

Message from the Acting 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 2023/24. 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 258 available academic staff members and 150 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.

Dr. Zainabu M. Mshana
Acting 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 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. ORGANIZATION OF NIT

2.1. MEMBERS OF THE GOVERNING COUNCIL

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DAR ES SALAAM.

ACTING SECRETARY

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Mr. Eliamini H. Mchome,

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2.2. INSTITUTE MANAGEMENT TEAM

Acting Rector

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

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. Olesaitabu – BA in Public Relations and Marketing – (St. Augustine University of Tanzania).

Mr. Juma Manday - MSc in Marketing Management - (MU), BA Public Relations and Advertising – (UDSM).

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

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Manager

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Coordinators

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Acting Deputy Rector - Academic, Research and Consultancy

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Examination Coordinator

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Head of Dispensary Section

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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 AND PROGRAMME DURATION

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	1 year
2.	Basic Technician Certificate in Freight Clearing and		
7.	Basic Technician Certificate in Business Administration		

S/NO.	NAME OF PROGRAMME	ENTRY QUALIFICATIONS	PROGRAMMES/ DURATION
10.	Basic Technician Certificate in Auto-electrical and Electronic 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
11.	Basic Technician Certificate in Electronics and Telecommunication Engineering		
12.	Basic Technician Certificate in Electrical Engineering		
13.	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
14.	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
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 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	1 year
16.	Basic Technician of Certificate in Records, Archives and Information Management		

S/NO.	NAME OF PROGRAMME	ENTRY QUALIFICATIONS	PROGRAMMES/ DURATION
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.		
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

S/NO.	NAME OF PROGRAMME	ENTRY QUALIFICATIONS	PROGRAMMES/ DURATION
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	PROGRAMME DURATION
1.	Ordinary Diploma in Logistics and Transport Management	Basic Technician Certificate (NTA Level 4) in Logistics and Transport Management from NACTVET 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 NACTVET 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 NACTVET 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 NACTVET 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 NACTVET 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

S/NO.	NAME OF PROGRAMME	ENTRY QUALIFICATIONS	PROGRAMME DURATION
6.	Ordinary Diploma in Procurement and Logistics Management	Basic Technician Certificate (NTA Level 4) from NACTVET 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 NACTVET recognized Institutions OR Form six with at least one principal Pass and one subsidiary pass of the combination subjects in ACSEE	2 years
8.	Ordinary Diploma in Business Administration	Basic Technician Certificate (NTA Level 4) from NACTVET recognized Institutions OR Form six with at least one principal Pass and one subsidiary pass of the combination subjects in ACSEE	2 years
9.	Ordinary Diploma in Accounting and Transport Finance		
10.	Ordinary Diploma in Marketing and Public Relations	Basic Technician Certificate (NTA Level 4) from NACTVET recognized Institutions OR Form six with at least one principal Pass and one subsidiary pass of the combination subjects in ACSEE	2 years
11.	Ordinary Diploma in Aircraft Maintenance Engineering	Basic Technician Certificate (NTA Level 4) in Aircraft Maintenance/ Mechanical/ Automobile/ Mechatronics/ Engineering from NACTVET 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 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 NACTVET OR Technician Certificate (NTA Level 5) in related field recognized by NACTVET	3 years

S/NO.	NAME OF PROGRAMME	ENTRY QUALIFICATIONS	PROGRAMME DURATION
13.	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
14.	Ordinary Diploma in Electrical Engineering	Basic Technician Certificate (NTA Level 4) in related field recognized by NACTVET OR Technician Certificate (NTA Level 5) in related field recognized by NACTVET; 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 NACTVET 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 NACTVET 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

S/NO.	NAME OF PROGRAMME	ENTRY QUALIFICATIONS	PROGRAMME DURATION
17.	Ordinary Diploma in Shipping and Port Logistics Operations	Basic Technician Certificate (NTA Level 4) in Shipping and Port Logistics Operations from NACTVET 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 NACTVET 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 NACTVET; OR Technician Certificate (NTA Level 5) in related field recognized by NACTVET	3 years
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 NACTVET; OR Technician Certificate (NTA Level 5) in related field recognized by NACTVET	3 years

S/NO.	NAME OF PROGRAMME	ENTRY QUALIFICATIONS	PROGRAMME DURATION
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 NACTVET	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 NACTVET	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 NACTVET	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 NACTVET	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 NACTVET	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	PROGRAMME 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 Ordinary 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 Civil and Railway Engineering	Two principal passes in ACSEE in Advanced Mathematics and Physics / Chemistry with an aggregate of 4.0 points; OR Ordinary Diploma (NTA Level 6) in Civil, Irrigation/Transportation, Highway, Water Supply and Sanitation and Mining Engineering with at least GPA of 3.0 class plus four passes in the CSEE	4 years

S/NO.	NAME OF PROGRAMME	ENTRY QUALIFICATIONS	PROGRAMME DURATION
3.	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 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 Ordinary Diploma in Education with an average of at least a C grade including four (04) passes in CSEE excluding religious subjects	3 years
4.	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 Ordinary 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
5.	Bachelor's Degree in Human Resources Management	Two (2) principal passes in ACSEE in any subjects excluding religious subjects with a total of 4.0 points; OR Ordinary 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
6.	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 Ordinary 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	PROGRAMME DURATION
7.	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;	4 years
8.	Bachelor's Degree in Mechanical Engineering	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	
9.	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

S/NO.	NAME OF PROGRAMME	ENTRY QUALIFICATIONS	PROGRAMME DURATION
10.	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
11.	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

S/NO.	NAME OF PROGRAMME	ENTRY QUALIFICATIONS	PROGRAMME DURATION
12.	Bachelor's Degree in Accounting and Transport Finance	Two (2) principal passes with 4.0 points in the ACSEE excluding religious subjects; OR Ordinary 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
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 Ordinary Diploma in Education with an average of at least a C grade including four (04) passes in CSEE excluding religious subjects	3 years

S/NO.	NAME OF PROGRAMME	ENTRY QUALIFICATIONS	PROGRAMME DURATION
14.	Bachelor's Degree in Marketing and Public Relations	<p>Two (2) principal with at least 4.0 points passes in the ACSEE excluding religious subjects;</p> <p>OR</p> <p>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</p>	3 years

S/NO.	NAME OF PROGRAMME	ENTRY QUALIFICATIONS	PROGRAMME DURATION
15.	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
16.	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 Ordinary Diploma in Education with an average of at least a C grade including four (04) passes in CSEE excluding religious subjects	3 years

ACSEE= Advanced Certificate of Secondary Education Examinations.

CSEE= Certificate of Secondary Education Examinations.

3.2.4. POSTGRADUATE PROGRAMMES

S/NO.	NAME OF PROGRAMME	ENTRY QUALIFICATIONS	PROGRAMME 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.	Postgraduate Diploma in Rail Transport Management (PGDRTM)	Advanced Diploma or Bachelor's Degree in any field of study from a recognized Institution	1 year
7.	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
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

S/NO.	NAME OF PROGRAMME	ENTRY QUALIFICATIONS	PROGRAMME DURATION
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	Bachelor's Degree from a recognized Institution, OR Advanced Diploma with a postgraduate Diploma in a relevant field.	2 years
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	PROGRAMME 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 C ₁ 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	

S/NO.	NAME OF PROGRAMME	ENTRY QUALIFICATIONS	PROGRAMME DURATION
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 C ₁ 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 C ₁ 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 C ₂ and having worked with it for at least three years	
		Age not less than twenty-seven (27) years	
5(c)	Public Service Vehicle (PSV) Drivers' Course – for C ₂ 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 C ₁ and having worked with it for at least three years	
		Age - not less than twenty-four (24) years	

S/NO.	NAME OF PROGRAMME	ENTRY QUALIFICATIONS	PROGRAMME DURATION
5(d)	Public Service Vehicle (PSV) Drivers' Course – for C ₃ 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 C ₁ 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	PROGRAMME 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. PROFESSIONAL AVIATION SHORT COURSES

S/NO.	PROGRAMME NAME	ENTRY QUALIFICATIONS	PROGRAMME DURATION
1.	Cabin Crew Ab-Initio Course	Certificate of Secondary Education Examinations (CSEE) with four (4) passes including English (religious subjects excluded)	4 months
		Ability to read, speak, write and understand English language	
		Age between 18 and 30 years inclusively	
		Acceptable Body Mass Index (18.5 – 24.9) Kg/m ²	
		Medical Certificate Class 2	
		Competence in any other international language is an added advantage	
		Foreign applicants must have a legal permit to stay/study in the country	

S/NO.	PROGRAMME NAME	ENTRY QUALIFICATIONS	PROGRAMME DURATION
2.	Cabin Crew Recurrent Course	Valid Cabin Crew Certificate issued by CAA	1 week
		Be able to read, speak and write English language	
		Foreign applicants must have legal permit to stay or study in Tanzania	
3.	Cabin Crew Aircraft Type Course	Valid Cabin Crew Certificate issued by CAA	1 week
		Be able to read, speak and write English language	
		Foreign applicants must have legal permit to stay or study in Tanzania	
4.	Cabin Crew Qualification Course – Category I	Cabin Crew Certificate issued by CAA	1 week
		Be able to read, speak and write English language	
		Be physically and medically fit	
		Acceptable body mass index (18.5-24.9) kg/m ²	
		Foreign applicants must have legal permit to stay or study in Tanzania	
5.	Cabin Crew Qualification Course – Category II	Cabin Crew Certificate issued by CAA	4 weeks
		Be able to read, speak and write English language	
		Be physically and medically fit	
		Acceptable body mass index (18.5-24.9) kg/m ²	
		Foreign applicants must have legal permit to stay or study in Tanzania	
6	Flight Operations Officer Recurrent Course	Holder of FOO/FD certificates of completion or equivalent	1 week
		Holder of FOO/FD License	
		Medical fitness report from any recognized government medical centre	
		Foreign applicants must have a legal permit to stay/study in the country	

S/NO.	PROGRAMME NAME	ENTRY QUALIFICATIONS	PROGRAMME DURATION
7.	Cabin Crew Qualification Course – Category III	Introductory letter and/or Certificate of completion from any Unapproved Training Organization	4 weeks
		Certificate of Secondary Education Examination (CSEE) or equivalent	
		Be able to read, speak and write English language	
		Be physically and medically fit; and	
		Foreign applicants must have legal permit to stay or study in Tanzania	
8.	Flight Operations Officer Course	Certificate of Secondary Education Examinations (CSEE) with passes in Physics, Geography, Mathematics, and English	9 months
		Ability to read, speak, write and understand English language	
		Minimum age of 21 years; and	
		Medical fitness report from any recognized government medical centre	
		Foreign applicants must have a legal permit to stay/study in the country	
9.	Safety Management System Course	Certificate of Secondary Education Examinations (CSEE) with four (4) passes including English (religious subjects excluded)	1 week
		Ability to read, speak, write and understand English language	
		Minimum age of 18 years	
		Medical fitness report from any recognized government medical centre	
		Foreign applicants must possess a valid legal permit to stay/study in Tanzania	

S/NO.	PROGRAMME NAME	ENTRY QUALIFICATIONS	PROGRAMME DURATION
10.	Safety Management System Recurrent Course	Certificate of completion of SMS course	2 days
		Medical fitness report from any recognized government medical centre	
		Foreign applicants must possess a valid legal permit to stay/study in Tanzania	
11.	Human Factors Course	Certificate of Secondary Education Examinations (CSEE) with four (4) passes including English (religious subjects excluded)	1 week
		Ability to read, speak, write and understand English language	
		Minimum age of 18 years	
		Medical fitness report from any recognized government medical centre	
		Foreign applicants must possess a valid legal permit to stay/study in Tanzania	
12.	Human Factors Recurrent Course	Certificate of completion of Human Factors course	2 days
		Medical fitness report from any recognized government medical centre	
		Foreign applicants must possess a valid legal permit to stay/study in Tanzania	
		Medical fitness report from any recognized government medical centre	
		Foreign applicants must possess a valid legal permit to stay/study in Tanzania	

S/NO.	PROGRAMME NAME	ENTRY QUALIFICATIONS	PROGRAMME DURATION
13.	Crew Resource Managemet Course	Certificate of Secondary Education Examinations (CSEE) with four (4) passes including English (religious subjects excluded)	3 days
		Ability to read, speak, write and understand English language	
		Minimum age of 18 years	
		Medical fitness report from any recognized government medical centre	
		Foreign applicants must possess a valid legal permit to stay/study in Tanzania	
14.	Crew Resource Managemet Recurrent Course	Certificate of completion of CRM course	1 day
		Medical fitness report from any recognized government medical centre	
		Foreign applicants must possess a valid legal permit to stay/study in Tanzania	
15.	Global Distribution System Fares and Ticketing – Amadeus	Certificate of Secondary Education Examination (CSEE) with at least three passes including Mathematics and English subjects (religious subjects excluded)	1 month
		Minimum age of eighteen (18) years	
		Ability to read, speak and write English	
		Knowledge of computer applications will be an added advantage	
		Foreign applicants must possess a valid legal permit to stay/study in Tanzania	

S/NO.	PROGRAMME NAME	ENTRY QUALIFICATIONS	PROGRAMME DURATION
16.	Airport Operations Fundamentals	Certificate of Secondary Education Examination (CSEE) with at least three passes including English subjects (religious subjects excluded)	1 week
		Ability to read, speak and write English	
		Minimum age of eighteen (18) years.	
		Knowledge of computer applications will be an added advantage	
		Foreign applicants must possess a valid legal permit to stay/study in Tanzania	
17.	Airline Marketing	Certificate of Secondary Education Examination (CSEE) with at least three passes including English subjects (religious subjects excluded)	1 week
		Ability to read, speak and write English	
		Minimum age of eighteen (18) years	
		Knowledge of computer applications will be an added advantage	
		Foreign applicants must possess a valid legal permit to stay/study in Tanzania	
18.	Airline Customer Service	Certificate of Secondary Education Examination (CSEE) with at least three passes including English subjects (religious subjects excluded)	1 week
		Ability to read, speak and write English	
		Minimum age of eighteen (18) years	
		Knowledge of computer applications will be an added advantage	
		Foreign applicants must possess a valid legal permit to stay/study in Tanzania	

3.5. OTHER SHORT COURSES OFFERED

- (a) Aviation Security Awareness,
- (b) Dangerous Goods Awareness,
- (c) Tyre Care and Maintenance,
- (d) Radiopharmaceutical Shipments Handling Skills,
- (e) Transport Officers' Seminars,
- (f) Fleet Management in Road Transport Operations,
- (g) Diesel Engine Service and Maintenance,
- (h) Airline Marketing Management,
- (i) Transport Costing and Transport Statistical Analysis,
- (j) Freight Forwarding Operations and Management,
- (k) Customer Care for Passenger Transport Agents and Ticketing Clerks,
- (l) Vehicle Fleet Management and Maintenance,
- (m) Fuel Management in Vehicle Operations,
- (n) Dangerous Cargo Handling Skills,
- (o) Airport /Aviation Security Handling Skills,
- (p) Travel and Tourism Handling Skills,
- (q) Airline/Airport Customer Care Handling Skills,
- (r) Road Safety Awareness,
- (s) Perishable Shipments Handling Skills,
- (t) Introductory Computing Programmes,
- (u) Engine Overhaul (Petrol and Diesel),
- (v) Cargo Tallying for International Shipping,
- (w) Electronic Fuel Injection (EFI),
- (x) Petrol Engine Service and Maintenance.

