

ABOUT THE COURSE

COURSE NAME:	Organic Food Production Technique
TOTAL DURATION:	45 Hrs
MODE OF DELIVERY	PHYSICAL CLASSROOM TRAINING AT RESPECTIVE COLLEGES
TRAINER TO STUDENT RATIO:	1:50
TOTAL MARKS:	75

Organic Food Production Techniques

TABLE 1	
OVERALL COURSE OBJECTIVE:	To provide comprehensive knowledge and practical skills in organic food production techniques, covering sustainable farming practices, crop cultivation, pest management, and soil health.
LEARNING OUTCOME:	By the end of the course, participants will be able to: <ul style="list-style-type: none"> ● Interpret principles and practices of organic farming. ● Apply sustainable techniques for crop cultivation. ● Implement effective pest and disease management strategies in organic farming. ● Assess and improve soil health using organic methods. ● Develop and plan organic farming systems for different crops.

TABLE 2: MODULE WISE COURSE CONTENT AND OUTCOME				
SL .N O	MODULE NAME	MODULE CONTENT	MODULE LEARNING OUTCOME	DURATION (HRS)
1	Introduction to Organic Farming	Principles of organic farming	Understanding the foundational principles and philosophies of organic farming	8

		Importance of sustainable agriculture	Recognizing the significance of sustainable practices in agriculture	
2	Sustainable Crop Cultivation	Crop selection and rotation	Implementing crop selection and rotation techniques for sustainable agriculture	8
		Soil enrichment methods	Applying methods to enrich soil health for better crop cultivation	
3	Pest and Disease Management	Organic pest control methods	Implementing effective organic pest control measures to safeguard crops	10
		Disease prevention strategies	Developing strategies to prevent diseases in crops using organic methods	
4	Soil Health Improvement	Soil testing and analysis	Understanding soil composition and methods to analyze and improve soil health	8
		Composting and natural fertilizers	Applying composting techniques and natural fertilizers for sustainable soil enrichment	
5	Planning Organic Farming Systems	Designing organic farming systems	Developing and planning effective organic farming systems for different types of crops	8

TABLE 3: OVERALL COURSE LEARNING OUTCOME ASSESSMENT CRITERIA AND USECASES

LEARNING OUTCOME	ASSESSMENT CRITERIA	USECASES
Understanding principles and practices of organic farming	Written assessments	Tests or quizzes evaluating understanding of organic farming principles and practices

	Case studies	Analyzing case studies demonstrating successful implementation of organic farming techniques
Application of sustainable techniques for crop cultivation	Practical demonstrations	Demonstrating various sustainable techniques in crop cultivation
	Crop yield and quality analysis	Analyzing crop yield and quality based on applied sustainable techniques
Implementing effective pest and disease management strategies	Pest and disease control evaluations	Assessing the effectiveness of implemented strategies in controlling pests and diseases in organic farming
	Case-based problem-solving exercises	Solving scenarios related to pest and disease management in an organic farming context
Assessing and improving soil health using organic methods	Soil health assessment	Conducting soil health assessments and proposing methods for improvement
	Soil enrichment practicals	Implementing practices to enrich soil health and monitoring the outcomes
Developing and planning organic farming systems for crops	Farming system design assessments	Designing and evaluating different organic farming systems suitable for various crops
	Project presentations	Presenting planned organic farming systems for specific crops and their feasibility

TABLE 4: LIST OF FINAL PROJECTS

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SL.N O	FINAL PROJECT
1	Creation of an organic farming handbook covering principles, techniques, and best practices
2	Case study analysis on successful implementation of organic farming methods

3	Development of a comprehensive sustainable crop rotation plan for different seasons
4	Research project on organic pest control methods and their effectiveness
5	Soil health assessment and improvement plan for a specific agricultural plot
6	Presentation on the importance of biodiversity in organic farming practices
7	Practical demonstration of organic pest management techniques on different crops
8	Proposal for an organic disease prevention strategy for specific crop varieties
9	Design and implementation of a composting system for sustainable soil enrichment
10	Case-based assignments on the impact of organic farming on crop yield and quality
11	Simulation of different organic farming systems and their effects on soil health
12	Research paper on the correlation between organic farming and ecological sustainability
13	Presentation on modern technological advancements in organic farming practices
14	Business plan development for transitioning a conventional farm to organic practices
15	Case studies showcasing challenges and solutions in implementing organic farming techniques
16	Design and execution of a sustainable pest control strategy for a specific crop
17	Financial plan outlining investments for transitioning to organic farming practices
18	Project evaluating the feasibility of implementing new organic farming techniques
19	Creation of a comprehensive report on advancements and challenges in organic farming
20	Practical application of different organic farming systems in varying climatic conditions
18	Project evaluating the feasibility of implementing new baking techniques
19	Creation of a comprehensive report on advancements and challenges in industrial baking
20	Practical application of industrial baking methods in different bakery scenarios

TABLE 5: COURSE ASSESSMENT RUBRICS (TOTAL MARKS: 75)

ASSESSMENT CRITERIA	DESCRIBE THE CRITERIA OF THE BELOW CATEGORY PERFORMANCE			TOTAL MARKS
	FAIR	GOOD	EXCELLENT	
Understanding of Organic Farming Principles	Basic understanding of organic farming principles	Sound understanding with moderate application	Comprehensive understanding with adept application	20
Application of Sustainable Farming Techniques	Basic application with limited proficiency	Competent application with acceptable proficiency	Advanced application with high proficiency	15
Pest and Disease Management in Organic Farming	Limited effectiveness in controlling pests and diseases	Competent control with reasonable effectiveness	Advanced and effective pest and disease management	15
Soil Health Assessment and Improvement	Basic assessment with limited improvement methods	Competent assessment with reasonable improvement methods	Advanced assessment with highly effective improvement methods	15
Planning and Development of Organic Farming Systems	Basic planning with limited considerations	Competent planning with reasonable considerations	Advanced planning with comprehensive considerations	10