



FOREST INDUSTRIES TRAINING INSTITUTE (FITI) – MOSHI

COURSES OFFERED

1.0 Basic Technician Certificate (NTA level 4) in Forest Industries Technology

1.1 The applicant must have at least four (4) passes (two passes must be of science subjects i.e. either Biology, Chemistry, Geography, Physics, Agricultural Science or Basic Mathematics) and any other two passes in non-religious subjects in Certificate of Secondary Education Examinations (CSEE) or from other countries as translated by NECTA. Graduates with National Vocational Award (NVA) level III in Forestry, Wood Processing or Carpentry and Joinery will be admitted. Also, candidates with Vocational Education in Forestry, Wood Processing, or Carpentry and Joinery from secondary schools will be admitted.

1.2 The modules in this programme are categorized as follows:

(a) Fundamental modules provide a range of skills, knowledge and principles that contribute to effective study of the main theme of a given training programme. Hence, fundamental modules provide a viable foundation for further studies and lifelong learning. In this curriculum fundamental modules are: Computer Application, Communication Skills, Applied Mathematics in Forestry, Life Skills, Ethics and Corruption in Forestry, Safety and Ergonomics in Forestry, First Aid in Forestry, and Soil Science.

(b) Core modules refer to modules associated with the core studies, which provide the development of the main theme of the programme. They broadly represent the main areas of activities in forestry. These modules are taught together with fundamental modules so as to ensure that students gain an appreciation of the nature and complexities of real life in forestry and forest industries. Core modules for Basic Technician Certificate 45 in Forest Industries Technology are: Tree Seed Management, Tree Nursery Management, Tree Planting and Tending, Forest protection, Forest Botany, and Field Practical Training

1.3 Distribution of Modules by Semester.

Semester I

S/n	Module code	Module title	Credits
1.	FIT 04101	Computer Application	9.0
2.	FIT 04102	Communication Skills	6.0
3.	FIT 04103	Life Skills	6.0
4.	FIT 04104	Soil Science	6.0
5.	FIT 04105	First Aid in forestry	6.0
6.	FIT 04106	Ethics and Corruption in Forestry	6.0
7.	FIT 04107	Safety and Ergonomics in Forestry	9.0
8.	FIT 04108	Tree Seed Management	12.0
Total credits			0.0

Semester II

S/n	Module code	Module title	Credits
1.	FIT 04201	Applied Mathematics in Forestry	9.0
2.	FIT 04202	Tree Nursery Management	9.0
3.	FIT 04203	Tree Planting and Tending	12.0
4.	FIT 04204	Forest Botany	6.0
5.	FIT 04205	Forest Protection	9.0
6.	FIT 04206	Field Practical Training	15.0
Total credits			0.0

2.0 Technician Certificate (NTA level 5) in Forest Industries Technology

2.1 Admissions to the program will be to a person who has successfully completed Basic Technician Certificate in Forest Industries Technology, Basic Technician Certificate in Forestry, Basic Technician Certificate in Agriculture, Basic Technician Certificate in Environmental Science/Studies, Basic Technician Certificate in Tourism/Wildlife Management/Conservation, National Vocational Award level III in Wood Processing, National Vocational Award level III in Forestry, National Vocational Award level III in Carpentry and Joinery or form six level who has passed in Science combination subjects with at least one principal and subsidiary pass.

2.2 The modules in this programme are categorized as follows:

(a) **Fundamental modules** provide a range of skills, knowledge and principles that contribute to effective study of the main theme of a given training programme. Hence, the fundamental modules provide a viable foundation for further studies and lifelong learning. In this curriculum there is no fundamental module(s).

(b) **Core modules** refer to modules associated with the core studies, which provide the development of the main theme of the programme. They broadly represent the main areas of activities in forestry and forest industries. These modules are taught together with fundamental modules so as to ensure that students gain an appreciation of the nature and complexities of real life in forestry and forest industries. Core modules for Technician Certificate in Forest Industries Technology are: Timber Harvesting, Sawmilling Operations, Saw Doctoring, Timber Drying, Timber Grading, Wood By-Products Value Addition, Timber Treatment, Engineered Wood Products, Forest Products Inspection and Field Practical Training.

In order to achieve an integration of these modules there will be considerable use of various teaching and learning methods including lecture, assignment, projects, discussions, case studies, independent work and field work.

2.3 Distribution of Modules by Semester.

Semester I

S/n	Module code	Module title	Credits
1.	FIT 05101	Timber Harvesting	15.0
2.	FIT 05102	Sawmilling Operations	15.0
3.	FIT 05103	Saw Doctoring	15.0
4.	FIT 05104	Timber Drying	9.0
5.	FIT 05105	Wood By-Product Value Addition	6.0
Total credits			0.0

Semester II

S/n	Module code	Module title	Credits
6.	FIT 05201	Timber Grading	9.0
7.	FIT 05202	Timber Treatment	12.0
8.	FIT 05203	Engineered Wood Products	15.0
9.	FIT 05204	Forest Products Inspection	9.0
10.	FIT 05205	Field Practical Training	15.0
Total credits			0.0

3.0 Ordinary Diploma (NTA level 6) in Forest Industries Technology

3.1 Admission to the programme will be open to holders of NTA level 5 in Forest Industries Technology, Mechanical Wood Industries, Wood Technology, Forestry, Agriculture, Environmental Science/Studies, Natural Resource Management, Tourism Management, Wildlife Conservation/Management.

3.2 The modules in this programme are categorized as follows:

(a) **Fundamental Modules** provide a range of skills, knowledge and principles that contribute to effective study of the main theme of a given training programme. Hence, the fundamental modules provide a viable foundation for further studies and lifelong learning. In this curriculum the fundamental modules are: Principles of Administration, Statistics, and Entrepreneurship.

(b) **Core Modules** these refer to modules associated with the core studies, which provide the development of the main theme of the programme. They broadly represent the main areas of activities in forestry and forest industries. These modules are taught together with fundamental modules to ensure that students gain an appreciation of the nature and complexities of real life in forestry and forest industries. The core modules for Ordinary diploma in Forest Industries Technology are: Wood Properties and Utilization, Climate Smart Forestry, Environmental Impact Assessment, Forest Economics, Forest Inventory, Geographical Information System (GIS) and Remote Sensing, Research Methods, Special Project, and Field Practical Training.

In order to achieve an integration of these modules there will be considerable use of various teaching and learning methods including lecture, assignment, projects, discussions, case studies, independent work and field work.

3.3 Distribution of Modules by Semester.

Semester I

S/n	Module code	Module title	Credits
1.	FIT 06101	Principles of Administration	9.0
2.	FIT 06102	Statistics	9.0
3.	FIT 06103	Research Methods	9.0
4.	FIT 06104	Entrepreneurship	9.0
5.	FIT 06105	Wood Properties and Utilization	12.0
6.	FIT 06106	Climate Smart Forestry	6.0
7.	FIT 06107	Environmental Impact Assessment	6.0
Total credits			0.0

Semester II

S/n	Module code	Module title	Credits
8.	FIT 06201	Non-Timber Forest Products	6.0
9.	FIT 06202	Forest Economics	9.0
10.	FIT 06203	Forest Inventory	12.0
11.	FIT 06204	Geographical Information System and Remote Sensing	9.0
12.	FIT 06205	Special Project (SP)	9.0
13.	FIT 06206	Field Practical Training	15.0
Total credits			0.0