3.6. FUTURE PLANS

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

- (a) Private Pilot Licence Course,
- (b) Night Rating Course,
- (c) Commercial Pilot Licence Course,
- (d) Multi-Engine Class Rating Course,
- (e) Single Engine Instrument Rating Course,
- (f) Multi-Engine Instrument Rating Course,
- (g) Bus Cabin Crew Course,
- (h) Train Cabin Crew Course,
- (i) Diploma in Airport Operations,
- (j) Diploma in Flight Operations,
- (k) Bachelor's Degree in Transportation Economics,
- (l) Bachelor's Degree in Transportation Technology,
- (m) Masters Degree in Transportation Planning and Economics,
- (n) Masters Degree in Shipping and Port Logistics Management,
- (o) Masters Degree in Air Transport Management,
- (p) Ordinary Diploma in Vehicle Inspection and Road Safety,
- (q) Ordinary Diploma in Vehicle Inspection,
- (r) 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.

4.4. APPLICANTS FOR AVIATION PROFESSIONAL COURSE

Applicants can apply directly to the Institute through an online application on the Institute's website **www.nit.ac.tz** and attach the following documents: -

- (a) Academic/professional certificate(s),
- (b) Birth certificate,
- (c) One coloured passport-size photo (blue background),
- (d) One coloured full picture, size 6x8 (while standing) for cabin crew courses; and
- (e) Curriculum Vitae (maximum length of 1 page),
- (f) Certificate of Ab-Initio Training (required for recurrent courses),
- (g) Licence (if required),
- (h) Medical Certificate (if required),
- (i) National Identification (required for local applicants),
- (j) Passport (required for foreign applicants),
- (k) Living/Study permit (required for foreign applicants), During application, Candidates should pay the application fee of Tshs. 10,000 or Tshs. 50,000/= for cabin crew course (non-refundable) and shall be paid online by using a Control Number obtained from the application portal or accounts office.

5.0. REGISTRATION OF STUDENTS

5.1. 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.

5.2. 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.

5.3. REGISTRATION FOR PROFESSIONAL AVIATION SHORT COURSES

- (a) Registration of successful applicants shall be done during the first day after the start of the course. Failure to register within the first day after commencement of training shall lead to cancellation of your admission.
- (b) All candidates shall only be admitted upon producing a satisfactory medical report of health fitness. You are therefore requested to undergo medical examination by a registered medical practitioner before coming to the Institute.
- (c) On arrival, candidates are supposed to report to the Registrar's office for registration after submission of the following: -
 - (i) Evidence of tuition and other fees payment,
 - (ii) The letter of invitation (Admission Letter) to join the Institute,
 - (iii) A duly filled Medical Examination Form,
 - (iv) Original Academic Certificates and certified Academic Transcripts where it is applicable, including two copies of each Academic Certificates,
 - (v) Original Birth Certificate with two copies,
 - (vi) Indemnity Form,
 - (vii) Police Clearance Form,
 - (viii) Introductory Letter from the Local Government Authority and/or Employer,
 - (ix) National Identity card / Passport,
 - (x) Passport with two copies.

- (d) Any student who is sponsored by his or her employer will have to produce written evidence from his or her employer that, he or she has been officially released to pursue the intended programme. One should bring such evidence for use during the registration exercise.
- (e) Every student must attend an orientation programme that shall last for two hours before commencement training.

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. 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.

7.1. DIRECTORATE OF ACADEMIC SUPPORT SERVICES

The Directorate of Academic Support Services 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.

7.1.1. Activities performed under the Directorate of Academic Support Services

- (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.

7.2. FACULTY OF LOGISTICS AND BUSINESS STUDIES

7.2.1. Department of Logistics and Transport Management

The Department is responsible for providing education and training in Logistics and Transport 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.

7.2.1.1. Bachelor's Degree (NTA Level 7-8) in Logistics and Transport Management Programmes

7.2.1.1.1. 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	Computer Applications	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.	GSU 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.	GSU 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.	GSU 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.

7.2.1.1.2 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.

7.2.1.2 Ordinary Diploma (NTA Level 4 to 6) in Logistics and Transport Management Programmes**7.2.1.2.1. Basic Technician Certificate (NTA Level 4) in Logistics and Transport Management****(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	Total 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 Computer knowledge	9
5.	GST 04101	Basics Business Communication	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	Basics 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.

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

(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	Basics Computer Application	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	Basics 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	Business Communication	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.

7.2.1.2.3. 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 Module**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 06104	Basics of Management Accounting	12
4.	GST 06101	Development Studies	9
5.	GST 06102	Fundamentals 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.

7.2.1.3. Bachelor's Degree (NTA Level 7-8) in Road and Railway Transport Logistics Management Programmes

7.2.1.3.1. 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.

7.2.1.3.2. 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.

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

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

(a) **Purpose of Qualifications**

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 the 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) **Awards**

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.

7.2.1.4.2. 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) **Awards**

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.

7.2.1.4.3. 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) **Awards**

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

7.2.1.5. Academic Staff

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 Maritime Studies - (Stellenbosch University, S.A), BSc. Ed. Hons – (UDSM), Member IoDT, FCILT.

Assistant Lecturers

- Mr. Godlisten Msumanje MSc. Logistics and Transport Management – (NIT), Master of Logistics Management Managemen.t – (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. 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

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

Ms. Zawadi J. Mwakyoma	BLTM – (NIT).
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Tutor II

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

7.2.2. Management Sciences Department

The department is responsible for planning, organizing and conducting Business Administration, Procurement and Logistics Management, Human Resource Management 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.

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

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.

7.2.2.1.1 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			
3.	GSU 07202	Quantitative Methods	9
4.	HRU 07203	Principles of Human Resource Management	12
5.	BBU 07204	Cost Accounting	9
6.	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	Credit
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.

7.2.2.1.2. 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	Credit
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	12
Fundamental Modules			
5.	BBU 08105	Business Ethics and Good Governance	12
Total Credits			60

SEMESTER II

S/No.	Module Code	Module Name	Credit
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.

7.2.2.2 Ordinary Diploma (NTA Level 6) in Procurement and Logistics Management

7.2.2.2.1. 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	Credit
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	Credit
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.

7.2.2.2.2. 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	Credit
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	Credit
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.

7.2.2.3. 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 Module**

SEMESTER I

S/No	Module Code	Module Name	Credit
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			
3.	GST 06101	Development Studies	9
4.	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	Credit
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 successfully completion of the programme a candidate is awarded the Diploma in Procurement and Logistics Management of the National Institute of Transport.

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

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.

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

(a) Purpose of the Qualifications

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	Credit
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	Strategic Management	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.

7.2.2.3.2. Bachelor's Degree (NTA Level 8) in Business Administration**(a) Purpose of the Qualifications**

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.

7.2.2.4. Ordinary Diploma (NTA Level 6) in Business Administration Programme

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

(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
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.	HRT 04203	Basic Principles of Management	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.

7.2.2.4.2. 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			60

(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.

7.2.2.4.3. 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 Module**SEMESTER I**

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	BBT 06101	Principles of Financial Accounting	15
2.	BBT 06102	Field Practical Training	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 successful completion of the programme a candidate is awarded the Diploma in Business Administration of the National Institute of Transport.

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

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.

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

- (a) Purpose of the Qualifications** 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	Principles of Economics	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	Field Practical Training	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.

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

(a) Purpose of the Qualifications

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	Credit
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.

7.2.2.6. Diploma (NTA Level 6) in Human Resources Management Programme**7.2.2.6.1. Basic Technician Certificate (NTA Level 4) in Human Resources Management****(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.

7.2.2.6.2. 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.

7.2.2.6.3. 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 Module

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 06105	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.

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

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.

7.2.2.7.1. 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.	MPU 07104	Public Relations	9
2.	MPU 07105	Business Law	9
3.	MPU 07106	Marketing Management	9
4.	MPU 07107	Photography for Public Relations and Marketing	9
Fundamental Modules			
5	MPU 07101	Business Communication Skills	6
6	MPU 07102	Development Studies	6
7.	MPU 07103	Business Mathematics and Statistics	6
8.	MPU 07108	Transport Management	6
Total Credits			60

SEMESTER II

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	MPU 07210	Principles of Management	9
2.	MPU 07211	Managerial Economics	9
3.	MPU 07212	Public Relations Writing	9
4.	MPU 07213	Service Marketing Management	9
5.	MPU 07214	Multimedia Design and Production	9
6.	MPU 07215	Advertising and Promotion	9
Fundamental Modules			
7.	MPU 07209	Business Information Systems Application	9
Total Credits			63

SEMESTER III

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	MPU 07317	Customer Relationship Management	9
2.	MPU 07319	Research Methodology	6
3.	MPU 07320	Events Management	9
4.	MPU 07321	Media Relations	9
5.	MPU 07323	Industrial Practical Training	12

Fundamental Modules			
6.	MPU 07316	Business Accounting and Costing	9
7.	MPU 07318	Quantitative Methods for Business	9
8.	MPU 07322	Entrepreneurship and Business Development	9
Total Credits			72

SEMESTER IV

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	MPU 07424	Buyer Behaviour and Consumerism	9
2.	MPU 07426	Public Relations Campaign	9
3.	MPU 07427	Integrated Marketing Communication	9
4.	MPU 07428	Strategic Public Relations	12
5.	MPU 07429	Marketing Research	12
Fundamental Modules			
6.	MPU 07316	Business Accounting and Costing	9
7.	MPU 07425	Organisational Behavior	9
Total Credits			60

(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

7.2.2.7.2 Bachelor's Degree (NTA Level 8) in Marketing and Public Relations

(a) Purpose of the Qualifications

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.	MPU 08102	Issues and Crisis Management	9
2.	MPU 08103	Strategic Corporate Public Relations	9
3.	MPU 08105	International Marketing	9
4.	MPU 08107	Brand Management	9
5.	MPU 08108	Industrial Practical Training	12

Fundamental Modules			
	MPU 08101	Strategic Management	6
6.	MPU 08104	Financial Management	8
	MPU 08106	Human Resource management	6
Total Credits			66

SEMESTER II			
S/No.	Module Code	Module Name	Credits
Core Modules			
1.	MPU 08209	Broadcasting	9
2.	MPU 08210	Marketing for Transportation services	9
3.	MPU 08211	International Public Relations	6
4.	MPU 08212	Digital Marketing and Public Relations	9
5	MPU 08214	Public Speaking and Protocol	6
6	MPU 08215	Strategic Sales Management	9
7	MPU 08216	Research Project	12
Fundamental Modules			
8	MPU 08213	Business Ethics	9
Total Credits			66

(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.

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

7.2.2.8.1. 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.	MPT 04102	Basics of Commerce	12
2.	MPT 04104	Public Relations	12
3.	MPT 04105	Principles of Marketing	12
Fundamental Modules			
4.	MPT 04101	Basic Communication Skills	6
5.	MPT 04103	Basics of Accounting	12
6.	MPT 04106	Basics of Entrepreneurship	9
Total Credits			63

SEMESTER II

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	MPT 04208	Sales Management	12
2.	MPT 04211	Public Relations Writing	12
3.	MPT 04212	Digital Marketing and Public Relations	12
Fundamental Modules			
4.	MPT 04207	Basic Business Mathematics	6
5.	MPT 04209	Office Practice and Records Management	9
6.	MPT 04210	Basics of Computer Applications	9
7.	MPT 04213	Basics of Transport	6
Total Credits			66

(c) Award

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

7.2.2.8.2. 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.	MPT 05103	Principles of Marketing	9
2.	MPT 05104	Principles of Commerce	9
3.	MPT 05105	Principles of Public Relations	12
4.	MPT 05107	Customer Service	9
5.	MPT 05108	Industrial Practical Training	12
Fundamental Modules			
6.	MPT 05101	Communication Skills	6
7..	MPT 05102	Business Mathematics and Statistics	6
8..	MPT 05106	Computer Applications	6
Total Credits			57

SEMESTER II

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	MPT 05210	Public Relations Writing	9
2.	MPT 05211	Principles of Sales Management	9
3.	MPT 05213	Photography and Graphics Design	9
4.	MPT 05214	Digital Marketing and Public Relations	9
5.	MPT 05215	Principles of Advertising	9
Fundamental Modules			
6.	MPT 05209	Principles of Management	9
7.	MPT 05212	Principles of Economics	9
Total Credits			63

(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.

7.2.2.8.3. 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.	MPT 06103	Marketing Management	9
2.	MPT 06104	Events Management	12
3.	MPT 06106	Public Relations Campaign	9
4.	MPT 06107	Industrial Practical Training	12
Fundamental Modules			
5.	MPT 06101	Business Law and Ethics	9
6.	MPT 06102	Principles of Office and Records Management	9
7.	MPT 06105	Information Systems and Technology	12
Total Credits			60

SEMESTER II

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	MPT 06209	Integrated Marketing Communication	9
2.	MPT 06210	Customer Relationship Management	9

3.	MPT 06211	Buyer Behaviour and Consumerism	9
4.	MPT 06212	Protocol and Etiquette	9
5.	MPT 06213	Newswriting and reporting for public relations	9
	MPT 06214	Project Work	9
Fundamental Modules			
	MPT 06208	Entrepreneurship and Business Development	6
Total Credits			60

(c) Award

On successfully completion of the programme a candidate is awarded the Diploma in Marketing and Public Relation of the National Institute of Transport.

