

SAIVA BHANU KSHATRIYA COLLEGE

(Affliated to Madurai Kamaraj University)

ARUPPUKOTTAI - 626101

NON – MAJOR ELECTIVE –BOTANY FOR CHEMISTRY MAJOR

SYLLABUS

NME-BOTANY THEORY PAPER-I

Department: ANCILLARY BOTANY			
Year: NOVEMBER/ DECEMBER OF EVERY YEAR	Semester: V (ODD)		
Subject Name: Mushroom Cultivation	Subject Code: SBYJN51		

Subject	Instructions		Examination		
NME-BOTANY	Hours/Week	Credits	Marks		
THEORY PAPER-I			Internal	Board	
			Assessment	Examination	Total
MushroomCultivation	2Hrs	2	25	75	100

	Course Objectives			
On su	On successful completion of the course the students will be able to			
1	Understand the Historical Background and Current status of Mushroom Cultivation			
2	Know the Edible and Poisonous Mushroom			
3	Cultivate three types of edible mushrooms.			
4	Understand the utility of plant waste and animal waste.			
5	Develop the skills of spawn production and mushroom recipe			

Unit	Content			
No.	Content			
1	 Unit I Historical background, Distribution of edible mushroom in India Present status of mushroom cultivation in India. General characters of Mushroom. 			
2	Unit II			
	 Edible mushroom, Non edible mushroom. Nutritional value and importance of mushrooms. Mushrooms as Medicine, Recipes of mushroom. 			
3	Unit III			
	• Spawn production methods, factors affecting spawn production – storage of spawn.			
	Unit IV			
4	Substrates used in mushroom cultivation. Cultivation methods and Harvesting. Ex:			
	Button mushroom and Milky mushroom			
5	Unit V			
	 Cultivation Methods and Harvesting of Oyster mushroom - Ganoderma, Pests and diseases affecting mushroom and their control measures. 			

	Course Outcome
	Students should able to
CO1	 Understand the Historical Background of Mushroom, Present Status of Mushroom Cultivation in India and Distribution of Edible Mushroom in India
CO2	Know General Characters of Mushroom, Edible Mushroom and Non –Edible Mushroom, Nutritional Value, Medicinal Value and Importance of Mushroom, Recipes of Mushroom and the Importance Of Ganoderma,
CO3	Know the Preparation and Storage of Spawn and Substratum Storage of Spawn
CO4	Know the Cultivation Methods and Harvesting of Button Mushroom and Milky Mushroom and Oyster Mushroom.
CO5	 Understand the Different Pests and Disease affecting Mushroom and their Control Measures.

REFERENC BOOKS

- 1) Nita Bahl., 1998. Hand Book on Mushrooms. Oxford & I B H, Publishers, New Delhi.
- 2) Muthusamy, A.D & Yesuraju., 1999. Mushroom culture. TNAU Publication. Madurai.
- 3) Suman, B.C &V.P.Sharma., 2005. Mushroom cultivation and uses "Agrobios (India) Jodhpur.
- 4) Kumarsesan.K., 2007. Biotechnology, Saras Publications, Nagercoil.

NME-BOTANY THEORY PAPER-II

Department: ANCILLARY BOTANY	
Year: APRIL/MAY OF EVERY YEAR	Semester: VI (EVEN)
Subject Name: Plant utility and Exploitation	Subject Code: SBYJN61

Subject	Instructions		E	xamination	
NME-BOTANY	Hours/Week	Credits	ts Marks		
THEORY PAPER-II			Internal	Board	
Plant utility and Exploitation	277		Assessment	Examination	Total
	2Hrs	2	25	75	100

	Course Objectives			
On s	On successful completion of the course the students will be able to			
1	•	Know the Origin of cultivated plants, Vavilov"s, centre"s of origin.		
2	•	Understand the Plants as sources of food, fodder, fibres, spices, Beverages, Drugs, narcotics, insecticides, timber, gums, resins and dyes, Latex, cellulose, starch and perfumes		
3	•	Know the Importance of Ethno botany in India context, Energy plantation, Botanical gardens and Herbaria.		

Unit	Contont		
No.	Content		
1	 Unit I Origin of cultivated plants, Vavilov"s, centre"s of origin. 		
2	Unit II		
	 Plants as sources for food, fodder, fibres, spices, Beverages. 		
3	Unit III		
	 Drugs, narcotics, insecticides, timber, gums, resins and dyes. 		
4	Unit IV		
4	 Plant as sources of Latex, cellulose, starch and their products, perfumery 		
5	Unit V		
	 Importance of Ethno botany in India context. Energy plantation, Botanical gardens and Herbaria. 		
	Course Outcome		
	Students should able		
CO1	To Know the Origin of Cultivated Plants, Vavilov's Centre's of Origin.		
CO2	To Understand the Plants as Source for Food, Fodder, Fibres, Spices, Beverages Drugs, Narcotics, Insecticides, Timber, Gums, Resin, Dyes, Latex, Cellulose, Starch and Perfume.		

Unit No.	Content
CO3	To Know the Importance of Ethno Botany in India Context
CO4	To Understand the Concepts of Energy Plantation .
CO5	To Understand the Importance of Botanical Gardens and Herbaria

REFERENC BOOKS

- 1. Hill, A.F., 1983. Economic Botany. Tata McGraw-Hill Publishing company Ltd., New Delhi.
- 2. Chopra., et al., 1956. Glossary of India Medicinal plants. CSIR, New Delhi.
- 3. Pandey, B.P., 2000. Economic Botany. S. Chand & Co., Ltd.. New Delhi.
- 4. Pandey, B.P., 2007. Taxonomy of Angiosperms. S.Chand& Co., Ltd., New Delhi.