

EGRA SARADA SHASHI BHUSAN COLLEGE

ESTD. : 1968

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

An ISO CertifiedCollege 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 : E-mail – info@egrassbcollege.ac.in



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☎ – 03220-244073 / 245557

Fax – 03220245867.


Memo No:

Date – 02.01.2023

It is to notify that the Department of Botany, Egra S.S.B College is going to introduce a Certificate Course, Title: Horticulture & Mushroom Cultivation , Theory & Practical from January to March, 2023. Interested Students are advised to contact with H.O.D, Department of Botany to enroll their names for this course. First come 1st preference.

Seat Capacity: 40

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


Principal
Egra S.S.B. College
Principal
EGRA S. S. B. COLLEGE
P. O : Egra, Purba Medinipur
West Bengal



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	<p>Unit:2 Post Harvest Management of Horticultural Crops Importance of post-harvest technology in horticultural crops. Maturity indices, harvesting, handling, grading of fruits, vegetables, cut flowers, plantation crops, medicinal and aromatic plants. Pre-harvest factors affecting quality, factors responsible for deterioration of horticultural produce, physiological and bio-chemical changes, hardening and delaying ripening process. Post-harvest treatments of horticultural crops. Quality parameters and specification. Structure of fruits, vegetables and cut flowers related to physiological changes after harvest mushrooms.</p>	3	
	<p>Unit:3 Principles of Landscape Gardening Principles and elements of landscape design, plant material for landscaping, symbols, tools and implements used in landscape design, layout of formal gardens, informal gardens, special type of gardens (bog garden, sunken garden, terrace garden, rock garden) and designing of conservatory and lathe house. Landscape design for specific areas.</p>	3	
	<p>Unit:4 : Plantation Crops History and development, scope and importance, area and production, export and import potential, role in national and state economy, uses, industrial importance, by products utilization, soil and climate, varieties, propagation: principles and practices of seed, vegetative and micro-propagation, planting systems and method</p>	3	
	<p>Unit:5 Processing of Horticultural Crops Importance and scope of fruit and vegetable preservation industry in India, food pipe line, losses in post-harvest operations, unit operations in food processing. Principles and guidelines for the location of processing units. Principles and methods of preservation by</p>	2	3

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	<p>heatpasteurization, canning, bottling. Methods of preparation of juices, squashes, syrups, cordials and fermented beverages. Jam, jelly and marmalade. Preservation by sugar and chemicals, candies, crystallized fruits, preserves chemical preservatives, preservation with salt and vinegar, pickling, chutneys and sauces, tomato and mushrooms, freezing preservation. Processing of plantation crops, products, spoilage in processed foods, quality control of processed products, Govt. policy on import and export of processed fruits. Food laws.</p>		
	<p>Unit:6 Mushroom Culture- Introduction Introduction, history. Nutritional and medicinal value of edible mushrooms; Poisonous mushrooms. Types of edible mushrooms available in India - Volvariella volvacea, Pleurotus citrinopileatus, Agaricus bisporus.</p>	2	
	<p>Unit:7 Theory/ concept of Mushroom Culture Definition and characteristics of mushroom. Morphology and life cycle of Mushroom. Identification and classification of mushroom. Nutritional and medicinal value of edible mushrooms, poisonous mushrooms.</p>	2	1
	<p>Unit:8 Cultivation technology Infrastructure: substrates (locally available) Polythene bag, vessels, Inoculation hook, inoculation loop, low cost stove, sieves, culture rack, mushroom unit (Thatched house) water sprayer, tray, small polythene bag. Pure culture: Medium, sterilization, preparation of spawn, multiplication. Mushroom bed preparation - paddy straw, sugarcane trash, maize straw, banana leaves. Factors affecting the mushroom bed preparation - Low cost technology, Composting technology in mushroom production.</p>		3
	<p>Unit:9 Storage and nutrition Short-term storage (Refrigeration</p>		2