7.2.2.9 Academic Staff

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, Switzeland).
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).
*Ms. Maureen S. Kabugimila	Masters of Commerce- (Madras University – India) B. Com with Computer Application (Madural 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).

Assistant Lectures

*Mr. Daud Katopola	MSc. HRM – (MU), BHRM – (ISW).
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. 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. Nicollaus Mgawe	MSc in Project Management (JKUAT, Kenya), MBA in Procurement and Supply Management – (IAA), Bachelor in Procurement and Logistics Management – (IAA).

Senior Tutor

Ms. Violet Nyambe MSc. HRM -(MU), B-HRM - (ISW).

Tutors

*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. Eliud S. Majami BPA RAM – (MU).

Ms Christine S Mboka BHRM – (MU).

Tutorial Assistants

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).

Ms. Jenipha Marandu MSc Information Science – (MOI), BA Political Science and Public Administration – (UDSM).

Mr. Seleman H. Mzungu BHRM – (NIT).

Mr. Joseph A Shao BA in Procurement and Supply Management – (MoCU)

*On Study leave

7.2.3. Department of Economics, Accounting and Finance

The department is responsible for planning, organizing and conducting Economics, Accounting and Transport Finance programmes. Currently the department offers Bachelor's Degree (NTA Level 7-8) and Ordinary Diploma (NTA Level 4-6) programmes in Accounting and Transport Finance.

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

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.

7.2.3.1.1. 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.	ATU 07101	Business Accounting	9
2.	ATU 07104	Transportation Accounting	12
3.	ATU 07106	Micro-Economics	9
Fundamental Modules			
4.	ATU 07102	Business Mathematics	6
5.	ATU 07103	Communication Skills	6
6.	ATU 07105	Development Studies	6
7.	ATU 07107	Fundamentals of Transport	6
Total Credits			54

SEMESTER II

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	ATU 07208	Financial Management	9
2.	ATU 07209	Macro-Economics	9
3.	ATU 07211	Financial Accounting	12
Fundamental Modules			
4.	ATU 07210	Management Information Technology	6
5.	ATU 07212	Business Statistics	6
6.	ATU 07213	Management Principles and Practices	9
7.	ATU 07214	Marketing Management	6
Total Credits			57

SEMESTER III

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	BAU 07312	Marketing Management	9
2.	BAU 07311	Cost Accounting	12

3.	BAU 07313	Risks Management	12
4.	BAU 07314	Research Methodology and Consultancy	9
5.	BAU 07315	Business Law	12
Fundamental Modules			
6.	BAU 07312	Marketing Management	9
Total Credits			54

SEMESTER IV

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	BAU 07416	Airline Finance	12
2.	BAU 07417	Advanced Financial Accounting	12
3.	BAU 07418	Auditing Theories and Practice	6
4.	BAU 07421	Fieldwork Practice	12
Fundamental Modules			
5.	BAU 07419	Entrepreneurship	12
6.	BAU 07420	Micro and Macro Economics	9
Total Credits			63

(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.

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

(a) Purpose of the Qualifications

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 Cost and Finance	12
2.	BAU 08102	Introduction to Finance Reporting	9
3.	BAU 08103	Taxation	12
4.	BAU 08105	Auditing	12
Fundamental Modules			
5.	BAU 08104	Quantative Method for Decision Making	9
Total Credits			54

SEMESTER II

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	BAU 081206	Financial Reporting	9
2.	BAU 081207	Investment Analysis	12
3.	BAU 081208	International Finance	12
4.	BAU 081209	Management Accounting	12
5.	BAU 081211	Research Project	12
Fundamental Modules			
7.	BAU 081210	Electronic Business (e-business)	9
Total Credits			69

(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.

7.2.3.2. Ordinary Diploma (NTA Level 6) in Accounting and Transport Finance Programme**7.2.3.2.1. Basic Technician Certificate (NTA Level 4) in Accounting and Transport Finance****(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.	ATT 04101	Bookkeeping and Accounting I	12
2.	ATT 04102	Basic Commercial Knowledge	9
3.	ATT 04103	Foundation of Finance	12
Fundamental Modules			
4.	ATT 04104	Elements of Mathematics and Statistics	12
5.	ATT 04105	Business Communication Skills	6
6.	ATT 04106	Basics of Logistics and Transport	12
Total Credits			63

SEMESTER II

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	ATT 04207	Basics of Accounting	12
2.	ATT 04210	Basics of Taxation	12
3.	ATT 04211	Basics of Transport Finance	12
4.	ATT 04212	Elements of Cost Accounting	9
Fundamental Modules			
5.	ATT 04208	Basics of Entrepreneurship	9
6.	ATT 04209	Basic Computer Applications	9
Total Credits			66

(c) Award

Upon successfully 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.

7.2.3.2.2. 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 Costing Accounting	9
2	BAT 05102	Introduction to Principles of Accounting	12
Fundamental Modules			
3	BAT 05103	Business Mathematics and Statistics	12
4	BAT 05104	Elements of Economics	9
5	BAT 05105	Introction to Communication Skills	12
Total Credit Hours in Semester I			54

SEMESTER II

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	BAT 05201	Principles of Accounting	12
2.	BAT 05202	Basic of Cooperate Finance and Financial Services	9
3.	BAT 05206	Industrial Training II	12
4.	BAT 05104	Principles of Taxation	12

Fundamental Modules			
5.	BAT 05203	Commerce	9
6.	BAT 05205	Introduction to Computer Applications	12
Total Credits			66

(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.

7.2.3.2.3. Ordinary 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 Module**

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	12
Fundamental Modules			
4	BAT 06103	Business Mathematics and Statistics	12
5	BAT 06104	Principles for Procurement and Logistics	12
Total Credits			60

SEMESTER II

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	BAT 06202	Introduction to Cooperate Finance	12
2.	BAT 06203	Introduction to Microfinance Transport Technology	12
3.	BAT 06204	Transport Technology	12
Fundamental Modules			
5	BAT 06201	Principles and Practice of Management	12
6.	BAT 06205	Commercial Law	12
Total Credits			60

(c) Award

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

7.2.3.3 Academic Staff

Lecturers

CPA Dr. Chacha Magubo	R. PhD in Business Administration (Accounting)- (UDSM), Master of International Trade – (UDSM), CPA (T) – (NBAA). B. Com Accounting – (UDSM), International Certificate in Humanitarian Logistics, (Kuenhne - Stiftung Foundation).
*Mr. Daudi Kitomo	MBA Finance – (Daystar University- Kenya), Bachelor of Commerce in Accounting – (Daystar University- Kenya).
Mr. Cornelio Swai	MSc Accounting – (SJUT), BAF - (SJUT).
*Mr. Jafari Ruge	Masters of International Business - (UDSM), B. Ed in Commerce - (UDOM).
Mr. Romanus R. Mapund	Masters of International Business – (UDSM), BBA – (UDOM), Cert. in East Africa Customs Clearing and Freight Forwarding Practising – (Institute of Tax Administration).

Assistant Lectures

*Mr. Lonjino Edward	MSc. Economics – (OUT), BA Ed. - Economics & Geography – (UDSM), Dip in Education – (Monduli T.T.C).
Dr. Faustine J. Masunga	PhD in Business Administration (Taxation) – (MU), MBA CM – (MU), ADA – (TIA), IATA - (Beijing China), Cert. in Customer Care and Leadership (Kampala – Uganda).
*Mr. Yoeni S. Kaniki	MA – Economics – (UDSM), B.A. Education – (UDSM)
*Mr. Jordson Mwesigwa	MSc in A & F – (MU), BBA – (OUT), Dip in Education - (Dar es Salaam – TTC).
Ms. Melline E. Kyando	MSc in Finance and Investment – (IAA), Bachelor Degree in Banking and Finance (IAA).
Ms. Janeth Mganilwa	MSc.in Transport Economics – (University of Leeds, UK), BA Economics and Finance – (IAA).
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).
Mr. Mamboleo Seif	MBA Finance – (Cardiff Metropo Litan University, London), Postgraduate in Finance – (Bangalore Management Academy), Bachelor of Business Management – (Bangalore Management Academy).

Senior Tutor

Ms. Mwanaisha A. Mhalule	MSc. A & F- (MU), BAF- (MU).
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Tutors

*Mr. Method Msombe MDE – (IRDP Dodoma), BA - Education Economics and Geography – (UDSM).

Tutorial Assistants

CPA Abdallah Sadiki Bachelor of Commerce in Accounting – (UDOM), CPA (T).

Mr. Issaya Harhombo BA Economics – (UDOM).

Mr. Denis S Michael BATF – (NIT).

Ms. Marietha Hyera BATF – (NIT).

***On Study leave**

7.3 FACULTY OF TRANSPORT ENGINEERING AND TECHNOLOGY

The faculty is responsible for planning, organizing and conducting of engineering related programmes. The faculty 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 Civil & Transportation, Mechanical & Automobile, Electrical and Telecommunication Engineering. Further, it is engaged in developing resourceful low level operational transport manpower (drivers, transport officers, safety prcticoners e.t.c) with extensive knowledge and hands-on skills applicable in every transportation field. To this level, both special and general subjects are integrated into the short courses training and seminar programs. This helps trainees learn the basics as well as the applied technics in safe and effective transport operations, in compliance with various Legal requirements. Currently the Faculty is conducting the one masters program in Mechanical Engineering with Transportation Machinery, Bachelor's Degree (NTA Level 7-8), Ordinary Diploma (NTA Level 6) and Certificate (NTA Level 4-5) Programmes in various Engineering Displines. The faculty consist of four department namely Automotive and Mechanical, Civil and Transportation, Electrical, Electronocs and Telecommunication Engineering and Transport Safety and Environmental Studies (TSES).

7.3.1 Department of Automative and Mechanical Engineering

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 and Automobile Engineering.

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.

7.3.2.1. General Course in 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 05104G	Industrial Practical Training	
Total Credits			63

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

7.3.2.2.1. 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
Fundamentals 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	Total 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) Awards

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.

7.3.2.2.2. 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.

7.3.2.3. Ordinary Diploma in Automobile Engineering Programme

7.3.2.3.1. 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) Awards

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.

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

7.3.2.3.3. Ordinary 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) Awards

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

7.3.2.4. General Course in 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

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

7.3.2.5.1. 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) Awards

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.

7.3.2.5.2. Bachelor's Degree in Mechanical 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 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 Realibility and Maintenance	9
6.	MEU 08110	Project Conceptulization	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.

7.3.2.6. Ordinary Diploma in Mechanical Engineering Programme

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

(a) **Purpose of 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) **Modules Summary**

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.

7.3.2.6.2 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) **Modules Summary**

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

7.3.2.6.3. Ordinary 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) **Modules Summary**

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 Ordinary Diploma in Mechanical Engineering of the National Institute of Transport.

7.3.2.7. Ordinary Diploma in Mechanical Engineering and Railway Vehicle Technology Programme

7.3.2.7.1. 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 include; 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.

7.3.2.7.2. 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 successful 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.

7.3.2.7.3. Ordinary 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 Ordinary Diploma in Mechanical Engineering and Railway Vehicle Technology of the National Institute of Transport.

7.3.2.8. Ordinary Diploma in Automobile Engineering and Locomotive Technology Programme

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

(a) Purpose of Qualifications

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.

7.3.2.8.2. Technician Certificate (NTA Level 5) in Automobile Engineering and Locomotive Technology**(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.

7.3.2.8.3. Ordinary 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 Ordinary Diploma in Automobile Engineering and Locomotive Technology of the National Institute of Transport.

7.3.2.9. 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 : 3 days 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

7.3.2.10 Academic Staff

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 Lecturer

**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. Mgay

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

*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).

Ms. Lydia T. Kamugisha

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

Mr Nyimila Anosisye

MSc. in Railway Engineering (Rolling Stock) (Addis Ababa), B. Mech. Eng. (DIT), FTC in Mech. Eng. (Mbeya Tech.)

Tutorial Assistants

Mr. Jeferson B. Maisson

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

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).

Ms. Geriwalda S. Mushi

B. Eng. Automobile (NIT).

Mr. Mazuri Lutema

BME – ((NIT).

Mr. Kelvin E. Ojango

B. Eng. Mechanical – (DIT), Diploma in Eng. Mechanical
Engineering – (DIT)

Mr. Faraja Nyangasa

BAE – (NIT).

Mr. Abdul-Sadiq Ahmed

BME – (NIT).

Mr. Merikiory B. Njawala

BME – (NIT), Diploma in Computer Engineering (DIT).

Laboratory Technicians

Mr. Emmanuel M. Mng'ong'o

DAE - (NIT).

Mr. Ally Kilimila

DAE – (NIT)

Mr. Hamad C. Mngwai

DAE (NIT)

Mr. Joseph V. Mhindi

Dip in Mechanical Engineering (DIT)

*** On study Leave**

****On Secondment Term**

7.3.2 Department of Civil and Transportation Engineering

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 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.

