

Organic Farming

Course Objectives:

- To understand about organic farming and its significance in modern day of farming
- To learn the characteristics features of organic farming and its difference from traditional method of farming.
- To learn about government promotions and beneficial role of organic farming towards farmers.

Course Outcomes

After the completion of the course the students are expected to have

- Knowledge of organic farming and its need and prospect in modern day farming.
- Learn about the organic farming and its relevance with the sustainability, biodiversity and ecological balance.
- To get idea on the government policies on organic farming

Unit I:

LO: The students will learn about the concept of organic farming and its relevance with modern day farming.

- Definition need and scope of organic farming, Relevance to modern agriculture. Difference between organic and conventional farming practices.
- Modern farming practices – Permaculture, biodynamic farming.
- Organic farming – perspective in Odisha and India. Global status of organic farming. Future prospects of organic farming - advantages and barriers.

Unit II:

LO: Learners will learn about government initiative and promotions. They will learn about organic fertilizers used in organic farming.

- Governmental initiative on promotion of organic farming in India - policies and success stories. Marketing and export potential of organic products – impact on national economy Organic nutrient sources and their fortification, Nutrient management in organic farming
- Green Organic manures – methods of preparation of green manures, impact of green. manures towards organic farming.
- Biofertilisers – types, methods of application – benefits and limitations

✓ *Dabbert, S., Haring, A. M., & Zanoli, R. (2004). Organic farming: policies and prospects. Zed*

Unit III:

LO: The students will learn about the methods of controlling pest and diseases during organic farming.

Also, they will learn about bioformulations for better organic farming

- Disease management, weed management and insect management under organic farming. Use of biological methods for pest and disease management
- Use of plant-based formulations for disease management – Use of neem extracts, seed kernels and other natural non-chemical-based formulation for management of diseases and pest for organic farming

Text Books:

Maliwal, P. L. (2020). Principles of Organic Farming: Textbook. Scientific Publishers.

Reference Books:

- ✓ *Somasundaram, E., Nandhini, D. U., & Meyyappan, M. (2021). Principles of organic farming. CRC Press.*
- ✓ *Das, S., Chatterjee, A., & Pal, T. K. (2020). Organic farming in India: a vision towards a healthy nation. Food Quality and Safety, 4(2), 69-76*
- ✓ *books.*