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	upto 24 hours) Long term Storage (canning, pickels, papads), drying, storage in salt solutions. Nutrition - Proteins - amino acids, mineral elements nutrition - Carbohydrates, Crude fibre content - Vitamins.		
	Unit:10 Food Preparation Types of foods prepared from mushroom.	1	
	Unit:11 Cost benefit ratio Marketing in India and abroad, Export Value.	1	
	Unit:12 Visit to Mushroom Culture and Horticulture Centres/ Farms for: Process involved in crop and mushroom cultivation Types and varieties of mushroom. Identification of edible and poisonous mushroom Marketing. preparation of fertilizer mixtures and field application, preparation and application of growth regulators, layout of different irrigation systems, identification and management of nutritional disorder in fruits and vegetables, assessment of bearing habits, maturity standards, harvesting, grading, packaging and storage.		2

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Class Routine:

EGRA SARADA SASHI BHUSAN COLLEGE
DEPARTMENT OF BOTANY
CERTIFICATE COURSE ON “ Horticulture & Mushroom cultivation”
SESSION: 2023
DATE: 07.02.2023-30.05.2023

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							
TUE		Theory(MK)	Theory(RB)	Practical(RDA)			
WED		Theory(MP)	Theory(MM)	Theory(MK)			
THURS		Theory(MP)	Theory(RDA)	Theory(MK)			
FRI		Theory(MK)	Theory(SR)	Practical(MM)			
SAT		Theory(MM)	Theory(BP)	Practical(RDA)			

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



(Signature)
Principal,
EGRA S. S. B. COLLEGE
Egra, Purba Medinipur

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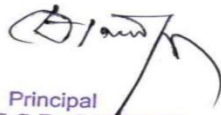


Course Outcomes:

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

- Candidates interested in working in agriculture will benefit greatly from this training. This course will teach them how to farm a variety of crop plants.
- Candidates who successfully complete this course will be prepared to undertake any type of agricultural research in the future. They can improve seeds, study breeding conditions, and conduct a variety of other studies.
- Candidates can work on their own farms and horticulture gardens. They can create their own farming companies.
- This course provides numerous opportunities for government careers. Candidates with a degree in Horticulture will always be in demand in the job market because farming will always be an essential sector.
- Understanding mushrooms, types (edible & poisonous) and mushroom production.
- Learning, cultivation of different edible mushrooms.
- Introduction with climatic requirements of mushroom cultivation.
- Knowledge of harvesting and post harvesting processes of mushroom.




Principal
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Memo No. –

Date – 07.02.2023

Inaugural Programme of Certificate Course on “ Horticulture and Mushroom Cultivation”. Organised by Department of Botany, Egra S.S.B.College, Collaboration with Department of Agriculture, Egra-1 Block, Purba Medinipur, Egra, Date: 07.02.2023, Time: 11.00 A.M, Venue – Administrative Building, Conference Hall.

SL NO	NAME	SUBJECT	SEMESTER	WHAT'S APP NO	Email ID
1	Raju Jana	Botany	1 st	6296774112	rajujana29062004@gmail.com
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20	Sanjay Shit	Botany	1 st	7365953555	shitsanjay133@gmail.com

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22	Biswanath Jana	Botany	1 st	7479328681	biswanathjana718@gmail.com
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24	Ananda Barik	Botany	1 st	8293058830	Barikananda94@gmail.com
25	Debasis Panda	Botany	1 st	8653719084	debasishp517@gmail.com
26	Mousumi Sasmal	Botany	1 st	8637099730	Sourav Sasmal522@gimal.com
27	Sneha Payra	Botany	1 st	8649885698	Payrasneha@gmail.com
28	Souvik Das	Zoology	3 rd	9064773325	sd4789943@gmail.com
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31	Shiuli Ojha	Nutrition	6 th	7384704030	Shiuli ojha 27@gmail.com
32	Saptaparna Bera	Zoology	3 rd	9641604305	Sumitrabera535@gmail.com
33	Moumita Payra	Botany	6 th	8597667357	moumitapayra34@gmail.com
34	Mousumi Mandal	Botany	6 th	9635799219	mandalmousumi615@gmail.com
35	Sampa Jana	Zoology	1 st	9735533929	sampaj089
36					

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Pic: 1. Inaugural Programme of Horticulture and Mushroom Courses of Dept of Botany



Pic:2. Certificates given by Dr. Dipak Kr. Tamili (Principal ESSBC) and Dr. Riyasen Mondal (ADA of Agriculture, Purba Medinipur, WB)

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Pic:3. Students with Certificates of Horticulture and Mushroom of Dept of Botany