Training Approach

✓ Hands-on field demonstrations in nurseries and apiaries

✓ Practical sessions on briquette making, hive handling, and honey processing

✓ Interactive classroom lessons

✓ Group activities and case studies

Participants leave with **practical skills** to start agroforestry and beekeeping enterprises.

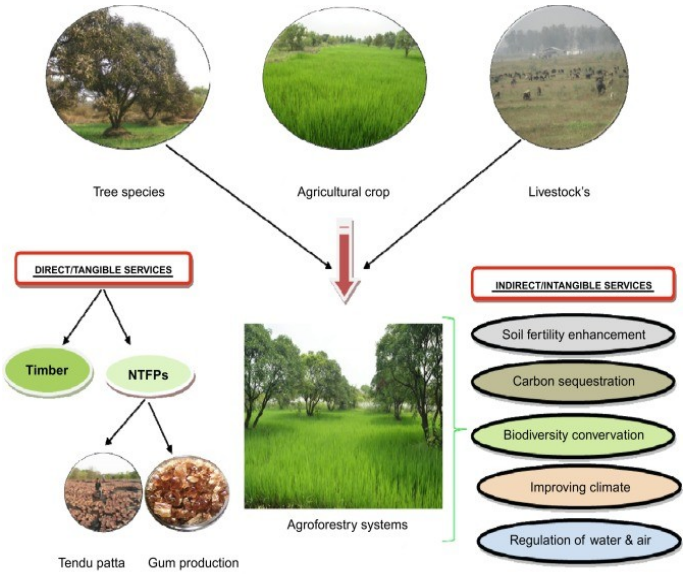
Why Choose This Course?

- Highly practical and field-oriented
- Delivered by experienced agroforestry and beekeeping instructors
- Certificate of Completion awarded
- Suitable for both beginners and practising farmers
- Promotes environmentally friendly income-generating skills

Accommodation & Meals

Training participants are provided with **comfortable accommodation and nutritious meals** under the **CICE** facility.

This ensures a safe, supportive, and enjoyable learning environment.



Contact details and location:
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Location:
Southern Province
Monze District
East of Monze town
5 Km along the Monze-Chivuna road.

ZAMBIA COLLEGE OF AGRICULTURE

MONZE

Sustainable Agriculture: Agroforestry & Beekeeping (Duration: 2 Weeks)

"Building Climate-Smart Skills Through Trees, Bees, and Sustainable Land Use"

- Training for sustainable development -

Course Overview

This two-week practical training program equips participants with hands-on skills in **agroforestry nursery establishment** and **modern beekeeping practices**.

The course promotes sustainable farming systems that enhance **soil fertility, biodiversity, pollination, income generation**, and **climate change resilience**.

Ideal for **farmers, youth agripreneurs, cooperatives, extension officers, environmental groups**, and community-based organizations.

▧ Modules Covered

A. Agroforestry Nursery Establishment (1 Week)

🌳 "Greening Farms for Future Sustainability"

1. Benefits of Agroforestry

Participants learn the economic and environmental advantages of integrating trees with crops and livestock, including soil conservation, microclimate improvement, and diversified income.

2. Seed Collection and Preparation

Techniques for selecting quality seed sources, seed extraction, treatment, and storage to improve germination and seedling vigor.

3. Site Selection

Factors considered when selecting a suitable nursery site—water access, drainage, shade, soil texture, and security.

4. Nursery Bed Preparation and Sowing

Practical training in soil preparation, nursery bed layout, potting, sowing methods, and spacing for different tree species.

5. Nursery Management

Covers watering schedules, shading, pest and disease control, weed management, hardening-off, and seedling transplanting.

6. Forest Tree Conservation Techniques (Biochar Briquette)

Participants learn sustainable charcoal alternatives and how to produce **biochar briquettes** to reduce deforestation and improve soil health.

B. Beekeeping (1 Week)

🐝 "Empowering Farmers Through Honey, Pollination, and Environmental Protection"

1. Apiary Establishment

Site selection, placement of hives, and environmental requirements for successful apiary establishment.

2. Beekeeping Equipment

Overview of essential beekeeping tools including smokers, protective clothing, hive tools, and honey extractors.

3. The Hives

Covers types of hives—Top-Bar, Langstroth, and Traditional hives—and their suitability for different environments.

4. Hive Stands

How to construct durable and predator-proof stands to support hives safely.

5. Baiting Techniques

Teaches how to attract bee colonies using wax, pheromones, and natural attractants.

6. Supplementary Feeding & Water (Bee Forage)

Participants learn the importance of forage, planting of bee-friendly trees, and sugar-syrup feeding during shortages.

7. Control of Pests and Diseases

Covers common pests (ants, wax moths, beetles) and diseases affecting colonies, plus preventive and control strategies.

8. Honey Harvesting and Processing

Includes safe harvesting techniques, honey extraction, filtering, storage, packaging, and meeting quality standards.