Diploma in Agriculture Extension Services for Input Dealer (DAESI)

SYLLABUS
1. Agro Ecological Situations

Contents

1. Overview of Agricultural Production Systems
2. Agro-ecological situation and Agro-eco system approach
3. Weather parameters and their impact on Agricultural Production
4. Suitable cropping systems for the existing Agro-ecological situation
5. Relevance of Agro-meteorological information for crop production

2. Soil Health Management

1. Soil-Profile, Types, Characteristics, Properties (Physical, Chemical and Biological)
2. Importance of soil testing, method of soil sampling, interpretation and farm advisory, based on soil test results.
3. Problematic soils and their management
4. Macro-Micro Nutrient deficiencies and their symptoms
5. Integrated Nutrient Management
6. Liquid Fertilizers
7. Plant Growth Regulators

3. Rainfed Farming

1. Crop planning in Rainfed Areas
2. Importance of Water Management in Crop Production
3. Natural Resource Management for Dryland Agriculture

4. Climate Change and adaptation strategies for Rainfed agriculture

5. Integrated watershed management

4. Seed & Seed Production

1. Difference between seeds and grains
2. Importance of Quality Seeds in crop production
3. Seed treatment- Importance and procedure
4. Types of seeds
5. Seed storage and maintenance
6. Principles and practices of Seed Production
7. Seed Certification Process

5. Irrigation Techniques and their Management

1. Basic Principles in irrigation
2. Water use Efficiency System and Methods of Irrigation
3. Installation and Management of Micro irrigation Systems (Sprinkler & Drip Irrigation)
4. Budget requirement for Installation of Micro Irrigation System

6. Weed Management

1. Importance of Weed management in crops
2. Types of Weeds
3. Integrated Weed Management (Physical, Chemical, Biological method)

7. Farm Implements and Machinery
1. Farm Mechanisation Scope and Importance
2. Name and utility of various farm implements and machinery
3. Sources and approximate cost of Farm implements and machinery
4. Repairs and maintenance of farm implements and Machinery
5. Custom hiring Centers: Concept and Importance in the present context as a business model

8. Pest and disease Control in Agriculture
1. Importance of Pest and Disease Control in Agriculture
2. Difference between Harmful and Beneficial insects
3. Insect and Disease Symptoms
4. Difference between Nutrition deficiency and Disease Symptoms
5. Classification of Pesticides
6. New Generation Pesticides
7. Compatibility of Agro Chemical
8. Storage pests and their Management
9. Harmful effect of indiscriminate use of agricultural inputs
10. Integrated Pest Management
11. Residual Analysis
12. Precautionary Measures in procurement, handling and application of Chemicals and other agricultural inputs
13. First Aid
9. Crop Production Technology of major local crops

1. Paddy,

2. Cereals: Jowar, Bajra, Maize

3. Pulses: Red gram, Green gram, Black gram and Bengal gram

4. Oilseeds: Groundnut, Sesamum, Safflower, Sunflower, Soybean and Castor

5. Commercial Crops: Cotton, Chillies, Sugarcane, Turmeric etc.

Horticulture Crops: Mango, Sapota, Guava, Custard Apple, Amla, Grape

and Pomegranate

6. Vegetables: Tomato, Brinjal, Cole Crops, Cucurbits

7. Medicinal and Aromatic Plants,

8. Floriculture,

9. Landscaping and Lawn maintenance,