

CERTIFICATE/DIPLOMA IN ORGANIC FARMING

Objectives:

- 1) To create awareness about organic farming.
- 2) To familiarize with organic crop management practices, organic standards and certification

Duration of the Course:

Certificate:6 months

Diploma: 1 Year

Eligibility:

Any student enrolled in the degree program of the college.

Subjects covered under Certificate Course are Sr No. 1,2 and 3	
Name of Paper	Credits
GC-OF-01T Organic Farming -I	06
GC-OF-02T Organic Farming-II	06
GC-OF-03P Practical and Project-I	06
Subjects covered under Diploma Course are Sr No. 1,2,3,4,5 and 6	
GC-OF-04T Organic Farming-I	06
GC-OF-05T Organic Farming-II	06
GC-OF-06P Practical and Project-II	06

Organic Farming I

Total Marks: 100
External Marks: 70
Internal Marks: 30
Credits: 6
Pass Percentage: 40%

Section-A

Unit I -Agronomy - Organic farming- concept, characteristics, significance, organic ecosystem, scope of organic farming in India

- Principles and types of organic farming

Unit II - Soil Science

- Organic farming for sustainable agriculture; Manures- compost, methods of composting
- Green manuring, **vermicompost** and biofertilizer

Section-B

Unit III - Fundamental of organic farm management

- Land management in organic farming
- Water management in organic farming

Unit IV - Post harvest management

- Processing, labeling of organic produce
- Storage and transport of organic produce

Organic Farming II

Total Marks: 100
External Marks: 70
Internal Marks: 30
Credits: 6
Pass Percentage: 40%

Section-A

Unit I - Agronomy

- Choice of crops & varieties in organic farming
- Initiative by Govt/NGOs/Other organizations for promotion of organic farming

Unit II - Soil Science

- Harmful effect of non-judicious chemical fertilization
- Organic farming practices for improving soil health

Section-B

Unit III - Fundamental of organic farm management

- Organic insect disease management
- Organic pest disease management

Unit IV - Post harvest management

- Organic Quality control standards
- Certification- types, process & procedure and agencies

Practical and Project I

Total Marks: 100
External Marks: 70
Internal Marks: 30
Credits: 6
Pass Percentage: 40%

Practical:

- 1) Field visit of organic farming
Max. Marks: 50
- 2) Seed and seed treatment
Theory: 40
- 3) Preparation of Farm Yard Manure (FYM) & compost
Int. Ass.: 10
- 4) Water management in organic agricultural
Periods: 4 hrs. / week

Scheme of practical examination

Internal practical examination	40 marks
I) Preparation	20 marks
II) Identification	10 marks
III) Submission of practical record book	5 marks
IV) Viva – Voce	5 marks

References:

- 1) Palaniappan S.P and Annadurai K (2010) Organic Farming Theory and Practice Ist Edition Scientific Publishers, Rajasthan
- 2) Bansal M (2018) Basics of Organic Farming. CBS Publishers and Distributors Pvt Ltd, New Delhi
- 3) Sheaffer C and Moncada K(2012) Introduction to Agronomy : Food , Crops and Environment IInd Edition , Cengage Learning Publishers , Boston , U.S
- 4) Das K.D(2015) Introductory Soil Science 4th Edition , Kalyani Publishers , New Delhi
- 5) Mahender G P , Singh H, Kumar V. and Singh N (2018) Botanicals in Insect Pest Management , Anu Books , New Delhi

Organic Farming III

Total Marks: 100
External Marks: 70
Internal Marks: 30
Credits: 6
Pass Percentage: 40%

Section-A

Unit I - Agronomy

- Operational structure of NPOP (National Programme for Organic Production)
- Concept of dryland agronomy

Unit II - Soil Science

- Quality parameters of organic manures and specifications
- Soil fertility in organic farming systems

Section-B

Unit III - Fundamental of organic farm management

- Preventive and cultural methods for insects and pest control
- Identification of different fungal and bacterial biocontrol agents

Unit IV - Post harvest management

- Quality aspect and grading
- Packaging and handling

Organic Farming IV

Total Marks: 100
External Marks: 70
Internal Marks: 30
Credits: 6
Pass Percentage: 40%

Section-A

Unit I - Agronomy

- Organic nutrient resources & their fortification, restriction to nutrient use in organic farming
- Organic production methods for cereals, vegetables and fruit crops

Unit II - Soil Science

- Manure preparation methodology
- Soil improvement

Section-B

Unit III - Fundamental of organic farm management

- Indigenous technical knowledge for insects-pest, disease
- Weed and nutrient management in organic farming

Unit IV - Post harvest management

- Economic considerations and viability of organic products
- Export of organic product and marketing

Practical and Project II

Total Marks: 100
External Marks: 70
Internal Marks: 30
Credits: 6
Pass Percentage: 40%

Practical :

- 1) Crop planning & management in organic agriculture
Max. Marks : 50
- 2) Identification of different fungal and bacterial biocontrol agents
Theory : 40
- 3) Application of manures and composts
Int. Ass. : 10
- 4) Preparation of plant protection inputs **Periods**
: 4 hrs / week
- 5) Application of plant protection inputs

Scheme of practical examination

	Internal practical examination	40
marks	Preparation	20
	marks	
I)	II) Identification	10
	marks	
	III) Submission of practical record book	5
	marks	
	IV) Viva – Voce	5
	marks	

References :

- 1) Reddy S R(2019) Fundamentals of Agronomy Kalyani Publications, Uttar Pradesh
- 2) Tolanur S (2018) Fundamentals of Soil Science IInd Edition , CBS Publishers , New Delhi
- 3) Reddy S R (2017) Principles of Organic Farming Kalyani Publishers , New Delhi
- 4) Dongarjal R.P. and Zade S.B(2019) Insect Ecology and Integrated Pest Management Akinik Publications , New Delhi