

GOVERNMENT DEGREE COLLEGE RAJAMPETA
DEPARTMENT OF BOTANY



ANNUAL CURRICULAR PLAN
2023-2024

B.NAGESH BABU,
LECTURER IN BOTANY

GOVT. DEGREE COLLEGE, RAJAMPET, KADAPA DISTRICT

Annual Curricular Plan (Lecturer wise):2023-24

Name of the Lecturer: B.NAGESH BABU
M.Sc., B.Ed.,

Academic Year: 2023 – 2024 Class: B.Sc.(B.Z.C& BCCS)EM Subject: BOTANY Semester: V

S.no	Month	Week	Hours available	Syllabus topic	Additional Input/ Value Addition Provided /taught	Curricular Activity				Co-curricular Activity				Remarks
						Activity Conducted	Hours allotted	Whether conducted	If not, alternate date	Activity Conducted	Hours allotted	Whether conducted	If not, alternate date	
1.	AUGUST-2023													
		Week-4	3+3	Commencement of Classes for V Sem 28-08-2023 Mushrooms: Definition, Structure of mushroom and brief account of life cycle. Identification of different types of mushrooms.	Understand the structure of mushrooms	Assignment	1	Yes	-	seminar	1	yes		

B. Nagesh Babu
Signature of the Lecturer

Signature of the Department I/C

Signature of the Principal

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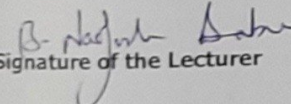
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2.	SEPTEMBER-2023	Week-1	3+3	Historical account and scope of mushroom cultivation, difference between edible and poisonous mushrooms. Identification of different types of mushrooms.	Differentiate the mushrooms	Unit test	1	Yes	-	seminar			-	
		Week-2	3+3	Morphological features of any four edible mushrooms, Button mushroom (<i>Agaricus Bosporus</i>), Milky mushroom (<i>Calocybe indica</i>), Oyster mushroom (<i>Pleurotus sajor-caju</i>) and Paddy straw mushroom (<i>Volvariella volvacea</i>).	Importance of mushrooms	Assignment	1	Yes	-		1	Yes	-	
		Week-3	3+3	Nutraceutical value of mushrooms; medicinal mushrooms in South India - <i>Ganoderma lucidum</i> , <i>Phellinus rimosus</i> , <i>Pleurotus florida</i> and <i>Pleurotus pulmonaris</i> -	Differentiate the value and harms of mushrooms	Assignment	1	Yes	-				-	
		Week-4	3+3	Mushrooms- their therapeutic value; Poisonous mushrooms-harmful effects. Preparation of pure culture of an edible mushroom.	Understand the value of mushrooms	1st internal exams	1	yes		Group Discussion	1	Yes	-	


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October - 2023	Week-1	3+3	Small village unit and larger commercial unit; layout of a mushroom farm - location of building plot, design of farm, bulk chamber, composting, equipment and facilities, pasteurization room and growing rooms. Preparation of mother spawn.	Knowledge about mushroom form	Internal exams			-	Quiz	1	Yes	-	
	Week-2	3+3	equipment and facilities, pasteurization room and growing rooms. Preparation of mother spawn	Understand the preparation of mother spawn				-			yes	-	
	Week-3	3+3	Compost and composting: Definition, machinery required for compost making, materials for compost preparation. Production of planting spawn and storage.	Knowledge about compost	Assignment	1	Yes	-	seminar	1	Yes	-	
	Week-4	3+3	Methods of composting - long method of composting and short method of composting. Spawn and spawning: Definition, facilities required for spawn preparation; preparation of spawn substrate.	Knowledge about compost	Unit test	1	yes		seminar	1	Yes	-	

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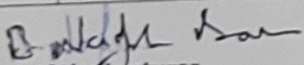
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Name of the Lecturer: **B. NAGESH BABU** Academic Year: 2023 – 2024 Class: **B.Sc. (B.Z.C&BCCS)EM** Subject: **Botany** Semester: **V**
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4.	November-2023	Week-1	3+3	Preparation of pure culture, media used in raising pure culture; culture maintenance, storage of spawn Casing: Preparation of compost and casing mixture.	Develop skill in pure culture preparation	Assignment	1	yes	-	Quiz	1	Yes	-	
		Week-2	3+3	Definition, Importance of casing mixture, Quality parameters of casing soil, different types of casing mixtures, commonly used materials.	Understand the equipment's used in cultivation	Slip test	1	yes	-	Group Discussion	1	Yes	-	
		Week-3	3+3	Raw material, compost, spawning, casing, cropping, and problems in cultivation (diseases, pests and nematodes, weed molds and their management strategies),	Know the problems in cultivation	Assignment	1	Yes	-	Field trip	1	yes	-	
		Week-4	3+3	picking and packing for the following mushrooms: (a) Button mushroom (b) Oyster mushroom (c) Milk mushroom and (d) Paddy straw mushroom Knowledge about self-life of mushrooms	Understand the picking and packing of mushrooms	Internal exams	1	Yes	-	seminar	1	yes	-	


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5.	DECEM BER- 2023	Week-1	3+3	Shelflifeofmushrooms; preservationofmushrooms- freezing,dryfreezing,dryingandcanning. Hands on experience on cropping and harvesting	Knowledge about self-life of mushrooms	Internal exams	1	1	yes	seminar	1	yes		
		Week-2	3+3	Qualityassuranceand entrepreneurship- economics ofdifferent typesofmushrooms;valueadded products ofmushrooms. Demonstration of storage methods. Managementofspentsubstratesand wastedisposalofvariousmushrooms. Preparation of value-added products.	Understand about storage methods of mushrooms									
		Week-3	3+3	REVISION OF THE SYLLABUS V SEMESTER UNIVERSITY INTERNAL PRACTICAL EXAMINATIONS										
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