

## MG UNIVERSITY MOOC ON ORGANIC FARMING SYLLABUS

### **Jaiva Krishi: ArivumPadanavum**

#### Module 1 -History of organic agriculture

- 1.1 History of Agriculture
- 1.2 History of Organic Agriculture
- 1.3 Indian Green Revolution

#### Module 2- Basic principles of Organic farming

- 2.1 What is organic farming
- 2.2 Organic farming Vision
- 2.3 Ecology and organic farming
- 2.4 Modern agriculture and organic farming

#### Module 3- Organic Agricultural Systems

- 3.1 Biodynamic farming
- 3.2 LEISA
- 3.3 Perma culture
- 3.4 Regenerative agriculture
- 3.5 Sustainable development
- 3.6 Nature farming
- 3.7 Organic farming
- 3.8 Natural Farming or Do nothing Farming
- 3.9 Zero budget farming
- 3.10 SOFT agriculture and other systems.

#### Module 4 - Importance of soil

- 4.1 What is soil?
- 4.2 Soil as a living body
- 4.3 Soil classification
- 4.4 Soil and Organic farming
- 4.5 Soil conservation

#### Module 5- Plant stand establishment and nutrient management

- 5.1 Seeds and planting materials
- 5.2 Organic nutrient sources
- 5.3 Manures of animal origin
- 5.4 Manures of plant origin
- 5.5 Rock phosphate
- 5.6 Composts

5.7 Fermented bioslurries

5.8 Bio fertilizers

Module 6- Pest and disease management in Organic farming

6.1 Approaches to pest and disease management in organic farming

6.2. Use of Bait traps / Pheromone Traps

6.3 Natural insecticides and botanicals

6.4 Microbial insecticides

6.5 Biocontrol agents –Insect parasites and predators

6.6 Biofungicides

6.7 Appropriate Cultural practices

Module 7- Organic farming Project

Module 8- Organic farming in Kerala

8.1 Agricultural situation in Kerala

8.2 Organic agriculture in Kerala

8.3 Organic farming organizations

8.4 Organic farming systems

Module 9: Watershed and Water conservation

9.1. Organic farming outlook on soil moisture and water use.

9.2 Watershed - definition

9.3 Contour based cultivation practices

9.4 Land development works

9.5 Water reservoirs

9.6 Agricultural practices

Module 10 - Integrated farming

10.1 Integrated farming

10.2 Homestead farming

10.3 Terrace farming

10.4 Integrated farming in paddy fields

10.5 Integrated farming in Pokkali lands

10.6 Integrated farming in Kuttanad

10.7 Multi level Integrated farming model

10.8 Other Integrated farming system models

Module 11 - Organic Certification

11.1 What is Organic Certification ?

11.2. Organic certification in different countries

11.3. Accredited Indian Agencies

11.4. National Programme for Organic Production

11.5. PGS certification

Module 12-Marketing organic produce

12.1 Growing organic market

12.2 International organic market and India's contribution

12.3 Domestic organic market of India

12.4 Challenges of organic market

12.5 Opportunities of organic marketing

### മൊഡ്യൂൾ 13 - ജൈവജീവിതം

- ജൈവജീവിതം Book
  
- 13. ജൈവജീവിതം
  - 13.1 ജൈവജീവിതം സിദ്ധാന്തവും പ്രയോഗവും
  - 13.2 ജൈവകൃഷി
  - 13.3 ജൈവഭക്ഷണം
  - 13.4 ജൈവതരോഗ്യരക്ഷ
  - 13.5 ജൈവവസ്ത്രധാരണം
  - 13.6 ജൈവപാർപ്പിടം
  - 13.7 ജൈവസൗന്ദര്യരക്ഷ
  - 13.8 ലഹരിമുക്തജീവിതം

Module 14: Project- Organic Fertilizer preparation

Final Exam