7.3.2.1 General Courses Programme for Civil and Rail 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 4105G	Construction Materials	6
2.	CTT 4106G	Basic of Transportation Engineering	6
3.	CTT 4108G	Basics of Technical Drawing	9
4.	CTT 4109G	Workshop Technology (<i>Painting, Carpentry, Masonry and Plumbing</i>)	9
5.	CTT 4213G	Linear Survey	9
6.	CTT 4211G	Arc and Gas Welding	6
7.	CTT 6106G	Basic of Pipeline Engineering	6
Fundamental Modules			
8.	CTT 4103G	Basic Computer Applications	6
9.	CTT 4104G	Basic Engineering Physics	6
Total Credits			63

SEMESTER II

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	CTT 4214G	Engineering Mechanics	6
2.	CTT 4215G	Basic Railway Construction and Maintenance	9
3.	CTT 5218G	Basic Airport, Port and Harbour Construction and Maintenance	6
4.	CTT 4218G	Bulding Construction and Maintenance	6
5.	CTT 5102G	Strenght of Material	6
6.	CTT 5111G	Road Construction and Maintenance	6
7.	CTT 4107G	Basic Soil Mechanics	9
8.	CTT 4216G	Workshop Technology (Electrical Installation and Air Condition)	6
Fundamental Modules			
9.	CTT 4102G	Basic Communication Skills	6
Total Credits			60

7.3.2.2. Bachelor's Degree (NTA Level 7-8) Programme in Civil and Transportation Engineering Programme

7.3.2.2.1. Higher Diploma (NTA Level 7) in Civil and Railway Engineering

(a) Purpose of the Qualification

This qualification is intended for a person who will be able to apply knowledge, skills and understanding in a range of complex technical activities. These activities include design; material investigations, managing and testing at site and laboratory; conducting periodic defect liability inspections and audit; civil and railway infrastructure accident investigations; drawings and progressive report preparations and supervision of works.

Furthermore, will be able to carry out research in product and equipment improvements, operating and maintaining measuring equipment, provision of excellence technical customer services and a person of higher degree of responsibility.

(b) Summary of Modules

SEMESTER I

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	CRU 07104	Construction Materials	9
2.	CRU 07105	Concrete Technology	9
3.	CRU 07106	Strength of Materials	6
4.	CRU 07107	Engineering Geology	3
5.	CRU 07108	Railway Systems Engineering	6
6.	CRU 07109	Hydraulics and Fluid Mechanics	9
7.	CRU 07110	Land Survey	9
Fundamental Modules			
8.	CRU 07101	Technical Communication Skills	6
9.	CRU 07102	Programming Principles	6
10.	CRU 07103	Linear Algebra	6
Total Credits			69

SEMESTER II

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	CRU 07203	Determinate Structures Analysis	9
2.	CRU 07204	Building Construction and Maintenance	6
3.	CRU 07205	Computer Aided Design	6
4.	CRU 07206	Railway Construction and Maintenance	6
5.	CRU 07207	Remote Sensing and GIS Application	6
6.	CRU 07208	Road Construction and Maintenance	6
7.	CRU 07209	Soil Mechanics	9

Fundamental Modules			
8	CRU 07201	Development Studies	6
9	CRU 07202	Integral Calculus	6
Total Credits			60

SEMESTER III

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	CRU 07302	Indeterminate Structures Analysis	9
2.	CRU 07303	Geotechnics and Foundation Engineering	6
3.	CRU 07304	Hydrology Engineering	6
4.	CRU 07305	Industrial Practical Training	12
5.	CRU 07306	Railway Geometric Design	6
6.	CRU 07307	Highway Geometric Design	6
7.	CRU 07308	Traffic Engineering	6
8.	CRU 07309	Water Supply Engineering	6
Fundamental Modules			
9.	CRU 07301	Differential Calculus	6
Total Credits			63

SEMESTER IV

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	CRU 07404	Pavement and Materials Design	9
2.	CRU 07405	Railway Track Design	9
3.	CRU 07406	Reinforced Concrete Design	6
4.	CRU 07407	Road and Railway Drainage Systems	6
5.	CRU 07408	Wastewater Management	6
Fundamental Modules			
6.	CRU 07401	Probability and Statistics	6
7.	CRU 07402	Procurement and Supply Procedures	6
8.	CRU 07403	Research Methodology	6
Total Credits			54

(c) Awards

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

7.3.2.2.2 Bachelor's Degree (NTA-Level 8) in Civil and Railway Engineering

(a) Purposes of the Qualification

This qualification is intended to persons, who will conduct a variety of activities including; project identification, planning, design, and appraisal, preparation of technical and financial proposals of construction works and contract documents preparation. Supervise and monitor civil and railway construction works, reviewing contractual claims and conduct periodic defect liability inspections/audit. Also, participate in conducting civil and railway infrastructure accident investigations.

(a) Summary of Modules

SEMESTER I

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	CRU 08102	Construction Management	9
2.	CRU 08103	Project Conceptualization	9
3.	CRU 08104	Industrial Practical Training	12
4.	CRU 08105	Railway Safety and Risk Management	9
5.	CRU 08106	Railway Modelling and Simulation	9
6.	CRU 08107	Structural Steel and Timber Design	9
	CRU 08108	Pre-Stressed Concrete Design	9
Fundamental Modules			
7.	CRU 08101	Engineering Entrepreneurship	6
Total Credits			72

SEMESTER II

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	CRU 08202	Airport, Port and Harbour Planning and Design	9
2.	CRU 08203	Bridge and Tunnel Design and Construction	9
3.	CRU 08204	Project Implementation	12
4.	CRU 08205	Railway Transport Planning and Operations Management	9
5.	CRU 08206	Environmental Engineering	6
Fundamental Modules			
7.	CRU 08201	Professional Ethics	6
Total Credits			51

(c) Award

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

7.3.2.3. Ordinary Diploma in Civil and Transport Engineering Programme

7.3.2.3.1. 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 (Painting, Carpentry, Masonry and Plumbing)	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 (Electrical Installation and Air condition)	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.

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

(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 Methodology	6
Total Credits			57

(c) Award

Upon successful 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.

7.3.2.3.3. Ordinary 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 Module

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
Elective 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

Elective 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			60

(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

7.3.2.4 Academic Staff

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).

Lecturers

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

Assistant Lecturers

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

Mr. Chacha L. Mwita MSc. Project Management for Environmental and Energy Engineering (IMT Atlantique - France), BSc. Mechanical Engineering - (UDSM).

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.)

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).

Ms. Sakina M. Juma MSc in Railway Engineering (Civil Infrastructure) (Addis Ababa), B. Eng. Civil - (DIT).

Tutorial Assistants

*Mr. Juma K. Ngoda B.Eng. Civil (SJUT).

Senior Tutors

**Mr. Jerive Malaki MSc Engineering and Maintenance Management (DIT), Postgraduate Diploma in Road Safety Management (NIT), Advanced Diploma in Auto-Eng (NIT).

Tutors

Mr. William Venge	PGD in RSM (NIT), DAE – (NIT).
Mr. Alatupoka E. Mgeni	Bsc in Civil Engineering (UDSM).
Mr. Constantine G. Ngaa	Bsc in Civil Engineering (UDSM).

* On study Leave

**On Secondment Term

7.3.3 Department of Electrical, Electronics and Telecommunication Engineering

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 Electrical, Locomotive Electronics, Telecommunication, railway electrification, Engineering Sciences and Technology.

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.

7.3.3.1 Ordinary Diploma (NTA Level 4-6) in Electrical Engineering Programme

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

(a) Purpose of Qualification

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

(b) Modules Summary

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.

7.3.3.1.2. Technician Certificate in Electrical 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 electrical systems.

(b) Modules Summary**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			67

(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.

7.3.3.1.3. Ordinary Diploma in Electrical Engineering

(a) Purpose of 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) Modules Summary

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 Ordinary Diploma in Electrical Engineering of the National Institute of Transport.

7.3.3.2. Ordinary Diploma in Electronics and Telecommunication Engineering Programme

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

(a) Purpose of Qualification

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

(b) **Modules Summary**

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.

7.3.3.2.2. 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) **Modules Summary**

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	Total 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.

7.3.3.2.3. Ordinary Diploma in Electronics and Telecommunication Engineering

(a) **Purpose of 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) **Modules Summary**

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 Ordinary Diploma in Electronics and Telecommunication Engineering of the National Institute of Transport.

7.3.3.3. Ordinary Diploma in Auto-Electrical and Electronic Engineering Programme

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

(a) **Purpose of 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) **Modules Summary**

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 successfully 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.

7.3.3.3.2. Technician Certificate in Auto-Electrical and Electronic Engineering

(a) **Purpose of 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) **Modules Summary**

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
Total Credits			63

(c) **Award**

On successfully 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.

7.3.3.3.3. Ordinary Diploma in Auto-Electrical and Electronic Engineering

(a) **Purpose of 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) **Modules Summary**

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 an Ordinary Diploma in Auto-Electrical and Electronic Engineering of the National Institute of Transport.

7.3.3.4. Ordinary Diploma in Electrical and Railway Electrification Engineering Programme

7.3.3.4.1. 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.

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

(a) **Purpose of 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.

7.3.3.4.3. Ordinary 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 Module**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 Ordinary Diploma in Electrical and Railway Electrification Engineering of the National Institute of Transport.

7.3.3.5. Ordinary Diploma in Telecommunication and Railway Signalling Engineering Programme

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

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

(a) **Purpose of 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.

7.3.3.5.3. Ordinary 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 Module**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 Ordinary Diploma in Telecommunication and Railway Signalling Engineering of the National Institute of Transport.

7.3.3.6. Academic Staff

Assistant Lecturers

*Ms. Elizabeth Ngatunga	MSc. Information Technology and Management – (ADU – India).
Mr. Christian S Nabora	BSc. Telecommunications Engineering – (UDSM). MSc. Sustainable Renewable Energy Engineering (NM-AIST), B.Eng. Automobile (NIT).
Mr. Chacha L. Mwita	MSc. Project Management for Environmental and Energy Engineering (IMT Atlantique – France), BSc. Mechanical Engineering – (UDSM).
Mr. Paul Wilson	MSc Power System and High Voltage (UDSM), BSc. in Elect. Eng. (UDSM).
*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).
Ms. Grace Kibweja	MSc. Railway Engineering (Traction & Train Control) – (Addis Ababa University, Ethiopia), B.Eng. in Electronical and Electronics – (SJUT).

Tutorial Assistants

Mr. Walter S. Maanga	B. Eng Electronics and Communication (SJUT).
*Mr. Emmanuel P. Mgisha	B.Eng. Electrical – (MUST), Diploma in Electronics and Telecommunication Engineering – (DIT).

Tutors

Mr. Enock Mjwahuzi	B.Eng. Electronics and Telecommunications (SJUT).
Mr. Merikiory B. Njawala	BME – (NIT), Diploma Computer in Engineering (DIT).

Laboratory Technicians

Mr. Hemed Mwijae Jafari	Dip in Electronics and Telecommunication Eng. – (DIT).
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* On study Leave

**On Secondment Term

7.3.4. Department of Transport Safety and Environmental Engineering

7.3.4.1. 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.

7.3.4.2. 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

(f) 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

(g) Heavy Goods Vehicles (HGV) Course

Objective

(i) 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,

(ii) To reduce vehicles operating cost,

(iii) To increase reliability.

Duration: 15 days.

(h) Defensive Driving Training (DDT)

Objective

To impart safe driving knowledge and techniques to drivers in order to avoid road crashes.

Duration: 5 days.

(i) Senior Drivers' Course

Objective

To produce a Driver with ultimate skills of fleet management.

Duration: 6 weeks.

(j) Forklift Operator Training

Objective

(i) To ensure the safe and proper use of Powered Industrial Trucks (PITs),

(ii) 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

(k) Driving Examiners Course

Objective

To impart knowledge to know how to examine a potentially good driver for safe motor vehicle operation.

Duration: 10 weeks

(l) 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

(m) 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

(n) 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

7.3.4.3. 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.

7.3.4.4. Academic Staff

Instructors/Facilitators

Dr. Nuru Kitara	PhD in Environmental Sciences (SUA) MSc. in Environmental Sciences (Zurich 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. Environmental 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).

7.4 FACULTY OF MARITIME TRANSPORT AND PETROLEUM TECHNOLOGY

7.4.1. Department of Maritime Transport Management

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 Maritime transport and Petroleum Technology. 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.

7.4.1.1. Ordinary Diploma (NTA Level 4-6) in Freight Clearing and Forwarding Programme

7.4.1.1.1. Basic Technician Certificate (NTA Level 4) in Freight Clearing and Forwarding

(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 Business of Communication	9
5.	ITT 04101	Basic Computer Knowledge	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.

7.4.1.1.2. Technician Certificate (NTA Level 5) in Freight Clearing and Forwarding

(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
4.	ITT 05101	Basic Computer Applications	9
5.	LTT 05103	Principles of Accounting	12
6.	FCT 05103	Industrial Training	12
Total Credits			72

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.

7.4.1.1.3. Ordinary Diploma (NTA Level 6) in Freight Clearing and Forwarding

(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 Ordinary Diploma in Freight Clearing and Forwarding of the National Institute of Transport.

7.4.1.2. Bacheor's Degree (NTA Level 7-8) in Shipping and Port Logistics Management Programme

7.4.1.2.1. 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.

7.4.1.2.2. 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.

7.4.1.3. Ordinary Diploma (NTA Level 4-6) in Shipping and Port Logistics Operations Programme

7.4.1.3.1. 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) **Awards**

Candidate who successful 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.

7.4.3.1.2. Technician Certificate (NTA Level 6) 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
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) **Awards**

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.

7.4.3.1.3. Ordinary 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) **Awards**

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

7.4.4. Academic Staff

Lecturers

Prof. Dr. Erick
Massami

PhD in Logistics Engineering and Management – (DMU, China),
Mphil.in Maritime Studies – (Stellenbosch University, S.A), BPhil
Cum-Laude Maritime 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. Epimachus M. Burchard	MSc in Maritime Affairs (Shipping Management and Logistics Engineering and Management) – (Dalian Maritime University, China), BLTM – NIT.
Mr. Joseph Luanda	Master of Sciences and Technology in Mining and Metallurgy (Oran), Bachelor of Sciences and Technology in Marine Engineering (Oran).
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).

Senior Tutors

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

7.4.5. Department of Marine, Oil and Gas Engineering

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 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.

7.4.5.1. Ordinary Diploma (NTA Level 4-6) in Shipbuilding and Repair Programme

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

(a) Purpose of Qualifications

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

7.4.5.1.2. Technician Certificate (NTA Level 5) 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.

7.4.5.1.3. Ordinary Diploma (NTA Level 6) 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 Ordinary Diploma in Shipbuilding and Repair of the National Institute of Transport.

7.4.5.2. Ordinary Diploma (NTA Level 4-6) in Pipe works, Oil and Gas Engineering Programme

7.4.5.2.1. 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 Credits			67

SEMESTER II

S/No.	Module Code	Module Name	Total 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 Credits			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.

