



**YBN UNIVERSITY**

Established by the Act of Government of Jharkhand Act 15, 2017  
Gazette Notification No. 505, Dated 17th July 2017  
As per Section 2(f) of UGC Act. 1956

## **SCHOOL OF AGRICULTURAL SCIENCE**

### **COURSE STRUCTURE/SCHEME**

**FOR**

**SIX MONTH CERTIFICATE  
COURSE**

*IN*

**ORGANIC FARMING  
(COF)**

Applicable w.e.f. Academic Session

[2023-2024 till revised]

# **CERTIFICATE COURSE IN ORGANIC** **FARMING (COF)**

## **Objectives:**

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

## **Duration of the Course:**

Minimum duration: 6 months

Maximum duration: 2 years

Course Fee: Rs. 10,000

Minimum Age: No bar

Maximum Age: No bar

## **Eligibility:**

10+2 Senior secondary pass-outs

**Syllabus for Certificate Course (Six Months)**  
**in Organic Farming (COF)**  
**Course Curriculum**

COURSE CODE	COURSE TITLE	C R E D I T S	DISTRIBUTION OF CREDITS				EXAM.		END SEM	TOTAL MARKS	
			L	T	P	C	MI D-I	IA			
1Y1OGF101	Overview of organic farming	5	3	2	0	5	20	20	60	100	
1Y1OGF 102	Farm management	5	3	2	0	5	20	20	60	100	
1Y1OGF 103	Inspection and Certification	5	4	1	0	5	20	20	60	100	
1Y1OGF 104	Skill Enhancement	5	0	1	4	5	20	20	60	100	
1Y1OGF105	Professional Communication	5	0	1	4	5	20	20	60	100	
1Y1OGF106	Internship	10	0	0	10	10	20	20	60	100	
<b>Total Credits</b>			<b>35</b>								

**Learning Outcomes:** The course will impart knowledge and proficiency in organic production practices, certification process and marketing of organically raised agricultural produce as well to promote self-employment and income generation.

## **SYLLABUS**

**Paper Code: 1Y1OGF101**

**Title: Overview of Organic Farming**

### **Unit-I The science of modern farming**

Definition of organic farming  
Development of organic farming  
Concept of organic farming  
Holistic concept  
Living Soil Concept  
Healthy Plant Concept

### **Unit-II Principles of organic farming**

The principle of Health  
The principle of Ecology  
The principle of Fairness  
The principle of Care

### **Unit –III Organic farming approaches**

Traditional farming approaches  
Sustainable farming approaches  
Biodynamic farming approaches  
Natural farming approaches  
Permaculture approaches  
LEISA farming

### **Unit-IV Benefits of organic farming**

Economic benefits  
Ecological benefits  
Social benefits

### **Unit- V Organic farming initiatives in India**

Major organic products from India  
Constraints for organic farming  
Potential Customers for organic products in the Domestic market

**Learning outcomes:** This paper aims to impart knowledge to understand different organic farming approaches and the importance of organic farming. Student shall be able to examine the market potential.

**Mode of Teaching:** Lecture/ Practical/ Field Visit//Workshop

**Suggested readings:**

1. Alvares, C., 1996. The organic farming source book. The other India press, Mapusa, Goa.
2. Gupta, M., 2004. Organic Agriculture development in India. ABD Publishers, Jaipur, India

**Paper Code: 1Y1OGF102****Title: Farm Management****Unit-I Farm Designing:**

Characteristics and Components of an organic Farm  
Planning and layout of the farm  
Farm components in different agro ecosystems  
Field crops in organic farms  
Buffer zone

**Unit-II Farm structures**

Benefits of trees in organic Farm  
Farm biodiversity  
Compost yard  
Cattle Shed

**Unit-III Land preparation for organic farming**

Implements used for land preparation  
Factors influencing Land preparation  
Summer ploughing  
Wetland preparation  
Types of tillage  
Land preparation for cereals and Millets  
Land preparation for pulses and oilseeds

**Unit-IV Cultural Practices**

Pre sowing irrigation  
Crop rotation, intercropping, mixed cropping  
Use of tolerant & resistant varieties  
Manipulations in sowing dates  
Irrigation/Flooding  
Destruction of volunteer plants

**Unit-V Mechanical practices**

Shaking the branches  
Handpicking and Killing, Traps, Spike Thrust method, Trenching

**Learning outcomes:** This paper aims to impart knowledge to understand different organic farming approaches and to explain the purpose of organic farm designing.

**Mode of Teaching:** Lecture/ Practical/ Field Visit//Workshop

**Suggested readings:**

1. APEDA, 2001, Guidelines for production of organic rice in India, Agricultural and processed food products export development authority, New Delhi