Practical Plan

Name of the college:	Government	College of A	Arts, Scienc	e & Commerce	, Sanquelim-Goa

Name of Faculty: Dr Tanvi Nitin Prabhu

Subject: Botany

Paper code: BOT 321 (Mushroom Cultivation Technology)

Program: T.Y.B.Sc

Batch: - NA

Academic year: 2025 - 2026 Semester: V Total Practicals/Labs: 15

Credits: 01

Course Objectives:

- 1. Train students in basic mushroom cultivation techniques.
- 2. Impart knowledge of pest and disease management and post-harvest technology.
- 3. Upskill students for mushroom entrepreneurship and research.

Expected Course Outcome:

- 1. Identify important cultivated edible mushroom species available in India.
- 2. Develop basic skills in spawn production, substrate preparation and mushroom cultivation.
- 3. Recognize and manage mushroom diseases and pests.
- 4. Create employment opportunities through mushroom cultivation and motivate them for research

Student Learning Outcome:

- 1. Identify important cultivated edible mushroom species available in India.
- 2. Develop basic skills in spawn production, substrate preparation and mushroom cultivation.
- 3. Recognize and manage mushroom diseases and pests.
- 4. Create employment opportunities through mushroom cultivation and motivate them for research

Month	Practicals/Labs	No. of	List of Experiments	Reference books
	Scheduled Date	Practicals/Labs		
		planned		

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June 2025	27.06.2025	01	Basidiocarp morphology of oyster mushroom; L.S. of basidiocarp, section through gill and mounting of spores.	17
July 2025	04.07.2025	Basidiocarp morphology of button mushroom; L.S. of basidioca section through gill and mounting of spores.		
			section through girl and mounting of spores.	
	11.07.2025	01	Preparation and sterilization of media (Malt Extract Agar and Potato	
	11.07.2025	01	Dextrose Agar).	
			Dexirose rigin).	
	18.07.2025	01	Preparation and sterilization of media (Malt Extract Agar and Potato	
			Dextrose Agar).	
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	25.07.2025	01	Preparation and sterilization of media (Malt Extract Agar and Potato	
			Dextrose Agar).	
August 2025	08.08.2025	01	Initiation of culture from mushroom tissues and spores.	
	22.08.2025	01	Preparation of spawn and substrate for oyster mushroom cultivation	
			and milky white mushroom cultivation.	
	29.08.2025	01	Preparation of spawn and substrate for oyster mushroom cultivation	
			and milky white mushroom cultivation.	
September	12.09.2025	01	Preparation of spawn and substrate for oyster mushroom cultivation	
		and milky white mushroom cultivation.		
	19.09.2025	01	Inoculation and bagging of substrate using oyster mushroom spawn	
			and milky white mushroom spawn.	
October	03.10.2025	01	Debagging, initiation of fruiting and harvesting of oyster mushrooms.	
	10.10.2025	01	Casing, initiation of fruiting and harvesting of milky white	
			mushrooms.	
			Mushroom preservation – drying, storage in brine and pickle making.	
			Packaging and marketing of fresh and dry mushroom products.	