

# University of Kota

Session 2025-26

## Skill Enhancement Course (S.E.C.): Organic Farming

Course code :

Maximum Marks :50

Credit:2

### COURSE OBJECTIVES:

- To create awareness about organic farming.
- To equip learners with the knowledge and skills necessary to practice the production of healthy organic food and sustainable agriculture .
- To introduce the concept of organic ecosystem and learn about biological magnification & its significance in the present day scenario.
- To let students know the importance of doing organic farming as the responsibility of every human being to ensure food safety, nutritional security and food security for the present as well as future generation, to achieve sustainable development for every nation.

### Learning Outcomes

By the end of this course, students will be able to manage a small-scale organic farm, prepare natural inputs, and understand the formal certification process to market their products

**There will be a single multiple choice based (OMR based) question paper of one and half hours .**

## UNITS CONTENTS

### Unit 1

**Introduction of Organic Farming** :Principles, concepts, and significance of organic farming .Comparative study: Organic vs. Conventional farming., Organic ecosystem: Nutrient cycling, decomposition, and biodiversity.

### Unit 2

**Soil Health and Nutrient Management**:Soil structure, pH, humus, and role in fertility. Organic manuring: Compost, vermicompost, green manure, and farmyard manure. Bio-fertilizers and microbial inoculants.

### Unit 3:

**Organic Crop Production Management**: Selection of seed, planting materials, and seed treatments. Crop rotation, intercropping, and cropping patterns. Water conservation and management techniques.

### Unit 4:

**Plant Protection and Weed Management** :Integrated pest and disease management (IPM). Botanical pesticides and biological control agents.

## **Unit 5:**

**Certification, Marketing, and Economics:** Organic standards (NPOP), certification, and inspection procedures. Post-harvest management and quality control. Economics of organic farming: Marketing and certification costs.

### **SUGGESTED READINGS:**

- 1. Sharma, Arun K. 2002. A Handbook of Organic farming. Agrobios, India.**
- 2. Sathe, T.V. 2004, Vermiculture and Organic Farming. Daya Publishers.**
- 3. Alvares, C. 1996. The Organic Farming Source Book. The Other India Press, Mapusa, Goa.**
- 4. Gupta, M., 2004. Organic Agriculture Development in India. ABD publishers, Jaipur, India.**
- 5. S.P. Palaniappan, K. Annadurai, 1999. Organic Farming- Theory and Practice, Scientific Publishers, Jodhpur, India.**
- 6. Dr. Pratiksha Raghuvanoki. Handbook of Organic Farming.**
- 7. Organic Farming: The Ecological System- Agronomy Monograph 54, ASA, USA.**
- 8. Subha Rao, N.S. 200, Soil Microbiology, Oxford & IBH Publishers, New Delhi**
- 9. Dongarjal R. P. and Zade S.B. 2019. Insect Ecology and Integrated Pest Management, Akinik Publications, New Delhi.**
- 10. Dushyent Gehlot. 2005. Organic Farming- standards, accreditation, certification and inspection. Agribios, India.**

