



THE UNITED REPUBLIC OF TANZANIA

MINISTRY OF AGRICULTURE AND FOOD SECURITY

4.1 Objective:

To teach course participants the agronomic practices of vegetables and fruits growing so that they can be able to raise their own gardens and orchards.

4.2 Course contents:

- Nursery and seedbed establishment practices
- Seed planting In the nursery
- Nursery management
- Main field preparation
- Transplanting procedures
- Budding and grafting practices
- Topping and desuckerling in tomatoes
- Mulching practices
- Pruning in Citrus
- Weed Control
- Fertilizer Application
- Control methods of pests and diseases
- Fruits and vegetables preservation

5.0 SMALL SCALE ENTREPRENEUSHIP

5.1 Objectives:

To teach course participants the basic techniques on small scale enterprises so that they can be able to start and manage their own enterprises.

5.2 Course contents

- Project Identification
- Possible projects which can be undertaken
- Resources available
- Resources that can support the possible projects
- Situation environment
- Location of the project
- Population of the area
- Selection of the project/size
- Marketing
- Sales and purchases
- Facilitating functions
- Storage and Transport

Accountina

- Use of accounts Books
- CashBook
- Balance Sheet
- Final Accounts

5.3 TRAINING OF TRAINERS (ToT)

The course is designed for Extension officers, Mministrators, College instructors and related fields for personnel Involved in training.

The Training of Trainers course is tailored towards improving communication skills, problem solving and decision making, management functions and training of the gender trainers.

CONSULTANCY

Trainers at the Institute have been consulted on a number of agricultural related tasks and **have** been very **effective** especially regarding Agribusiness, **Animal Husbandry**, Poultry production, Agricultural and environment and Cashew and coconut production.

MATI - Mtwara



For More Information, Contact:

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MATI— Mtwara Profile

INTRODUCTION

The Ministry of Agriculture and food security Training Institute, MATI Mtwara, is one of the nine Agricultural Training Institutes in the country charged with the responsibility of imparting technical Agricultural knowledge to students, extension workers, farmers as well as conducting Training of Trainers (ToT) courses in related fields.

LOCATION

MATI Mtwara is located 13km south of Mtwara town and 6km Southwest of Mtwara airport at an altitude of 120m above sea level. The institute is located at Naliendele village which is along the Mtwara-Newala road.

Training activities

Basically the Institute is conducting long and short courses pertaining to Agriculture and Livestock production.

The long courses Include:

1. A two year certificate course in Crop Production (CCP).
2. certificate course for private candidates under modular system of Instruction.

Short Courses Include: -

- A. Farmers training courses/seminars
- B. Retraining of Extension workers
- C. Retraining of Retrenches
- D. Training of Trainers (ToT)

The modular system of instruction for the certificate course in agriculture for private candidates. The certificate course in Agriculture production being conducted at MATI Mtwara is geared towards producing competent and confident graduands capable of employing themselves in the fields of Agriculture production. The modular form of instruction is taught for a period of sixteen weeks.

Duration of the courses

MATI Mtwara has developed three modules. Each module is covered within sixteen weeks and there are two modules in a year with similar duration. Each module is independent and a full certificate is awarded after successful completion. However a student is at liberty to study all the modules depending on the need and interest of individual learner.

Training approach

A variety of teaching methods are used including lectures, group meetings discussions, exercised field visits, method and result demonstrations.

Entry qualification

Applicant should have a minimum of Form Four Secondary School Education with good passes in the following subjects: Biology, Physics, chemistry, Mathematics and a good command of English is an added advantage, since the medium of instruction is English.



Modular Courses

Course Design

The course design caters for the following training modules:

A. Perennial Crops — Cashew and Coconuts

Objective: At the end of the module the candidate will be able to establish and manage a medium size farm with one or two crops for optimum yield.

Course content:

Management practices involved in the commercial production of cashew and coconuts.

- Principles of Crop Production
- Soil and Water Conservation and Agroforestry
- Small scale Irrigation.

B. Annual crops— Simsim and Groundnuts

Objective: At the end of the module the candidate will be able to establish and manage a medium size farm with one or two crops for optimum yield.

Course content:

- Management practices involved in the commercial production of simsim and groundnuts
- Principles of crop production
- Economics and Farm Management
- Soil and water conservation and Agroforestry
- Small Scale Irrigation

C. Horticulture—Citrus Production

Objective:

At the end of the module the candidate will be able to establish - manage a medium size farm with one or more crops for optimum yield

Course content

- Management practices used to produce optimum yield of citrus
- Principles of crop production
- Economics and Farm Management
- Soil and water conservation and Agroforestry.
- Small Scale Irrigation

Tailor Made Courses

In order to recruit participants, such as Field Auxiliaries, progressive farm and retrenches who do not possess, entry qualifications as stated previous alternative modules can be developed for them. Several examples have been provided.

Specimen module for short courses

Target group:

- Farmers
- Private institutions

Duration of the courses: Two to four weeks for each course.

Entry requirements: Those who are able to read and write in Kiswahili or in English.

Types of course

Five modules for short courses have been formulated as follows: -

1. SOIL AND WATER CONSERVATION, AGROFORESTRY.

Objective:

The course is designed to equip the participants with the knowledge and skills related with the above topic.

course contents.

- Perimeter and Grid survey of the field
- Improvement of soil structure and fertility
- Fertilizer calculation and application
- Biological
- Importance of agroforestry
- Advantage and disadvantage of agroforestry intervention
- Classifications of agroforestry
- Management practices for trees suitable for Agroforestry
- Selection and raising trees suitable for incorporation with crops pastures

2. FIELD CROPS

2.1 Objective: To teach course participants the important technique to be applied when producing field crops in their farms for productivity

2.2 Course content:

- Principles of crop production
- Establishment of cashew and coconut fields
- Field layout
- Seed selection
- Nursery establishment
- Grafting techniques for cashew
- Cashew and Coconuts agronomical practices
- Control of fields pests and diseases
- Land preparation for cassava, sorghum and rice field
- Planting methods.
- Water management In Irrigated rice fields
- Special methods for control of noxious weeds in sorghum and rice fields
- Control of pests and diseases
- Harvesting
- Processing and storage methods
- Land preparation for groundnuts and Sesame
- Planting methods
- Agronomical practices —weeding and fertilizer application
- Control of pests and diseases
- Harvesting
- Processing and storage methods.

3. POULTRY AND DAIRY COW MANAGEMENT

3.1 Objectives:

To teach course participants basic practices on Poultry and dairy-cow husbandry so as to increase production.

3.2 Course Contents

- Construction of poultry house and modern dairy structures
- Management of a day old chick
- Dairy breeds selection
- In-calf heifer management
- Poultry feeds and feeds formulation
- Vaccination programme
- Calf rearing
- Management of layers
- Management of milking cow
- Milking techniques
- Identification and culling of layers
- Management and drying of milking cows
- Record keeping
- Prevention and treatment of diseases in cattle and poultry.

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