

# EGRA SARADA SHASHI BHUSAN COLLEGE



ESTD:1968

(Reaccredited by NAAC with – 'B' Grade with a CGPA of 2.32)

An ISO Certified College for ISO 9001 : 2015 & ISO 14001 : 2015

Post – Egra : Dist – Purba Medinipur (West Bengal) : Pin – 721429.

President : Mr. Tarun Kumar Maity, M.L.A., W.B.

Principal : Dr. Dipak Kumar Tamili.

☎ : 03220-244073, Website - [www.egrassbcollege.ac.in](http://www.egrassbcollege.ac.in) : E-mail – [info@egrassbcollege.ac.in](mailto:info@egrassbcollege.ac.in)

Memo No.-

Date- 06.12.2023

Name of the certificate course: Organic Farming For Sustainable Agricultural Production

No. of the course: one

Duration of the course: Three Months

Date of inauguration: 08.12.2023

Date of completion: 07.03.2024

Syllabus of the course:

EGRA SARADA SASHI BHUSAN COLLEGE

CERTIFICATE COURSE ON 'Organic Farming For Sustainable Agricultural Production'

SESSION: 2023-2024

## SYLLABUS

DURATION: Three Months

Course	Course Name: <b>Organic Farming For Sustainable Agricultural Production</b>	Teaching Scheme in hours per week	
Certificate Course	Contents	Lectures	Practical
	<b>Unit:1 Introduction:</b> <ul style="list-style-type: none"><li>• Definition and Principle- Health, fairness, ecology and care</li><li>• Methods advantages, limitations</li><li>• Need of organic farming in present context and future prospects</li></ul>	2	





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Certificate Course	Contents	Lectures	Practical
	<b>Unit:2 Organic ecosystem</b> <ul style="list-style-type: none"> <li>• Structure and function, Productivity, Decomposition</li> <li>• Nutrient cycling, Eutrophication, Biological magnification</li> </ul>	2	
	<b>Unit:3 Soil</b> <ul style="list-style-type: none"> <li>• Definition, composition of soil texture and types, soil structure, soil profile, soil pH, humus</li> <li>• Soil factors affecting plant growth</li> <li>• Role of soil in organic Farming</li> </ul>	3	
	<b>Unit 4: Plant Nutrition</b> <ul style="list-style-type: none"> <li>• Plant nutrient- micro and Macro, Importance &amp; Deficiency symptoms</li> <li>• Soil microorganism: Mycorrhiza, Rhizosphere- Significance</li> <li>• Organic Farming- Green Manuring and organic fertilizers</li> <li>• Recycling of bio degradable municipal, agricultural and Industrial wastes</li> <li>• Methods of Bio –composting, types and methods of vermicomposting, Benefits &amp; Limitations</li> </ul>	3	
	<b>Unit 5: Organic Farm Management</b> <ul style="list-style-type: none"> <li>• Land preparation- Tools and Technique</li> <li>• Preparation of seed bed, manuring sowing, watering and raising of seedling</li> </ul>	2	



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Certificate Course	Contents	Lectures	Practical
	<b>Unit:6 Crop Management</b> <ul style="list-style-type: none"><li>• Pest control: Cultural, Biological and Mechanical Method</li><li>• Integrated Pest Management (IPM)</li><li>• Crop rotation: need and benefits</li><li>• Harvesting and Post Harvesting Management</li></ul>	3	
	<b>Unit:7 Certification and Marketing</b> <ul style="list-style-type: none"><li>• Inspection , certification &amp; Labelling procedure</li><li>• Marketing &amp; Export</li></ul>	3	
	<b>Practical</b> <ol style="list-style-type: none"><li>1. Visit to Organic Farm to study the various components, identification and utilization of Organic products.</li><li>2. Preparation of Organic compost, Vermi compost</li><li>3. Method of application of different types of fertilizer and Green manure.</li></ol>		12





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Class Routine:

## EGRA SARADA SASHI BHUSAN COLLEGE DEPARTMENT OF BOTANY

CERTIFICATE COURSE ON “Organic Farming For Sustainable Agricultural Production”

SESSION: 2023-2024

DATE: 08.12.2023 - 07.03.2024

DAY	10.15-11.15	11.15-12.15	12.15-1.15	1.15-2.15	2.15-3.15	3.15-4.15	4.15-5.15
MON		Theory(MK)	Theory(S.R)	Theory(RB)			
TUE	Theory(MM)	Theory(MM)	Theory(BP)	Theory(MP)			
WED		Theory(MP)	Theory(S.R)	Theory(MK)			
THURS	Theory(MM)	Theory(MM)	Theory(RB)	Theory(MP)			
FRI	Practical(RDA)	Theory(S.Roy)					
SAT	Practical(MM)	Theory(MP)					

MP- Prof. Maniklal Pati ; MK-Prof. Mamtaj Khatun; SR- Prof. Sambhu Rana; RB- Prof. Rachana Bera;  
BP- Prof Biswajit Pradhan; S.Roy- Prof. Saswati Roy ;MM- Mr. Manoj Mukherjee; RDA- Mr. Ramkrishna Das  
Adhikari

Countersigned by Principal, Egra S.S.B College

Principal  
EGRA S.S.B. COLLEGE  
P.O.- Egra, Purba Medinipur

Mamtaj Khatun

Signature of Course Co-ordinator

(Signature)  
Head of the Department of Botany  
Egra S.S.B. College



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## Course Outcomes:

By successfully completing the course, students will be able to:

- 1. Understanding organic principles:** students will understand various principles, need and prospect of organic farming including the importance of sustainability, biodiversity, and ecological balance.
- 2. Practical Skill:** students will gain hands on experience through field work, farm visits to apply their knowledge in a real world setting.
- 3. Soil health and fertility:** learners will explore the significance of soil health in organic farming and various methods to enhance soil fertility through composting and crop rotation.
- 4. Marketing and Economics:** students will learn about marketing organic products, understanding consumer demand and the economic aspect of organic farming.

**Name of the course Co-ordinator:** Prof. Mamtaj Khatun,  
Assistant Professor, Department of Botany  
Egra S.S.B College.

**Contact No. of the course Co-ordinator:** 9064900946

  
Principal  
EGRA S.S.B. COLLEGE  
P.O.- Egra, Purba Medinipur