7.4.5.2.2. Technician Certificate (NTA Level 5) in Pipe works, Oil and Gas Engineering

(a) Purpose of 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) Modules Summary

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.

7.4.5.2.3. Ordinary Diploma (NTA Level 6) in Pipe works, Oil and Gas Engineering

(a) Purpose of 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) Modules Summary

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 Ordinary Diploma in Pipe works, Oil and Gas Engineering of the National Institute of Transport.

7.4.5.3. General Course in 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.

(d) **Modules Summary**

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

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

7.4.5.4.1. 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 Module

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 Hydrodynamics	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
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.

7.4.5.4.2. 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) **Modules Summary**

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.

7.4.5.5. Academic Staff

Assistant Lecturers

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. Johnson J. Kasali	MSc. Oil and Natural Gas Engineering (China University of Geosciences – Wuhan), BSc. Electro – Mechanical (UDSM).
Mr. Joseph Luanda	Master of Sciences and Technology in Mining and Metallurgy (Oran), Bachelor of Sciences and Technology in Marine Engineering (Oran).
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. Latifa Mzara	MSc in Marine Technology – Atlantic Masters in Ship Operations and Naval Engineering (AMASONE) – (Ecole central de Nantes dv. Diploma in Marine, France), Adv Dip in Marine Engineering Technology (DMI).

Tutors

Mr. Abdul S. Umande Bachelor Degree in Marine Engineering Technology (DMI).

* On study Leave

**On Secondment Term

7.5 FACULTY OF AVIATION TECHNOLOGY

The Faculty of Aviation Technology is responsible for planning, organizing and conducting aviation related programmes. The Faculty 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 aircraft maintenance engineering, flying for pilots and cabin crew, flight operations, airport operations, ground handling, air transport management, and travel & tourism services. Currently, the Faculty of Aviation Technology has two departments namely Department of Aeronautical Engineering and Department of Flying and Operations Management.

7.5.1 Aeronautical Engineering Department

The Department of Aeronautical Engineering offers a Bachelor's Degree in Aircraft Maintenance Engineering (NTA Level 7-8) and Diploma in Aircraft Maintenance Engineering (NTA Level 4-6).

7.5.1.1. General Course in Aircraft Maintenance Engineering

(a) Purpose of Qualification

This qualification is intended for a person, who will acquire knowledge, attitude, skills of Engineering and transform them into practices, work independently in various sections of Aircraft Maintenance Engineering and Operation. This will give the student the required minimum entry qualification to NTA Level 7 I.

(b) Modules Summary

SEMESTER I

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	AMT 4112G	Basic Aerodynamics	9
2.	AMT 4113G	Workshop Practice	12
3.	AMT 4211G	Aircraft Structure	6
4.	AMT 4212G	Piston Engine	6
5.	AMT 4214G	Aircraft Gas Turbine Engine	6
6.	AMT 5211G	Aircraft Equipment and Furnishings	9
7.	AMT 5110G	Aircraft Fuel Systems	9
8.	AMT 5115G	Ice and Rain Protection Systems	6
Fundamental Modules			
9.	AMT 4209G	Basic Computer Applications	6
10.	AMT 6107G	Human Factor	9
11.	AMT 5215G	Air Law	3
Total Credits			63

SEMESTER II

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	AMT 5104G	Engine Lubrication and Cooling Systems	6
2.	AMT 5105G	Engine Fuel Control and Induction Systems	6
3.	AMT 5106G	Engine Ignition and Starting Systems	6
4.	AMT 5201G	Aircraft Electrical Systems	6
5.	AMT 5202G	Aircraft Instruments Systems	6
6.	AMT 5209G	Engine Instruments Systems	9
7.	AMT 5210G	Aircraft Flight Control Systems	6
8.	AMT 6109G	Radio Navigation and Communication	9
9.	AMT 5212G	Aircraft Environment Systems	9
10.	AMT 5114G	Fire Detection and Protection	9
Fundamental Modules			
11.	AMT 6101G	Air Regulations	3
Total Credits			81

7.5.1.2. Bachelor's Degree (NTA Level 7-8) in Aircraft Maintenance Engineering Programme

The programme comprises two levels – Higher Diploma (NTA Level 7) and Bachelor's Degree (NTA Level 8). Higher Diploma has 4 Semesters (equivalent to 2 years) and Bachelor's Degree has 2 Semesters (equivalent to 1 year). Therefore, (NTA Level 7) is an entry qualification to (NTA Level 8).

7.5.1.2.1 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 07114	Fluid Mechanics	6
2.	AMU 07115	Electrical and Electronic Fundamentals	6
3.	AMU 07116	Digital Techniques	9
4.	AMU 07117	Aircraft Materials Process and Hardware	9
5.	AMU 07118	Manual Engineering Drawing	6
6.	AMU 07119	Aircraft Reciprocating Engine	9
Fundamental Modules			
7.	AMU 07112	Linear Algebra	6
8.	AMU 07113	Technical Communication Skills	6
Total Credits			57

SEMESTER II

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	AMU 07220	Aircraft Gas Turbine Engine Maintenance	9
2.	AMU 07221	Aircraft Reciprocating Engine Maintenance	9
Fundamental Modules			
3.	AMU 07214	Integral Calculus	6
4.	AMU 07215	Development Studies	6
5.	AMU 07218	Strength of Materials	9
6.	AMU 07219	Advanced Engineering Thermodynamics	9
7.	AMU 07222	Computer Programming	6
Total Credits			66

SEMESTER III

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	AMU 07314	Industrial Practical Training	12
2.	AMU 07315	Applied Mechanics	9
3.	AMU 07316	Composite Materials	9
4.	AMU 07317	Aircraft Wooden Structure	6
5.	AMU 07318	Aircraft Fabric	6
6.	AMU 07319	Hydraulic and Pneumatic Systems	9
Fundamental Modules			
7.	AMU 07313	Differential Calculus	6
Total Credits			54

SEMESTER IV

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	AMU 07416	3D Engineering Graphics	9
2.	AMU 07417	Aircraft Landing Gear Systems	9
3.	AMU 07418	Aircraft Propeller Systems	9
4.	AMU 07419	Flight Management Systems	9
5.	AMU 07420	Aeroplane Structure	9
6.	AMU 07421	Helicopter Structure and Systems	9
7.	AMU 07422	Human Factor	6
Fundamental Modules			
8.	AMU 07414	Probability and Statistics	6
9.	AMU 07415	Research Methodology	6
Total Credits			72

(c) Award

On successful 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.

7.5.1.2.2. 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 08107	Project Conceptualization	9
2.	AMU 08108	Aircraft Maintenance Planning and Management	9
3.	AMU 08109	Aircraft Systems Maintenance	9
4.	AMU 08110	Line Maintenance Practice	9
5.	AMU 08111	Aircraft Structural Analysis	12
6.	AMU 08112	Aircraft Stability and Control	12
7.	AMU 08115	Industrial Practical Training	12
Fundamental Modules			
8.	AMU 08113	Entrepreneurship Skills	6
9.	AMU 08114	Air Law & other Regulations	6
Total Credits			84

SEMESTER II

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	AMU 08203	Project Realization	12
2.	AMU 08204	Internship	30
Total Credits			42

(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.

7.5.1.3. Ordinary Diploma (NTA Level 4-6) in Aircraft Maintenance Engineering Programme**7.5.1.3.1 Basic Technician Certificate (NTA Level 4) in Aircraft Maintenance Engineering****(a) Purpose of the Qualification**

This qualification is intended for a person who will perform simple and routine aircraft maintenance under full supervision.

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

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	AMT 04112	Basic Aerodynamics	9
2.	AMT 04113	Workshop Practice	12
3.	AMT 04114	Aircraft Materials and Hardware	9

S/No.	Module Code	Module Name	Credits
Fundamental Modules			
4.	AMT 04101	Aviation Mathematics	6
5.	AMT 04102	Aviation Physics	9
6.	AMT 04103	Aviation Chemistry	6
7.	AMT 04109	Basic Engineering Drawing	9
8.	AMT 04110	Basic Communication Skills	6
9.	AMT 04115	Electrical Fundamentals	9
Total Credits			75

SEMESTER II

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	AMT 04211	Aircraft Structure	6
2.	AMT 04212	Piston Engine	6
3.	AMT 04213	Aircraft Propellers	6
4.	AMT 04214	Aircraft Gas Turbine Engine	6
Fundamental Modules			
6.	AMT 04207	Electronics Fundamentals	9
7.	AMT 04208	Engineering Materials	6
8.	AMT 04209	Basic Computer Applications	6
9.	AMT 04210	Digital Techniques	6
Total Credits			51

(c) Award

A candidate who successfully completes the programme and wishes to exit is awarded the Basic Technician Certificate in Aircraft Maintenance Engineering of the National Institute of Transport.

7.5.1.3.2 Technician Certificate (NTA Level 5) in Aircraft Maintenance Engineering

(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 engineering works in different types of aircraft. The works include maintenance, regular checks, troubleshooting, repair, and component replacement of all mechanical, hydraulic, electrical, and related powered equipment on an aircraft.

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

S/No.	Module Code	Module Title	Credit
Core Module			
1.	AMT 05104	Engine Lubrication and Cooling Systems	6
2.	AMT 05105	Engine Fuel Control and Induction Systems	9
3.	AMT 05106	Engine Ignition and Starting Systems	6
4.	AMT 05110	Aircraft Fuel Systems	9
5.	AMT 05111	Aircraft Hydraulic and Pneumatic Systems	6
6.	AMT 05112	Industrial Practical Training	12
7.	AMT 05114	Aircraft Flight Control Systems	6
8.	AMT 05115	Aircraft Landing Gear Systems	9
Fundamental Modules			
9.	AMT 05113	Principles of Entrepreneurship	6
Total Credits			69

SEMESTER II

S/No.	Module Code	Module Title	Credit
Core Module			
1.	AMT 05201	Aircraft Electrical Systems	6
2.	AMT 05202	Aircraft Instruments Systems	6
3.	AMT 05209	Engine Instruments Systems	9
4.	AMT 05210	Fire Detection and Protection	9
5.	AMT 05211	Aircraft Equipment and Furnishings	9
6.	AMT 05212	Aircraft Environment Systems	9
7.	AMT 05213	Ice and Rain Protection Systems	6
8.	AMT 05214	Computer Aided Drafting	6
Total Credits			60

(c) Award

A Candidate who successfully completes the programme and wishes to exit is awarded the Technician Certificate in Aircraft Maintenance Engineering of the National Institute of Transport.

7.5.1.3.3. Diploma in Aircraft Maintenance Engineering**(a) Purpose of the Qualification**

This qualification is intended for a person who will be able to perform a broad range of activities most of which are non-routine. Such activities include overhaul and modifications, 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 06108	Aircraft Maintenance Planning and Management	9
2.	AMT 06109	Radio Navigation&Communication	9
3.	AMT 06110	Aircraft Maintenance and Repa	12
4.	AMT 06111	Power Plant Maintenance and Repair	12
5.	AMT 06112	Project Proposal	9
6.	AMT 06113	Industrial Practical Training	12
Fundamental Modules			
7.	AMT 06101	Air Law and Regulations	6
8.	AMT 06107	Human Factor	9
9.	AMT 06114	Development Studies	6
Total Credits			84

SEMESTER II

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	AMT 06210	Internship	30
2.	AMT 06211	Project Implementation	12
Total Credits			42

(c) Award

On successfully completion of the programme, candidates are awarded the Ordinary Diploma in Aircraft Maintenance Engineering of the National Institute of Transport.

7.5.1.4. Academic Staff

Lecturers

Dr. Benjamin W. Ndimila PhD in Production Engineering - (UDSM), MSc. Mechanical Engineering (Liftmg Mechanisms, Construction and Road Machnes and Equipments) - (Kharkov State Automobile abd Highway Technical University, Ukraine), FTC Mechancial Engineering - (DIT), Member of ERB, Registered Professional Mechanical Engineer.

Assistant Lecturers

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).

*Mr. Edwin W. Isidory MSc. in Aerospace Vehicle Design specialized in Avionic Systems Design - (Cranfield University - UK), BSc. in Electronic Science and Communication - (UDSM).

Ms Merina A. Mwasandube MSc. in Flight Vehicle Design – (Nanjing University of Aeronautics & Astronautics), BSc. in Aeronautical Engineering (Aircraft Manufacturing) – (Shenyang Aerospace University - China), Human Factors Train of Trainer – (AFRAA), Safety Management System Train of Trainer – (AFRAA), Instructional Techniques Train of Trainer – (AFRAA).

Tutorial Assistants

*Mr. Abubakar K. Noor BSc. in Aeronautics (Aircraft Propulsion) – (University of Blida, Algeria), 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), Human Factors Train of Trainer – (AFRAA).

*Mr. Ahmed A. Mohamed Bsc. in Aeronautical Engineering (Aircraft Manufacturing) – (Shenyang Aerospace University, China), Ordinary Diploma in Aircraft Maintenance Engineering – (Regional Aviation College).

Mr. Honest E. Mrosso Bachelor’s Degree in Aircraft Maintenance Engineering – (NIT), Quality Management System Train of Trainer – (AFRAA).

Mr. Said J. Maulid Bachelor’s Degree in Aircraft Maintenance Engineering – (NIT), Quality Management System Train of Trainer – (AFRAA), Safety Management System Train of Trainer – (AFRAA).

Mr. Makame A. Hamad Bachelor’s Degree in Aircraft Maintenance Engineering – (NIT), Quality Management System Train of Trainer – (AFRAA), Safety Management System Train of Trainer – (AFRAA), Crew Resource Management Train of Trainer – (AFRAA).

Tutors

*Mr. Ayubu M. Kedmundi Bachelor’s Degree in Aircraft Maintenance Engineering – (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 Bachelor’s Degree in Aircraft Maintenance Engineering – (NIT), Diploma in Automobile Engineering – (NIT).

Mr. Isaya Kephace Bachelor of Engineering in Electronics and Telecommunication Engineering – (DIT), Safety Management System – (IATA), Crew Resource Management – (IATA), Quality Management System – (IATA).

