300,000.00 | 2,085.00 | 6,500,000.00 | 4,610.00 |

27.11 FEE STRUCTURE FOR MASTERS DEGREE NTA LEVEL 9 PROGRAMME IN MECHANICAL ENGINEERING WITH TRANSPORTATION MACHINERY

27.1.1. Direct payment to the Institute

| S/No. | Item | Tanzania Local Students in (TZS) | | Non-Tanzanians Students (USD) | |
|--------------------|---|----------------------------------|---------------------|-------------------------------|-------------------|
| | | First Year (Tshs) | 6 Moths (Tshs) | First Year (US \$) | 6 Mothers (US \$) |
| 1. | Tuition Fee | 3,900,000.00 | 850,000.00 | 3,900,000 | 850,000 |
| 2. | Application Fees | 30,000.00 | | 30.00 | |
| 3. | Registration Fees | 50,000.00 | - | 50.00 | - |
| 4. | Identity Card | 30,000.00 | | | |
| 5. | Institutional Examination | 150,000.00 | | | |
| 6. | Student Organization Contribution (SONIT) | 20,000.00 | 5,000.00 | 10.00 | 5.00 |
| 7. | TCU Quality Assurance | 150,000.00 | | | |
| 8. | Library Membership Fee | 30,000.00 | | | |
| 9. | Dissertation Supervision | 500,000.00 | | | |
| 10. | General/Administrative Service Fee | 175,000.00 | | | |
| 11. | Non-Refundable Medical Capitation Fees | *100,000.00 | *100,000.00 | *100.00 | *100.00 |
| 12. | Caution Money | 10,000.00 | | 10.00 | |
| | | 5,045,000.00 | 855,000 | 4,000.00 | 855,00 |
| TOTAL | | 3,060,000.00 | 2,940,000.00 | 2,211.00 | 480.00 |
| Grand Total | | 6,000,000.00 | | 4,855.00 | |

(b) Direct Payments to Student

| S/No. | Item | Residents | | Non-Residents | |
|--------------|---|---------------------|---------------------|-------------------|-----------------|
| | | First Year (Tshs) | 6 Months (Tshs) | First Year (US\$) | 6 Moths (US\$) |
| 1. | Books | 500,000.00 | | 500.00 | |
| 2. | Stationery | 150,000.00 | 50,000.00 | 150.00 | 50.00 |
| 3. | Dissertation Production Costs | | 250,000.00 | | 250.00 |
| 4. | Living and Facilitation Costs Allowance | 3,600,000.00 | 1,800,000.00 | 3,600.00 | 1,800.00 |
| 5. | Research Costs | | 2,000,000.00 | | 2,000.00 |
| Total | | 4,250,000.00 | 4,100,000.00 | 4,250.00 | 4,100.00 |

27.12. FEE STRUCTURE FOR CARRY-OVER AND RETAKE MODULE(S)

| S/No. | FEE ITEM | NTA LEVEL | | | | |
|-------|--------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | 4 | 5 | 6 | 7 | 8 |
| 1. | Tuition Fee Per Module | 66,000.00 | 66,000.00 | 76,000.00 | 118,500.00 | 126,000.00 |
| 2. | Institution Examination | 10,000.00 | 10,000.00 | 10,000.00 | 10,000.00 | 10,000.00 |
| 3. | NACTE Fee | 15,000.00 | 15,000.00 | 15,000.00 | 20,000.00 | 20,000.00 |
| 4. | Student's Organization (SONIT) | 10,000.00 | 10,000.00 | 10,000.00 | 10,000.00 | 10,000.00 |
| 5. | Registration | 10,000.00 | 10,000.00 | 10,000.00 | 10,000.00 | 10,000.00 |
| 6. | Identity Card | 20,000.00 | 20,000.00 | 20,000.00 | 20,000.00 | 20,000.00 |
| 7. | Library Membership | 10,000.00 | 10,000.00 | 10,000.00 | 10,000.00 | 10,000.00 |
| 8. | Total | 141,000.00 | 141,000.00 | 151,000.00 | 198,500.00 | 206,000.00 |

Other cost (Penalty items payable to the Institute)

| S/No. | COST ITEM | Tanzanian (Tsh) | Non-Tanzanian (US\$) Dollar |
|-------|---|--------------------|-----------------------------|
| 1. | Late registration; registering in the third week after the commencement of semester | 10,000/= per day | 5 per day |
| 2. | Extension of registration period | 50,000/= per month | 45 per month |
| 3. | Late submission and approval of research, Industrial Training Report/Project/Work; e.g. Beyond the set deadline | 50,000/= per month | 45 per month |
| 4. | Late submission of Industrial/Fieldwork report(s) | 50,000/= per month | 45 per month |
| 5. | Provisional Examination Results | 5,000/= | 5 (US\$) |

