

# **MADHYA PRADESH BHOJ (OPEN) UNIVERSITY BHOPAL**

## **DIPLOMA IN ORGANIC FORMING (DOF)**

### **SYLLABUS**

#### **Paper 1: Concept of organic farming**

**MAX-100**

**TERMEND-70**

**ASSIANMENT-30**

Unit.1 Introduction: Farming, organic farming, concept and development of organic farming.

Unit.2 Principles of organic farming & Need for organic farming, Agencies and institutions related to organic agriculture

Unit.3 Types of organic farming, Biodynamic farming, Benefits of organic farming.

Unit.4 Conventional farming v/s organic farming

Unit.5 Scope and Present state of organic farming; M.P. national and international status

Unit 6 Requirements for organic farming, Farm components for an organic farm

#### **Paper 2: Organic plant nutrient management**

**MAX-100**

**TERMEND-70**

**ASSIANMENT-30**

Unit.1 Organic farming systems, Soil tillage, Choice of Varieties, crop rotation multiple and cropping systems, intercropping in relation to maintained of soil productivity by.

Unit.2 Propagation-seed, planting materials and seed treatments.

Unit.3 Water management, Green manuring, Composting- principles, stages, types and factors, Composting methods, Earth moon Vermicomposting

Unit.4 Bulky organic manures, Concentrated organic manures, Organic, Preparations, Organic amendments and sludges, biogas.

Unit.5 Bio-fertilizers-methods of application, advantages and disadvantages

Unit.6 Standards for organic inputs- fertilizers, Bio-fertilizers-types, Pheromones.

#### **Paper 3: Organic plant protection**

**MAX-100**

**TERMEND-70**

**ASSIANMENT-30**

Unit.1 Plant protection- cultural, Plant protection - mechanical .

Unit.2 Plant protection- botanical pesticides I, Plant protection- botanical pesticides II, Plant protection- botanical pesticides III.

Unit.3 Plant protection- biopesticide,

Unit.4 Plant protection- biocontrol agents, Plant protection- biocontrol agents .

Unit.5 Weed management .

Unit 6 National and international monny, Standards for organic inputs- plant protection .

#### **Paper 4: Organic crop production practices**

**MAX-100**  
**TERMEND-70**  
**ASSIANMENT-30**

- Unit.1 Organic crop production methods- rice.
- Unit.2 Organic crop production methods- coconut .
- Unit.3 Organic crop production methods- arecanut, cashew .
- Unit.4 Organic crop production methods- vegetables- okra, cowpea, amaranthus, solanaceous, cucurbits.
- Unit.5 Organic crop production methods- mango, banana, tuber crops, spices- pepper, spices- ginger, turmeric, spices-cardamom, medicinal and aromatics, ornamental crops.
- Unit.6 Livestock component in organic farming, Livestock Management in organic farming.

#### **Paper 5: Organic Certification**

**MAX-100**  
**TERMEND-70**  
**ASSIANMENT-30**

- Unit.1 Farm economy: Basic concept of economics- Demand, supply, Economic Viability of a farm.
- Unit.2 Basic production principles, Reducing expenses, ways to increase returns.
- Unit.3 Cost of production system. Benefit/ cost ratio. Marketing, Imports and exports.
- Unit.4 Policies and incentives of organic production, Farm inspection and certification: I
- Unit.5 Conversion to organic farming, Process, Income generation activities: Apiculture, Mushroom production, Terrace farming.
- Unit.6 Organic Farming and national Economy Socio Economic impacts.

#### **Paper 6: Entrepreneurship Development**

**MAX-100**  
**TERMEND-70**  
**ASSIANMENT-30**

- Unit.1 Entrepreneurship Concept, characteristics, approaches, need for entrepreneurship
- Unit.2 Traits of an entrepreneur –Risk taking, leadership, decision making, planning, organizing, coordinating and marketing.
- Unit.3 Agri-Enterprises- Stages of establishing enterprise, Project Identification, Step to be considered in setting up an enterprise, Feasibility Report, Product selection
- Unit.4 Project management and appraisal –Market, technical, social, financial analysis
- Unit.5 Market Management –Concept planning for marketing target marketing and competitive strategy.
- Unit.6 Types of entrepreneurs.