

4. SDCA-04: On-farm practices of agricultural Waste management

Total Hours: 30

Course Objectives:

1. To impart knowledge to students on various methods of agricultural waste management for eco-friendly energy and manure production.
2. To develop an understanding of some identified areas of organic farming
3. To develop skills at the village level in organic management practices with a special focus on soil health base crop management
4. To create job opportunities in the organic sector, particularly in the area of organic production

Course outcomes:

1. To acquaint with on-farm resource management under organic farming.
2. To understand soil health base crop management
3. To develop the skill of input production and quality control.
4. To be aware the traditional Biofertilizers, Biopesticides and Soil health promoters.
5. To learn nutrient management and plant protection including formulation techniques.
6. To develop the skills at the village level required for organic farming practices and related marketing economics.

Syllabus

Unit I

Introduction, Concept, Philosophies, Principles and Need of organic farming

Unit II

Soil health: the prime need in organic management. Organic farming an integrated approach. Traditional organic input preparation/formulation of Biofertilizer, biopesticides, plant health promoters like Panchgavya, Beejamrut etc

Unit III

Manure preparation and introduction to compost. Methods of composting – vermicomposting, Shivansh khad - Factors involved, Infrastructure required, maturity parameters, value addition and application methods

Unit IV

Crop management, Nutrient Management and Pest Management and Multilayer cropping system base farm planning.

Unit V

System of organic certification and inspection. Standards and guidelines of NPOP (National Programme for organic production). Branding of rural products, FSSAI, marketing and packaging of organic produce.

References:

1. Dahama, A.K. 2009. Organic farming for sustainable agriculture, Agrobros publishers.
2. Mukund Joshi. 2015. Sustainability to Organic Farming, Kalyani publication
3. Arun Kumar Sharma 2008. A Handbook of organic farming. Agrobios Publishers.

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