27.13. AB-INITIO CABIN CREW COURSE FEE STRUCTURE

(a) Direct payments to the Institute

| AB-INITIO CABIN CREW COURSE TUITION FEE | | | |
|---|------------------------|--------------|--------|
| S/No. | Item | TSHS | USD |
| 1. | Cabin Crew Tuition Fee | 2,200,000.00 | 952.00 |

(b) Direct payments to the students

| AB-INITIO CABIN CREW COURSE OTHER EXPENSES | | | |
|--|---------------------------------|--------------|--------|
| S/No. | Item | TSHS | USD |
| 1. | Uniform | 320,000.00 | 89.00 |
| 2. | Meals | 2,100,000.00 | 909.00 |
| 3. | Accommodation | 1,050,000.00 | 455.00 |
| 4. | Initial medical examination fee | 150,000.00 | 65.00 |
| 5. | Medical insurance | 50,400.00 | 22.00 |

Note: Fee should be paid in lump sum (Tshs. 2,200,000.00)

28.0. 2022/2023 ACADEMIC CALENDAR FOR NTA LEVEL 4-8

| STARTING DATE | ENDING DATE | TRAINING ACTIVITIES | NTA LEVEL PROGRAMME |
|---------------------|---------------------|---|--|
| 17th October, 2022 | 23rd October, 2022 | Reporting, Registration and Orientation Period | NTA 4-5 |
| 24th October, 2022 | 06th November, 2022 | Reporting, Registration and Orientation Period | First year Students NTA 7I |
| | | Reporting, Registration | Continuing Students NTA 5, 6, 7II, III, 8 |
| 24th October, 2022 | 05th February, 2023 | 1st Semester Lectures | NTA 4-8 |
| 05th December, 2022 | 12th December, 2022 | Conduct 1st Test for 1st Semester | NTA 4-8 |
| 09th January, 2023 | 15th January, 2023 | Conduct 2nd Test for 1st Semester | NTA 4-8 |
| 06th February, 2023 | 19th February, 2023 | Conduct 1st Semester Examinations | NTA 4-8 |
| 20th February, 2023 | 05th March, 2023 | Marking and posting into SIMS the 1st Semester Examinations Results | NTA 4-8 |
| 20th February, 2023 | 05th March, 2023 | Vacation | NTA 4-8 |
| 06th March, 2023 | 11th March, 2023 | Departmental Meeting to Deliberate on the 1st semester Examination Results | NTA 4-8 |
| 06th March, 2022 | 18th June, 2023 | 2nd Semester Registration and Lectures | NTA 4-8 |
| 15th March, 2023 | - | Examination Committee Meeting to Deliberate on the 1st Semester Examination Results | NTA 4-8 |
| 20th March, 2023 | 31st March, 2023 | Processing of 1st Semester Examination Appeals | NTA 4-8 |
| 04th April, 2023 | - | Examination Appeals Committee Meeting | NTA 4-8 |
| 17th April, 2023 | 23rd April, 2023 | Conduct 1st Test for 2nd Semester | NTA 4-8 |
| 28th April, 2023 | - | Examination Board Meeting to Approve 1st Semester Examination Results | NTA 4-8 |
| 22nd May, 2023 | 28th May, 2023 | Conduct 2nd Test for 2nd Semester | NTA 4-8 |
| 19th June, 2023 | 2nd July, 2023 | Conduct 2nd Semester Examinations | NTA 4-8 |
| 03rd July, 2023 | 09th July, 2023 | Vacation | NTA 4-8 |
| 03rd July, 2023 | 30th July, 2023 | Marking 2nd Semester Examination and Posting into SIMS | NTA 4-8 |
| 31st July, 2023 | 06th August, 2023 | Departmental Meeting to Deliberate on the 2nd Semester Examination Results | NTA 4-8 |
| 07th August, 2023 | - | Examination Committee Meeting to Deliberate on the 2nd Semester Results | NTA 4-8 |
| 23rd August, 2023 | - | Examination Appeals Committee Meeting | NTA 4-8 |
| 25th August, 2023 | - | Examination Board Meeting to Approve 2nd Semester Examination Results | NTA 4-8 |

| | | | |
|----------------------|----------------------|--|------------|
| 10th July, 2023 | 03rd September, 2023 | Field work/Teaching Practice/ Industrial Practical Training | NTA 4, 5,7 |
| 11th September, 2023 | 17th September, 2023 | Conduct of Special & Supplementary Examinations | NTA 4-8 |
| 11th September, 2023 | 23rd September, 2023 | Marking. of Special & Supplementary Examination and Posting Results into SIMS | NTA 4-8 |
| 2nd October, 2023 | 06th October, 2023 | Departmental Meeting to Deliberate on Special on the Special/ Supplementary Examination Results | NTA 4-8 |
| 11th October, 2023 | - | Examination Committee Meeting to Deliberate on the Special/ Supplementary Examination Results | NTA 4-8 |
| 23rd October, 2023 | - | Examination Board Meeting to Approve Annual Examination Results | NTA 4-8 |