Laboratory Technician

Ms. Samira A. Said Ordinary Diploma in Aircraft Maintenance Engineering – (NIT).

Mr. Samwel R. Ophoro Ordinary Diploma in Aircraft Maintenance Engineering – (NIT), Diploma in Aircraft Maintenance – (EAA, Ethiopia), Basic Aircraft Maintenance Engineers Licence – (ECAA, Ethiopia).

Mr. Masoud H. Ali Ordinary Diploma in Aircraft Maintenance Engineering – (NIT), Diploma in Aircraft Maintenance – (EAA, Ethiopia), Basic Aircraft Maintenance Engineers Licence – (ECAA, Ethiopia).

Mr. Bakari Y. Ngunde Ordinary Diploma in Electronics and Telecommunication Engineering – (DIT), Diploma in Aircraft Maintenance – (EAA, Ethiopia), Basic Aircraft Maintenance Engineers Licence – (ECAA, Ethiopia), Quality Management System Train of Trainer – (AFRAA), Safety Management System Train of Trainer – (AFRAA), Human Factors Train of Trainer – (AFRAA), Instructional Techniques Train of Trainer – (AFRAA).

Mr. Hemed M. Jafar Ordinary Diploma in Electronics and Telecommunications Engineering – (DIT), Diploma in Aircraft Maintenance – (EAA, Ethiopia), Basic Aircraft Maintenance Engineers Licence – (ECAA, Ethiopia), Human Factors – (AFRAA), Quality Management System – (AFRAA), Instructional Techniques – (AFRAA).

*Mr. Brian B. Kahwa

***On study leave**

7.5.2. Flying and Operations Management Department

7.5.2.1 Organization of Courses

The Department of Flying and Operations Management conducts aviation professional short courses, including ab-initio and recurrent courses, which are run by the Institute under Tanzania Civil Aviation Authority (TCAA) and International Air Transport Association (IATA) accreditations. Courses are developed and conducted basing on the applicable on industry requirements and regulatory requirements, currently in force.

7.5.2.2 Courses Conducted by the Department

(a) Cabin Crew Ab-Initio Course

Objective: The Cabin Crew Ab-Initio Course is ideal for candidates who have never attended any cabin crew training, looking to get ahead start in the profession. It is intended to equip candidates with sufficient and competitive knowledge, skills and attitudes necessary to qualify for licensing by TCAA as a Cabin Crew and be able to work for Airlines particularly providing excellent customer service, ensuring comfort and safety of passengers, managing in-flight medical emergencies, managing dangerous goods incidences, operating aircraft systems and equipment, managing in-flight security incidences, managing in-flight safety incidences, and handling of dignitaries.

Duration: 4 months

(b) Cabin Crew Recurrent Course

Objective: The course is conducted for in-service cabin crew whose licences are due for renewal. The objective is to equip Cabin Crew with the knowledge, attitude and skills necessary to maintain the proficiency.

Duration: 1 week

(c) Cabin Crew Aircraft Type (ATR 42/72 or Q-400)

Objective: The course is conducted for candidates who have completed the Cabin Crew Ab-Initio Course. The objective is to equip trainees with the knowledge, attitude and skills necessary to successfully work as Cabin Crew in a specific aircraft type.

Duration: 1 week

- (d) **Cabin Crew Qualification Course – Category I**
Objective: The course is conducted for Cabin Crew whose licences has lapsed or have not worked as a cabin crew for up to two (2) years. The objective is to equip Cabin Crew with the knowledge, attitude and skills necessary to maintain the recency.
Duration: 1 week
- (e) **Cabin Crew Qualification Course – Category II**
Objective: The course is conducted for Cabin Crew whose licences has lapsed or have not worked as a cabin crew for more than two (2) years. The objective is to equip Cabin Crew with the knowledge, attitude and skills necessary to maintain the recency.
Duration: 4 weeks
- (f) **Cabin Crew Qualification Course – Category III**
Objective: The course is conducted for candidates who have completed training in unapproved training institutions. The objective is to equip trainees with the knowledge, attitude and skills necessary to convert them into approved training standards and secure the cabin crew licences.
Duration: 4 weeks
- (g) **Flight Operations Officer Ab-Initio Course**
Objective: The Course is a professional course designed to equip candidates with sufficient and competitive knowledge, technical skills, and attitude necessary to undertake Airline operations and control. The course is a straight through ab-initio training conducted for candidates who have never attended flight operations training. Successful candidates will qualify for licensing by TCAA as Flight Operations Officer and be able to work for Airlines particularly in planning and monitoring flights, planning flight fuel, identifying feasible airports, establishing routes and alternate airports, balancing aircraft mass, acquiring and decoding weather information, flight crew scheduling, aircraft scheduling, and dispatching aircraft.
Duration: 9 months
- (h) **Flight Operations Officer Recurrent Course**
Objective: The course is conducted for flight operations officers/flight dispatchers whose licences are due for renewal or has lapsed for up to five (5) years. The objective is to equip the flight operations officers/flight dispatchers with the knowledge, attitude and skills necessary to maintain the proficiency.
Duration: 5 days
- (i) **Crew Resource Management**
Objective: In aviation industry, human error accounts for up to 80% of accidents. The objective of this course is to enable flight crew to examine the threat and error environments which are common in workplaces and provide the best practices to increase flight safety, optimize the utilization of staff, equipment and procedures to prevent errors and improve teamwork.
Duration: 3 days

- (j) **Crew Resource Management Recurrent**
Objective: The course is conducted in every two (2) years cycle for candidates with ab-initio training in crew resource management course. The objective is to equip trainees with the knowledge, attitude and skills necessary to maintain the proficiency.
Duration: 1 day
- (k) **Safety Management System**
Objective: The successful implementation of a Safety Management System reduces the rate and consequential cost of accidents and incidents. The objective this course is to enable staff to manage risks in operations through proactive risk assessment, mapping and mitigation actions and thereof evaluate their effectiveness through safety performance monitoring.
Duration: 5 days
- (l) **Safety Management System Recurrent**
Objective: The course is conducted in every two (2) years cycle for candidates with ab-initio training in safety management system course. The objective is to equip trainees with the knowledge, attitude and skills necessary to maintain the proficiency.
Duration: 2 days
- (m) **Human Factors**
Objective: This is the ab-initio training conducted for both ground and flight crew. The objective of this course is to enable candidates to identify and reduce human errors so as to improve safety and effectiveness in aviation operations.
Duration: 5 days
- (n) **Human Factors Recurrent**
Objective: The course is conducted in every two (2) years cycle for candidates with ab-initio training in human factors course. The objective is to equip trainees with the knowledge, attitude and skills necessary to maintain the proficiency.
Duration: 2 days
- (o) **Airport Operations Fundamentals**
Objective: In these challenging times, and with emerging competition from other airports and other modes of transportation, it is of the utmost importance that airports recruit and provide employees and managers with the best available knowledge and skills. This course was prepared to provide you with a solid overview of the airport operations field and with tools to apply your knowledge and skills to your airport. It is designed to be useful not only for your benefit but also to help you make better decisions for your organization.
Duration: 1 week
- (p) **GDS Fares and Ticketing - Amadeus**
Objective: This course will teach you how to price journeys for all types of fares using the Amadeus Global Distribution Systems (GDS). You will have hands-on practice using the interactive Global Distribution Systems (GDS) simulation tool, which will help you analyze GDS displays relevant to mileage system pricing; read, interpret, and apply mileage and routing fare rules; and issue tickets. The simulation training

is supported by an interactive workbook and reference notes on GDS commands, maps and key journey pricing terms and definitions.

Duration: 4 weeks

(q) Airline Marketing

Objective: Stay ahead of the competition by understanding and applying sound marketing principles. This course will provide you with an overview of the airline marketing principles so that you can comfortably create a marketing plan and execute it accordingly. We will cover the three main steps, analyzing, planning and execution as well as the main marketing tools used at each step, to develop a successful marketing plan.

Duration: 1 week

(r) Airline Customer Service

Objective: Drive outstanding customer service with the winning combination of knowledge, skills, and attitude. Frontline airline customer service professionals, such as ticket reservation staff, check-in and gate agents, and cabin crew, work in one of the most dynamic industries. In this course, we will examine how the Internet, social media and new technologies are changing airline customer service. We will discuss several examples of how airlines are keeping up with these changes to meet customer needs and stay competitive.

Duration: 1 week

7.5.2.3 Academic Staff

Senior Instructors

Mr. Denis W. Mwangeni	Masters of Business Administration (Marketing) – (OUT), Bachelor of Tourism Management – (SUA), 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), Leadership and Management Skills – (NIT).
Ms. Neema H. Lauwo	MSc. In Marketing – (MU), Bachelor of Art in Cultural Anthropology and Tourism – (TUICo), 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), Crew Resource Management Train of Trainer – (AFRAA).

Mr. Phabian P. Mongo Bachelor's Degree in Logistics and Transport Management – (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), Leadership and Management Skills – (NIT), Certification and Standardization of Approved Training Organizations – (CASSOA).

Mr. Makene Z. Masters of Tourism Planning and Management – (OUT), Masingili Bachelor of Tourism Management – (SUA), Certificate of Wildlife Management – (CAWM, MWEKA), 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).

Tutorial Assistant

*Mr. Eybernady M. Bachelor's Degree in Aircraft Maintenance Engineering – (NIT), Koddy Crew Resources Management Train of Trainer – (AFRAA).

Ms. Fatuma S. Ngamba Bachelor's Degree in Logistics and Transport Management – (NIT), Flight Operations Officer/Flight Dispatcher Certificate – (CATC), Quality Management System Train of Trainer – (AFRAA), Safety Management System Train of Trainer – (AFRAA), Crew Resources Management Train of Trainer – (AFRAA).

Instructor II

Mr. Marco K. Mutungi Bachelor of Engineering in Electrical and Electronics Engineering – (SJUIT), Commercial Pilot Licence with Multi-Engine Instrument Rating – (43 Air School, South Africa), Flight Instructor Rating – (Blue Chip Flight School, South Africa), 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. Bachelor of Engineering in Electronics and Communication – (SJUIT), Commercial Pilot Licence with Multi-Engine Instrument Rating – (Blue Chip Flight School, South Africa), 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. Anzaamen A. Nanyaro Bachelor of Engineering in Electronics and Communication – (SJUIT), Commercial Pilot Licence with Multi-Engine Instrument Rating – (43 Air School, South Africa), 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), Training Developers Course – (CATC), Training Developers Course (TDC) – (CATC), Crew Resource Management Train of Trainer – (AFRAA).
- *Mr. Clinton A. Rocky Bachelor’s Degree in Electrical and Electronics – (MUST), Diploma in Electrical Engineering – (DIT), Private Pilot Licence (Blue Chip Flight School, South Africa).
- *Mr. Ally R. Nchembi Bachelor’s Degree in Aircraft maintenance Engineering – (NIT), Crew Resources Management Train of Trainer – (AFRAA).

***On study leave**

7.6. FACULTY OF INFORMATICS AND TECHNICAL EDUCATION

Faculty of **Informatics and Technical Education** is responsible for planning, organizing and conducting **Informatics and Educational** related programmes. The Faculty endeavoured to develop its performance and ensure excellence in training, scientific research and consultancy services in the field of Mathematics, Education and Information Technology. Currently, the Faculty of **Informatics and Technical Education** has three departments namely Department of Computing and Communication Technology (CCT), Department of Humanities and Social Studies (HSS) and Department of Mathematics and Education (MEDU).

7.6.1. Department of Computing and Communication Technology

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.

7.6.1.1. Bachelor’s Degree (NTA Level 7-8) Programme in Information Technology Programme

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.

7.6.1.1.1. 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

S/No.	Module Code	Module Name	Credits
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) Awards

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.

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

(a) Purpose of 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 08108	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 08206C	Entrepreneurship	9
Total Credits			72

(c) Awards

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.

7.6.1.2. Ordinary Diploma in (NTA Level 4-6) in Information Technology Programme**7.6.1.2.1. Basic Technician Certificate (NTA Level 4) in Information Technology****(a) Purpose of 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) Awards

On successful 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.

7.6.1.2.2. Technician Certificate (NTA Level 5) in Information Technology**(a) Purpose of Qualification**

This qualification is intended for a person who will perform operations related to computer information systems, network and hardware configurations, design static websites, support end user applications and demonstrate entrepreneurship 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
Elective 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

S/No.	Module Code	Module Name	Credits
3.	ITT 05208	Basics of Website Design	9
4.	ITT 05209	Database Management System Concept	12
5.	ITT 05211	Field Practical Training	12
Elective 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.

7.6.1.2.3. Diploma (NTA Level 6) in Information Technology

(a) Purpose of 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

S/No.	Module Code	Module Name	Credits
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.

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

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.

7.6.1.3.1. 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.	CSU 07102	Electronics Concepts	12
2.	CSU 07103	Fundamentals of Computers	12
3.	CSU 07104	Programming Principles	12
Fundamental Modules			
4.	CSU 07101	Technical Communication Skills	6
5.	MIU 07105	Fundamentals of Mathematical Analysis	9
Total Credits			51

SEMESTER II

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	ITU 07210	Operating System Concepts	9
2.	ITU 07209	Database Concepts	9
3.	CSU 07201	System Analysis and Design	12
4.	ITU 07212	Computer Networking	12
5.	CSU 07202	Fundamentals of Web Programming	12

S/No.	Module Code	Module Name	Credits
Fundamental Modules			
6.	MIU 07214	Functions of Single Variables	9
Total Credits			54

SEMESTER III

S/No.	Module Code	Module Name	Credits
Core Modules			
1.	CSU07301	Industrial Practical Training I	12
2.	CSU 07303	Database Technologies	12
3.	CSU 07304	Digital Electronics	12
4.	CSU 07305	Data Structure and Algorithms	12
5.	CSU 07306	Data Communications	12
Fundamental Modules			
6.	CSU 07302	Development Studies	06
7.	MIU 07322	Mathematical Statistics and Stochastic Processes	09
Total Credits			75

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.

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

(a) Purpose of 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) Awards

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.

7.6.1.4. Academic Staff**Senior Lecturers**

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 – (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).
Dr. Nassoro M. Lwamo	PhD in Computer Science and Technology – (Beijing Institute of Technology- China), MSc. Computer Science – (UDOM), BSc. Computer Science – (UDSM).
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 Telecommunicaiton Engineering – (UDSM).

