



Sree Narayana Mangalam College Maliankara

(Affiliated to Mahatma Gandhi University, Kottayam)

CERTIFICATE COURSE SYLLABUS

FUNDAMENTALS OF ORGANIC FARMING

Sree Narayana Mangalam College
Maliankara P.O, (Via) Moothakunnam,
Kerala, Pin – 683516
snmcqac@gmail.com
0484-2483600
www.snmcollege.in

Objectives of the Course:

- To provide basic information about organic farming.
- To gain practical knowledge about organic manure making.
- To familiarize the use of insecticides and pesticides.

Course Overview:

- Development of overall knowledge about organic farming.
- Development of practical skills in organic manure making.
- To understand new techniques of harvesting.

Duration of the course: 32 Hours (16 Hours Theory + 16 Hours Practical)

Module 1

Basics principles of organic farming

- What is organic farming (Theory: 1 hour)
- Modern agriculture and organic farming (Theory: 1 hour)
- Ecology and organic farming (Theory: 1 hour)
- Biodynamic farming (Theory: 1 hour)
- Zero budget farming (Theory: 1 hour)

Module 2

Importance of soil

- What is soil (Theory: 1 hour)
- **Organic farming Project Work I** (Practical: 4 hours)
- Soil conservation (Theory: 1 hour)
- Soil classification (Theory: 1 hour)
- **Organic Farming Project Work I** (Practical: 4 hours)

Module 3

Plant stand establishment and nutrient management

- Manures of animal and plant origin (Theory: 1 hour)
- Fermented bioslurries (Theory: 1 hour)
- **Organic manure making Project II** (Practical: 4 hours)
- Biofertilizers (Theory: 1 hour)
- Composts (Theory: 1 hour)
- **Organic maure making Project II** (Practical: 4 hours)

Module 4

Pest and disease management in Organic farming

- Approaches to pest and disease management (Theory: 1 hour)
- Natural insecticides and botanicals (Theory: 1 hour)
- Microbial insecticides (Theory: 1 hour)
- Biofungicides (Theory: 1 hour)

Suggested Readings

1. https://agriculture.ec.europa.eu/farming/organic-farming/organic-production-and-products/organics-references_en
2. <https://academic.oup.com/fqs/article/4/2/69/5861338>
3. https://www.researchgate.net/publication/272621440_Organic_Farming_The_Return_to_Nature
4. https://rvskvv.net/images/Organic-Manures_20.04.2020.pdf
5. https://bu.edu.eg/portal/uploads/Agriculture/Soils%20and%20water/1179/crs-15144/Files/Organic_Manure.pdfwww.eeca.govt.nz