28.1. 2022/2023 ACADEMIC CALENDAR FOR NTA LEVEL 7-8

| STARTING DATE | ENDING DATE | TRAINING ACTIVITIES | NO. OF DAYS | BACHELOR'S DEGREE YEAR OF STUDY |
|----------------------|----------------------|---------------------|-------------|---|
| 24 October, 2022 | 05th February, 2023 | 15 | I | 1st Semester Lectures |
| 05th December, 2022 | 12th December, 2022 | 1 | | Conduct 1st Test |
| 09th January, 2023 | 15th January, 2023 | 1 | | Conduct 2nd Test |
| 06th February, 2023 | 19th February, 2023 | 2 | | Conduct 1st Semester Examinations |
| 06th March, 2023 | 18th June, 2023 | 15 | II | 2nd Semester Lectures |
| 17th April, 2023 | 23rd April, 2023 | 1 | | Conduct 1st Test |
| 22nd May, 2023 | 28th May, 2023 | 1 | | Conduct 2nd Test |
| 19th June, 2023 | 02nd July, 2023 | 2 | | Conduct 2nd Semester Examinations |
| 10th July, 2023 | 03rd September, 2023 | 8 | | Conduct of Field work Training/ Industrial Practical Training/Teaching Practice |
| 11th September, 2023 | 17th September, 2023 | 1 | | Conduct of Special/ Supplementary Examination for NTA Level 4-8 |

28.2. 2022/2023 ACADEMIC CALENDAR FOR POSTGRADUATE PROGRAMMES

| STARTING DATE | ENDING DATE | WEEK (S) | ACTIVITIES |
|----------------------|----------------------|----------|---|
| 24th October, 2022 | 04th November, 2022 | 2 | Reporting, Registration and Orientation Period for Postgraduate students, 2022/2023 |
| 07th November, 2022 | 24th February, 2023 | 16 | Quarter I&II PGD Lectures 2022/2023 Semester I Masters Lectures 2022/2023 |
| 3rd February, 2023 | 07th February, 2023 | 1 | First Proposal/Project Presentation for 2021/2022 Masters students(Second Year -MSc.LTM) |
| 13th March, 2023 | 24th March, 2023 | 2 | Semester I Examinations for Masters 2022/2023 |
| 20th March, 2023 | 24th March, 2023 | 1 | Second Proposal/Project Presentation for Masters students 2021/2022 |
| 27th March, 2023 | 7th April, 2023 | 2 | Marking and Moderation of First Semester Examinations for Masters students 2022/2023 Vacation-Masters and PGD Students |
| 10th April, 2023 | 14th April, 2023 | 1 | Posting Examination Results into SIMS for Postgraduate Lecturers |
| 17th April, 2023 | 21st April, 2023 | 1 | Directorate Meeting to deliberate on First Semester Examination results for Masters 2022/2023 Postgraduate Committee Meeting and Publishing of Semester I Examination Results, 2022/2023 |
| 17th April, 2023 | 21th July, 2023 | 16 | Quarter III PGD Lectures |
| 31st July, 2023 | 4th August, 2023 | 1 | Special/Supplementary Examinations for Masters students 2022/2023 |
| 30th June, 2023 | | | Submission of First Draft –Dissertations/ Projects for Masters students 2021/2022 |
| 21st August , 2023 | 1st September, 2023 | 2 | Semester II Examinations for Masters 2022/2023 |
| 04th September, 2023 | 15th September, 2023 | 2 | Marking and Moderation of Second Semester Examinations for Masters students 2022/2023 |
| 18th September, 2023 | 22nd September, 2023 | 1 | Posting Final Examination Results into SIMS for Postgraduate Lecturers 2022/2023 Mini Presentation for Masters students 2021/2022 |


| | | | |
|----------------------|----------------------|---|---|
| 25th September, 2023 | 29th September, 2023 | 1 | Directorate Meeting to deliberate on Second Semester Examination results for Masters and PGD Quarter I-III, 2022/2023 |
| | | | Postgraduate Committee Meeting and Publishing of Semester II and PGD Quarter I-III Examination Results, 2022/2023 |
| 09th October, 2023 | 20th October, 2023 | 2 | Special/Supplementary Examinations for Masters and PGD students 2022/2023 |
| 23rd October, 2023 | 27th October, 2023 | 1 | Viva Voce for Masters Students 2021/2022 |
| 30th October, 2023 | 13th November, 2023 | 2 | Reporting, Registration and Orientation Period for Postgraduate students, 2023/2024 |

Source: Registrar's office.

**EXCELLENCE IN LOGISTICS,
MANAGEMENT AND
TRANSPORT TECHNOLOGY**

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