Senior Tutor

*Ms. Celina T. Mfala	MSc. in Information Technology and Management – (Avinishilangam University – India), Advanced Diploma in IT – (IAA).
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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)
Mr. Victor E. Shoo	B. Eng in Computer Engineering (DIT)

Tutor

Mr. Saidy Chang'a	BSc. Information Technoogy – (IFM), Diploma in Information Technology - (NIT).
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*Study Leave

** Secondment

7.6.2. Department of Humanities and Social Sciences

The Department is responsible for managing and teaching general modules, which are taught to different programmes in other departments.

7.6.2.1. Modules Managed by the Department

The modules managed by the department are:

- Development Studies;
- Communication Skills;
- Law;
- Research Methodology; and
- Education

7.6.2.2. Academic Staff

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. 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)

Dr. Clashon Onesmo PhD in Climate Change and Sustainable Development – (UDSM), M.A Natural Resource Management – (UDOM), B.A. Archeology and History– (UDSM).

Assistant Lecturers

*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. Sarah W. Mwakuyasa 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. Kristofa Mwageni M.A. Linguistics - (UDOM), B. Ed Language – (TEKU), Dip. Ed – (Morogoro TTC)

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. Edison Sanga MA Linguistic (UDOM), B. Ed in English and History (UDSM)

Mr. Francis M. Ching'ota M.A. in Development Management – (UDSM), B.A in Philosophy – (Jordan University College)

Senior Tutors

*Ms. Olipa Mahenge LLM– (UDSM), LLB – (UDSM).

*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. Peter S. Nzuzulima LLB - (MU)

* On Study Leave

7.6.3. Department of Mathematics and Education

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.

7.6.3.1. Modules Managed by the Department

The Modules which are managed by this Department are:

- (a) Mathematics;
- (b) Statistics;
- (c) Research Methodology; and
- (d) Education.

7.6.3.2. Bachelor's Degree (NTA Level 7-8) in Education with Mathematics and Information Technology Programme

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).

7.6.3.2.1. Higher Diploma (NTA Level 7) in Education with Mathematics and Information Technology

(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.	MIU 07101	Communication Skills	6
2.	MIU 07102	Principles of Education	6
3.	MIU 07103	Education Psychology	6
4.	MIU 07104	History of Education	6
5.	MIU 07105	Fundamentals of Mathematical Analysis	9
6.	MIU 07106	Linear Algebra	9
7.	MIU 07107	Statistics and Probability Theory	6
8.	MIU 07108	Fundamentals of Computer	6
9.	MIU 07109	Computer Programming Principles	9
Total Credits			63

SEMESTER II

S/No.	Module Code	Module Name	Credits
Core Modules			
10.	MIU 07210	Development Studies	6
11.	MIU 07211	Education Media and Technology	6
12.	MIU 07212	Teaching Practice I	12
13.	MIU 07213	Teaching Methods	9

14.	MIU 07214	Functions of a Single Variable	9
15.	MIU 07215	Numerical Analysis	9
16.	MIU 07216	Computer Architecture	9
17.	MIU 07217	Fundamentals of Computer Networks	9
Total Credits			69

SEMESTER III

S/No.	Module Code	Modules 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) Awards

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.

7.6.3.2.2. Bachelor's degree (NTA Level 8) in Education with Mathematics and Information Technology

(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
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			9

(c) Awards

On successfully completion of the programme, a candidate is awarded Bachelor of Education with Mathematics and Information Technology of the National Institute of Transport.

7.6.3.3. Academic Staff

Lecturers

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)
*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).
Ms. Kagemulo D. Muhaya	MSc. Mathematical Modeling– (UDSM), BEd in Mathematics – (TUICo), Dip. Ed. – (Morogoro T.T.C).
Ms. Doroth Manzo	MSc. Mathematical Modelling– (UDSM), BEd in Mathematics– (TUICo), Dip. Ed. – (Dar es Salaam T.T.C).
*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).
Ms. Regina V. Mkama	MA Education – (UDSM), BEd Psychology – (UDSM).
Ms. Verediana M. Mbalilo	MSc. in Mathematical Science – (Stellenbosch University, SA), BSc. with Education (informatics and Mathematics) – (SUA).
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. Ambakisyè 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)

Mr. Aristides M. Angelo M.A Education – (UDSM), B.Ed Linguistics – (UDSM), Cert in Educstion – (Katoke T.T.C).

Tutorial Assistants

*Mr. John Gweba BSc. Mathematics (DUCE), Dip. Education (Korogwe Teacher’s Collage).

*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).

Mr. Castory A. Nyenje BSc. with Education (Informatics and Mathematics) -(SUA).

Mr. Azizi M. Kipolelo BEMIT – (NIT).

Tutors

*Mr. Yusuph L. Reuben BEMIT - (NIT).

*** On Study Leave**

7.6.4. Department of Library and Information Studies

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.

7.6.4.1. Ordinary Diploma in Library and Information Studies Programme

7.6.4.1.1. Basic Technician Certificate (NTA Level 4) in Library and Information Studies

(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 Concepte 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 Credits			60

SEMESTER II

S/No.	Module Code	Module Name	Total 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 Credits			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.

7.6.4.1.2. Technician Certificate (NTA Level 5) in Library and Information Studies**(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	Total 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 Credits			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 Credits			60

(c) Award

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

7.6.4.1.3. Ordinary Diploma (NTA Level 6) 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) Modules Summary**SEMESTER I**

S/No.	Module Code	Module Name	Total 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 Credits			

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.

7.6.4.2. Diploma (NTA Level 4-6) in Records, Archives and Information Management Programme**7.6.4.2.1. Basic Technician Certificate (NTA Level 4) in Records, Archives and Information Management****(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 the 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 successfully completion of the programme, a candidate who wishes to exit is awarded the Basic Technician Certificate in Records, Archives and Information Studies of the National Institute of Transport.

7.6.4.2.2. Technician Certificate (NTA Level 5) in Records, Archives and Information Management**(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 the 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

7.6.4.2.3. 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) Modules Summary

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			60

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.

7.6.4.3. Academic Staff

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)

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)

Mr. Nuhu M Sephania Bachelor’s Degree of Public Administration in Records and Archives Management – (MU)

Ms. Anitha C. Bitakwate BSc. in Library and Information Management – (MU)

Librarian II

Ms. Neema Mhagama BA in Library and Information Studies – (TUDARCo), Dip. in Library Archives and documentation – (SLADS, Bagamoyo).

Mr. Epafra S. Nyambaro BSc. in Library and Information Management – (MU)

Mr. Victor J. Mbezi Master of Library and Information Management-(OUT), 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. Conjestta Masha	Dip. in Library Archives and documentation – (SLADS, Bagamoyo).
Ms. Rukia Majura	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).

Library Assistants

Mr. Nassoro Masoud	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).

7.7 DIRECTORATE OF RESEARCH, CONSULTANCY AND PUBLICATIONS

7.7.1. 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/ 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.	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.

7.7.2. 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.	PTE 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.

7.7.3. Postgraduate Diploma in Shipping and Port Management

(a) Programme Objective

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	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	Contact Hours
1.	PSP 401	Project/Research	120
Project/ /Research are as: (i) Port Operations Management (ii) Maritime Commercial and Shipping Law			
Total contact hours			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.

7.7.4. Postgraduate Diploma in Logistics and Procurement Management

(a) Programme Objective

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 10	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.

7.7.5. Postgraduate Diploma in Transport and Tourism Management

(a) Programme Objective

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) 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	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
	PTT 401	<p>Project/Research</p> <p>Project/ /Research areas:</p> <p>(i) Tourism Concepts and Impact</p> <p>(ii) Tourism Products</p> <p>(iii) Travel Agency Management</p>	

(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.

7.7.6. 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	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 contact hours			120

(c) Award

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

Transport.

7.7.7. 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) 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.	Code	Module	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 Project/ /Research areas: (i) Application of Railway Concession to	

(c) Award

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

7.7.8. Postgraduate Diploma in Transportation Engineering

(a) Programme Objective

The Postgraduate Diploma programme in Transportation Engineering aims at:

- (i) Developing the students' ability to independently assess, integrate and use knowledge in the developing effective professionals in road, port, airways, pipeline and railways transport.
- (ii) Developing students with knowledge-based approach to handle complex phenomena, problems and situations.
- (iii) Developing the students' opportunities for both Transportation Engineering 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.	PTE 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	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 contact hours			120

(c) Award

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

7.7.9. 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) Modules 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.

7.7.10 Master of Business Administration in Transport and Logistics in Collaboration with the 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:

(i) Knowledge and Understanding

- ☒ 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,
- ☒ 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,
- ☒ 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,
- ☒ Knowledge and understanding of theories, laws and practices in managing multicultural workforce and organizational behaviour dynamics,
- ☒ 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,
- ☒ Knowledge and understanding of the business research process, tools and frameworks for analysis and decision making including the use of ICT,
- ☒ 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.

(ii) Intellectual Skills

- ☒ Ability to prepare and interpret financial statements and extract relevant information for decision making purposes,
- ☒ Ability to take key financial management decisions, evaluate financial strategies, and manage the interactions between corporations and the financial markets and institutions,
- ☒ 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,
- ☒ Ability to apply theories and laws in managing work force and dynamics in organizations,
- ☒ Ability to analyze business environments, apply theories of enterprise development, and to practice and influence the adoption of good governance in achieving business success,
- ☒ 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,
- ☒ Ability to apply theories and laws in managing and handling phenomena, problems and situations related to transportation and logistics.

(iii) Professional/ Practical Skills

- Competence in designing, implementing and reviewing accounting and internal control systems, managing business risks and financial reporting relationships,
- 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,
- Competence in designing, implementing and evaluating various marketing plans and strategies, managing distribution systems, sales force, and international marketing operations,
- Competence in designing and implementing theoretically sound and law-compliant systems of managing workforce and dynamics in organizations,
- 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

Transport and Logistics

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

7.7.11. 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.

(i) Knowledge and Understanding

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

(ii) Intellectual Skills

- Ability to evaluate the performance and potential of individual employees,
- Ability to determine impact of remuneration on work employee performance,
- Ability to review the industrial relations of a country and recommend the necessary measures,
- Ability to identify situations of risk at the workplace and propose the necessary preventive measures.

(iii) Professional/Practical Skills

- Competence in carrying out remuneration survey and design a salary structure,
- Competence in equipping with techniques of promoting and maintaining industrial harmony,
- Competence in creating and implementing safety and health awareness programmes,
- 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	Modules 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

S/No.	Module Code	Modules Name	Credits
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			180

L-Lecture T-Tutorial

IS- Independent Studies

7.7.12. 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.

(a) **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.

(b) **Summary of Modules**

Modules are distributed into semesters 1, 2 and 3 as indicated below:

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 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
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 Title	Credits
Core			
21.	MEG 09421	Dissertation	50

(c) Scheme of Study

The scheme of study is indicated below:

SEMESTER I

S/No.	Module Code	Module Name	Credits
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- Lecturette; S- Seminar; P-Practical; AS- Assignment

7.7.13. Directorate of Research, Consultancy and Publications

7.7.13.1. Director of Research, Consultancy and Publications

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

7.7.13.2. Assistant Head

Mr. Salum Mihayo - MSc. in Procurement and Supply Chain Management - (MU), Advanced Diploma in Freight Clearing and Forwarding - (NIT), MCILT - (UK).

8.0 NATIONAL TRANSPORT RESOURCE CENTRE

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.

(a) 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.

(b) 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.

9.0 DIRECTORATE OF PLANNING AND ADMINISTRATION

The Directorate of Planning and Administration has three Departments dealing with Personnel and Administration, Finance and Students Welfare.

10.0 DEPARTMENT OF PERSONNEL AND ADMINISTRATION

The Personnel and Administration Department serves the Institute in the provision of the following services:

- (a) Staff Recruitment,
- (b) Staff Training,
- (c) Secretarial Services,
- (d) Security,
- (e) Staff Welfare,
- (f) Registry,
- (g) Equipment Maintenance.

11.0 DEPARTMENT OF FINANCE

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.

12.0 STUDENTS' SERVICES DIRECTORATE

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.

13.0 EXAMINATION REGULATIONS – 2018

PART I PRELIMINARIES

13.1 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].

13.2 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.

13.3 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.

13.4 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.

13.5 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 weight 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.

PART II

14.0 CONDITIONS FOR EXAMINATION

14.1. 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),

14.2. 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.

14.3. 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.

14.4. 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.

14.5. 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.

14.6 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.

14.7 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.

14.8 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.

14.9 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.

14.10 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.

14.11 CONDITIONS FOR EXAMINATION APPEAL

- 2.11. (1) Students wishing to appeal against examination results shall appeal to the Deputy Rector Academic, 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.

14.12 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.

PART III

15.0 ASSESSMENT, GRADING SYSTEM AND AWARD

15.1 EVALUATION SYSTEM

15.2 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.
- 1.1. (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.

15.3 CONDITIONS FOR PASSING MODULE(S)

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.

15.4 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.

15.5. 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:

$$\text{GPA} = \frac{\sum (\text{Grade Points} \times \text{Credits})}{\sum \text{Credits}}$$

15.6. 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.

15.7. 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.

15.8. 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.

15.9. LOSS OF CERTIFICATE

- 3.8. (1) In a situation where a candidate loses 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.

PART IV

16.0. ADMINISTRATION AND CONDUCT OF EXAMINATIONS

Administrative responsibilities in relation to examination issues shall be observed at all times.

16.1. 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.

16.2. 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.

16.3. 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.

16.4. 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.

16.5. 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.

16.6. 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.

16.7. CONDUCT OF CANDIDATES DURING EXAMINATION

- 1.7 (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.

16.8. 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.

16.9. 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.

16.10. 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.

16.11. 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.

16.12. 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.

16.13. 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.

16.14. 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.

PART V

17.0. EXAMINATION RESULTS APPROVAL PROCEDURES

17.1. 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.

17.2. 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.

17.3. 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.

17.4. 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.

17.5. 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.

17.6. 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.

17.7. 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.

17.8. 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.

