



A) Course: Agriculture & Entrepreneurship (AE)

- **Modules Coverage:** 80% Agriculture and 20% Entrepreneurship
- **Duration:** 6 months.
- **Level:** Advanced Certificate
- **Credits:** To be determined based on the content of each module.

B) Module Details

Module Code	Module Name	Study Hours	Credits
AE-101	Introduction to Agriculture	40	4
AE-102	Crop Production and Management	50	5
AE-103	Livestock Farming	60	6
AE-104	Agricultural Entrepreneurship	45	4.5
AE-105	Sustainable Farming Practices	55	5.5
AE-106	Agribusiness Management	50	5
AE-107	Agricultural Technology and Innovation	40	4
AE-108	Marketing Strategies for Agricultural Products	55	5.5
AE-109	Financial Management in Agriculture	30	3
AE-110	Practicum and Internship	-	12

C) Main Aims and Objectives

1. To provide a comprehensive understanding of agriculture.
2. To impart knowledge and skills in crop production and livestock farming.
3. To foster entrepreneurial thinking in the field of agriculture.
4. To promote sustainable farming practices.
5. To develop expertise in agribusiness management.
6. To explore and apply innovative agricultural technologies.
7. To teach effective marketing strategies for agricultural products.
8. To instill financial management skills specific to agriculture.
9. To offer practical experience through a practicum and internship.
10. To prepare individuals for entrepreneurship in the agricultural sector.

D) Detailed Outline of The Syllabus Per Module

1. AE-101: Introduction to Agriculture

- Definition and Scope of Agriculture
- Historical Development
- Types of Agriculture
- Importance of Agriculture in Society

2. AE-102: Crop Production and Management

- Soil Preparation and Cultivation
- Crop Selection and Rotation
- Irrigation Techniques
- Pest and Disease Management

3. AE-103: Livestock Farming

- Types of Livestock
- Animal Husbandry Practices
- Health and Nutrition of Livestock
- Breeding and Genetics in Livestock

4. AE-104: Agricultural Entrepreneurship

- Introduction to Agricultural Entrepreneurship
- Identifying Opportunities in Agriculture
- Business Planning for Agricultural Ventures
- Risk Management in Agricultural Entrepreneurship

5. AE-105: Sustainable Farming Practices

- Organic Farming
- Conservation Agriculture
- Water and Energy Efficiency in Farming
- Biodiversity and Ecosystem Services

6. AE-106: Agribusiness Management

- Supply Chain Management in Agriculture
- Market Research and Analysis
- Farm-to-Table Concepts
- Quality Control and Assurance

7. AE-107: Agricultural Technology and Innovation

- Precision Farming Technologies
- Smart Agriculture and IoT
- Drones and Robotics in Agriculture
- Blockchain Applications in Agribusiness

8. **AE-108: Marketing Strategies for Agricultural Products**
 - Branding and Positioning in Agriculture
 - Digital Marketing for Farmers
 - Export and Domestic Market Strategies
 - Consumer Trends in Agriculture

9. **AE-109: Financial Management in Agriculture**
 - Budgeting for Farms
 - Risk Management and Insurance
 - Accessing Agricultural Loans
 - Financial Record Keeping for Farmers

10. **AE-110: Practicum and Internship**
 - Hands-on Crop and Livestock Farming Experience
 - Agribusiness Management Practices
 - Application of Agricultural Technologies
 - Reflection and Evaluation of Internship Experience

E) Practicals

Practical activities will be incorporated into modules where applicable, focusing on hands-on experiences such as:

- Fieldwork in crop production and livestock farming.
- Application of sustainable farming practices.
- Management of agribusiness operations.
- Hands-on experience with agricultural technologies.

F) Duties During Internship

During the 8-week industrial internship, students will:

- Work on a farm or in an agricultural enterprise.
- Apply knowledge in crop and livestock management.
- Engage in agribusiness operations and management.
- Implement and assess sustainable farming practices.

G) Country Benefits

1. Increased agricultural productivity and food security.
2. Economic growth through the development of the agricultural sector.
3. Job creation in various aspects of agriculture and agribusiness.
4. Adoption of sustainable farming practices for environmental conservation.
5. Strengthened rural development and infrastructure.
6. Improved export potential for agricultural products.
7. Attraction of foreign investments in agriculture.
8. Diversification of the economy through agribusiness.
9. Development of skilled human resources in agriculture.
10. Enhanced national self-sufficiency in food production.

H) Students' Entrepreneurship Benefits

1. Ability to start and manage a successful farm or agribusiness.
2. Expertise in sustainable and innovative farming practices.
3. Entrepreneurial skills specific to the agricultural sector.
4. Knowledge of agribusiness management and marketing.
5. Understanding of financial management in agriculture.
6. Hands-on experience with modern agricultural technologies.
7. Networking opportunities with professionals in the agricultural industry.
8. Increased employability in various roles within the agriculture sector.
9. Potential for contributing to food security and sustainable agriculture.
10. Recognition as a certified agriculture entrepreneur.

I) Internationally Recommended Books and Materials

- "The Lean Farm: How to Minimize Waste, Increase Efficiency, and Maximize Value and Profits with Less Work" by Ben Hartman
- "The Market Gardener: A Successful Grower's Handbook for Small-scale Organic Farming" by Jean-Martin Fortier
- "The Third Plate: Field Notes on the Future of Food" by Dan Barber
- "The New Organic Grower, 3rd Edition: A Master's Manual of Tools and Techniques for the Home and Market Gardener" by Eliot Coleman
- "Agribusiness Management" by Freddie L. Barnard, Jay T. Akridge, Frank J. Dooley

J) Eligibility

This course is open to anyone with an interest in agriculture and entrepreneurship. No specific prior experience is required, making it accessible to individuals seeking to enhance their knowledge and skills in agriculture or pursue entrepreneurship in the agricultural sector.