17.9. 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.

17.10. 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.

17.11. 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.

17.12. 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.

17.13. 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,

17.14. COMPOSITION 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 employees
 - (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

17.15. RESPONSIBILITIES OF THE EXAMINATION BOARD

- 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.

17.16. 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.

17.17. 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,

17.18. 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.

PART VI

18.0. 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.

18.1. 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.

PART VII

19.0. MISCELLINIOUS PROVISIONS

19.1. REPEAL

- 7.1 The provisions of Examination Rules and Regulations of 2011 are hereby repealed and replaced by these Regulations.

19.2 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).

19.3. 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

19.4 POSTGRADUATE PROGRAMMES

(A) POSTGRADUATE DIPLOMA

TABLE 4: GRADING SYSTEM OF END OF EXAMINATION RESULTS AND RESEARCH REPORT

GRADE	GRADE POINT	RANGE OF MARKS	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:

- Candidate(s) who obtains a C grade or above will be considered to have passed the Research/Project;
- Candidate(s) shall be considered to have failed in a Research/Project when he/she obtains less than a C grade.

(B) MASTER DEGREE PROGRAMMES (NTA LEVEL 9)

(I) 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

19.5 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

19.6 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.

S/NO.	EXAMINATION IRREGULARITY	PENALTY
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.
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.

S/NO.	EXAMINATION IRREGULARITY	PENALTY
15	Candidate proven to have committed 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) semesters.
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.

19.7. FOURTH SCHEDULE

7.7.1. Criteria for selecting Best Students

- (a) **Selection for Institutional overall best students. The best student shall:**
- Have an overall GPA of not less than upper second class.
 - Not have record of being involved in any type of disciplinary action.
- (b) **Selection for Departmental overall Best Students. The best student shall:**
- Have an overall GPA of not less than upper second class.
 - Not have record of being involved in any type of disciplinary action.
- (c) **Selection for Departmental overall best Students in respective/Specific modules shall be as follows: -**
- Masters and Postgraduate not less than 75%
 - Bachelor's Degrees and Higher Diploma not less than 70%
 - Ordinary Diploma not less than 75%
 - Basic and Technician Certificate not less than 80%.

20.0. 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.

21.0 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.

22.0 AVAILABILITY OF ESSENTIAL INFRASTRUCTURE

22.1. 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

22.2. DESCRIPTIONS OF SOME OF THE PHYSICAL FACILITIES

22.2.1. 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).

22.2.2. 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.

22.2.3. 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.

22.2.4. 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.

22.2.5. 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.

22.2.6. 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.

22.2.7. 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.

23.0. 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:

23.1. 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.

23.2. 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.

23.3. 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.

23.4. 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.

23.4.1. 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.

23.4.2. 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.

23.4.3. 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.

23.4.4. Telephone

Institute's telephone may not be used for students' private calls.

23.4.5. 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.

23.4.6. Residence

Students are expected to live in the Institute's halls of residence or off campus as conditions shall determine.

23.4.7. 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).

23.4.8. 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.

23.4.9. 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).

23.4.10. 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.

23.4.11. 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.

23.4.12. 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.

23.5. STUDENTS' DISCIPLINARY COMMITTEE

23.5.1. 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.

23.5.2. 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.

23.5.3. 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.

23.5.4. 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.

23.5.5. 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.

23.5.6. 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.

23.5.7. 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.

23.5.8. Students' Disciplinary Appeals Committee

The Institute shall have the Disciplinary Appeals Committee.

23.5.9. 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.

23.5.10. 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.

23.5.11. 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.

23.5.12. Disclosure of Findings

The provisions of paragraph 8.6 shall apply *mutatis mutandis* to the disclosure of a finding of the Disciplinary Appeals Committee.

24.0. DEVELOPMENT PROJECTS

The Institute has got two ongoing projects all aiming at achieving the Institute's objectives. The Projects are:

- (a) Center for Professional Development (CPD)
- (b) Automobile Workshop services.

24.1. 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.

24.1.1. 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.

24.2. 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.

24.3 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

25.0 FEE STRUCTURE FOR VARIOUS PROGRAMMES ACADEMIC YEAR 2023/2024

25.1. 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.

25.1.1. Local Students

(a) **Direct Payment to the Institute in (TZS)**

S/No.	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	-

(b) Payments to Student (TZS)

S/ No.	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

25.1.2 Foreign Students**(a) Direct payments to the Institute (USD)**

S/No.	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)

S/No.	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.

25.2. 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.

25.2.1. Local Students

(a) Direct Payment to the Institute (TZS)

S/No.	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)

S/No.	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

25.2.2. Foreign Students**(a) Direct payments to the Institute (USD)**

S/No.	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)

S/No.	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

25.3. 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.

25.3.1. 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, 000.00	1,265, 000.00	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.	NACTVET 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.	Sports and Games	10,000.00	10,000.00	10,000.00	10,000.00
8.	Library Membership Fee	15,000.00	15,000.00	15,000.00	15,000.00
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.

25.3.2. 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

25.4. 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.

25.4.1 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.

25.4.2. 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 x52weeks)	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

25.5. 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.

25.5.1 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.

25.5.2 Foreign Students

(a) Direct payments to the Institute in (USD)

S/No.	Item	1st year	2nd Year	3 rd 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.	Resid ent 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

25.6. FEE STRUCTURE FOR BACHELOR'S DEGREE OF EDUCATION IN MATHEMATICS AND INFORMATION TECHNOLOGY (NTA LEVELS 7-8)

25.6.1 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.

25.6.2. 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

25.7. CERTIFICATE AND ORDINARY DIPLOMA (NTA LEVELS 4-6) PROGRAMES IN AIRCRAFT MAINTENANCE ENGINEERING**25.7.1. Local Students****(a) Direct Payment to the Institute (TZS)**

S/No.	Items	NTA Level 4	NTA Level 5	NTA Level 6
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.	Items	NTA Level 4	NTA Level 5	NTA Level 6
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

25.7.2. Foreign Students**(a) Direct Payment to the Institute (USD)**

S/No.	Items	NTA Level 4	NTA Level 5	NTA Level 6
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	Items	NTA Level 4	NTA Level 5	NTA Level 6
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

25.8. FEE STRUCTURE FOR HIGHER DIPLOMA AND BACHELOR'S DEGREE (NTA LEVELS 7-8) PROGRAMMES IN AIRCRAFT MAINTENANCE ENGINEERING

25.8.1. 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

25.7.2. 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

25.9. 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).

25.9.1. 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

25.9.2. 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	
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

(a) 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 be 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).

25.10. FEE STRUCTURE FOR MASTER OF SCIENCE IN LOGISTICS AND TRANSPORT MANAGEMENT

25.10.1. Direct Payments to the Institute

S/No.	Item	Tanzania Local Students in (TZS)		Non-Tanzanians Students (USD)	
		First Year Semester I + II (12 Months)	Second Year Semester III Dissertation (6 Months)	First Year Semester I + II (12 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	

25.10.2. 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

25.11 FEE STRUCTURE FOR MASTERS DEGREE NTA LEVEL 9 PROGRAMME IN MECHANICAL ENGINEERING WITH TRANSPORTATION MACHINERY

25.11.1 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	

25.11.2. Direct Cost Payable to Student

S/No.	Item	Residents		Non-Residents	
		First Year (Tshs)	6 Moths (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

25.12 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
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\$)

25.13 FEE STRUCTURE FOR AVIATION PROFESSIONAL COURSES

(a) Direct payments to the Institute

S/No.	Item	TSHS	USD
1.	Cabin Crew Tuition Fee	2,200,000.00	900.00
2.	Flight Operations Officer Course	2,850,000.00	1,200.00

(b) Direct payments to the students

S/No.	Item	TSHS	USD
1.	Uniform	280,000.00	110.00
2.	Meals	8,500 per day	4.00
3.	Accommodation	100,000 per semester	40.00
4.	Initial medical examination fee	350,000.00 annually	140.00
5.	Medical insurance	50,400.00 annually	20.00

Note: Fee should be paid in lump sum

26.0. 2023/2024 ACADEMIC CALENDAR FOR NTA LEVEL 4-8

STARTING DATE	ENDING DATE	ACADEMIC ACTIVITIES	NTA LEVEL PROGRAMME
23 rd October, 2023	05 th November, 2023	Reporting, Registration and Orientation Period	NTA 4-5 and 7-I
23 rd October, 2023	05 th November, 2023	Reporting, Registration	Continuing Students NTA 5,6 7-II,III,8
23 rd October, 2023	12 th February, 2024	1 st Semester Lectures	NTA 4-8
04 th December, 2023	10 th December, 2023	Conduct 1 st Test for 1 st Semester	NTA 4-8
25 th December, 2023	1 st January, 2024	Christmas and New Year Vacation	NTA 4-8
08 th January, 2024	14 th January, 2024	Conduct 2 nd Test for 1 st Semester	NTA 4-8
13 th February, 2024	26 th February, 2024	Conduct 1 st Semester Examinations	NTA 4-8
27 th February, 2024	23 rd March, 2024	Marking and posting into SIMS the 1 st Semester Examinations Results	NTA 4-8
27 th February, 2024	23 rd March, 2024	Vacation	NTA 4-8
25 th March, 2024	26 th March, 2024	Departmental Meeting to Deliberate on the 1 st semester Examination Results	NTA 4-8

STARTING DATE	ENDING DATE	ACADEMIC ACTIVITIES	NTA LEVEL PROGRAMME
28 th March, 2024	-	Faculty Examination Meeting to Deliberate on the 1 st Semester Examination Results	NTA 4-8
25 th March, 2024	7 th July, 2024	2 nd Semester Registration and Lectures	NTA 4-8
15 th May, 2024	-	Examination Appeals Committee Meeting	NTA 4-8
30 th May, 2024	-	Examination Board Meeting to Approve 1 st Semester Examination Results	NTA 4-8
06 th May, 2024	12 th May, 2024	Conduct 1 st Test for 2 nd Semester	NTA 4-8
17 th June, 2024	23 rd June, 2024	Conduct 2 nd Test for 2 nd Semester	NTA 4-8
08 th July, 2024	21 st July, 2024	Conduct 2 nd Semester Examinations	NTA 4-8
22 nd July, 2024	28 th August, 2024	Vacation	NTA 4-8
22 nd July, 2024	17 th August, 2024	Marking 2 nd Semester Examination and Posting into SIMS	NTA 4-8
20 th August, 2024	21 st August, 2024	Departmental Meeting to Deliberate on the 2 nd Semester Examination Results	NTA 4-8
23 rd August, 2024	-	Faculty Examination Meeting to Deliberate on the 2 nd Semester Results	NTA 4-8
29 th July, 2024	22 nd September, 2024	Field work/Teaching Practice/ Industrial Practical Training	NTA 4, 5,7
12 th September, 2024	-	Examination Appeals Committee Meeting	NTA 4-8
2 nd October, 2024	-	Examination Board Meeting to Approve 2 nd Semester Examination Results	NTA 4-8
30 th September, 2024	13 th October, 2024	Conduct of Special & Supplementary Examinations	NTA 4-8
30 th September, 2024	13 th October, 2024	Marking. of Special & Supplementary Examination and Posting Results into SIMS	NTA 4-8
16 th October, 2024	17 th October, 2024	Departmental Meeting to Deliberate on Special on the Special/ Supplementary Examination Results	NTA 4-8

26.2. 2023/2024 ACADEMIC CALENDAR FOR POSTGRADUATE PROGRAMMES

STARTING DATE	ENDING DATE	WEEK(S)	ACTIVITIES
23 th October, 2023	05 th November, 2023	2	Reporting, Registration and Orientation Period for Postgraduate students, 2023/2024
06 th November, 2023	23 th February, 2024	16	Quarter 1&II PGD Lectures 2023/2024 Semester 1 Masters Lectures 2023/2024
25 th December, 2023	1 st January, 2024	1	Christmas and New Year Vacation
5 th February, 2024	09 th February, 2024	1	First Proposal/Project Presentation for 2022/2023 Masters students (Second Year -MSc. LTM)
11 th March, 2024	22 nd March, 2024	2	Semester I Examinations for Masters 2023/2024
18 th March, 2024	22 nd March, 2024	1	Second Proposal/Project Presentation for Masters students 2022/2023
25 th March, 2024	5 th April, 2024	2	Marking and Moderation of First Semester Examinations for Masters students 2023/2024 Vacation-Masters and PGD Students
08 th April, 2024	12 th April, 2024	1	Posting Examination Results into SIMS for Postgraduate Lecturers
15 th April, 2024	19 th April, 2024	1	Departmental meeting to deliberate on First Semester Examination results for Masters 2023/2024 Faculty Committee Meeting and Publishing of Semester I Examination Results, 2023/2024
08 th April, 2024	26 th July, 2024	16	Quarter III PGD Lectures Semester II Lectures for Masters 2023/2024
29 th July, 2024	02 nd August, 2024		Submission of First Draft – Dissertations/Projects for Masters students 2022/2023
5 th August, 2024	9 th August, 2024	1	Special/Supplementary Semester One Examinations for Masters students 2023/2024
26 th August, 2024	06 th September, 2024	2	Semester II Examinations for Masters & PGD 2023/2024
09 th September, 2024	20 th September, 2024	2	Marking and Moderation of Second Semester Examinations for Masters students 2023/2024

STARTING DATE	ENDING DATE	WEEK(S)	ACTIVITIES
23 th September, 2024	27 th September, 2024	1	Posting Final Examination Results into SIMS for Postgraduate Lecturers 2023/2024
			Mini Presentation for Masters students 2022/2023
30 th September, 2024	04 th October, 2024	1	Departmental Meeting to deliberate on Second Semester Examination results for Masters and PGD Quarter I-III, 2023/2024
			Faculty Committee Meeting and Publishing of Semester II and PGD Quarter I-III Examination Results, 2023/2024
14 th October, 2024	25 th October, 2024	2	Special/Supplementary Examinations for Masters and PGD students 2023/2024
7 th October, 2024	12 th October, 2024	1	Viva Voce for Masters Students 2022/2023
21 th October, 2024	01 st November, 2024	2	Reporting, Registration and Orientation Period for Postgraduate students, 2023/2024

Source: Registrar's office.