

**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE,
CONGRESS NAGAR, NAGPUR**

**Department of MICROBIOLOGY
Session 2023-2024**

Organizes Workshop on Plant Tissue Culture

Date – 9/02/2024

Plant Tissue culture workshop was organized by Department of Biotechnology, in collaboration with Department of Botany S.S.E.S.A's Science College, Nagpur during **09th February 2024**. Plant Tissue culture workshop was conducted under the chairmanship of Hon'ble Principal Prof. Mahendra Dhore, Coordinator- Prof. Atul Bobdey , Prof. Rajendra Deshmukh Head Department of Botany and Convener- Dr. Pranita Gulhane & Prof. Punita Tiwari . A total of 21 students from UG Botany & UG Biotechnology of the college have participated the same and expressed the creativity in it.

The hands-on training in plant tissue culture is conducted in a laboratory equipped with laminar flow hoods, autoclaves, incubators, and other necessary equipment. The training is divided into theoretical sessions and practical demonstrations.

Theoretical Session:

Introduction to plant tissue culture, Aseptic Techniques-Principles of sterility, method of sterilization & prevention of contamination, Culture Initiation-Explant selection, surface sterilization & culture establishment & Applications-Micropropagation, synthetic seed production.

Practical Demonstration:

Preparation of nutrient media: Weighing and mixing of components, pH adjustments, and sterilization. Sterilization Techniques: Surface sterilization of explants using chemicals (ethanol) and heat (e.g autoclaving).

The hands on training provided students with valuable practical skills in plant tissue culture, focusing specifically on media preparation, inoculation and surface sterilization. Through surface sterilization exercises, students grasped the significance of eliminating contaminants to establish pure culture.



Plant Tissue Culture Workshop organized by Microbiology Department (9/02/24)



**On the Occasion of Dr. Panjabrao alias Bhausaheb Deshmukh's
125th Birth Anniversary Year,
R.T.M. Nagpur University Centenary Year**

**Dept. of Botany in Collaboration with Dept. of Microbiology,
Science College, Congress Nagar, Nagpur
Organizes**

workshop
on
Plant Tissue Culture Technique

Workshop Objective: Plant Tissue culture is an important tool for both basic and applied aspects of plant biotechnology as well as its commercial applications. All techniques are skill based and upon systematic learning, can equip a person to effectively utilize the techniques in various areas like basic research, environmental issues and commercial applications. It is a valuable tool for research on crop improvement by biotechnology. Plant Tissue Culture is a practice used to propagate plants under sterile conditions, often used to produce clones of a plant. Different techniques in Plant Tissue culture offer advantages over traditional methods of propagation which includes the production of multiple clones of plants in the absence of seeds or pollinators necessary to produce seeds and mature plants. This workshop offers a comprehensive hands-on training for learning the basics with an insight to laboratory.



Venue: Botany Research Lab.
Date: 9th February 2024
Time: 10:00 AM onwards



Prof. Atul Bobdey
Coordinator
Dept. of Biotechnology

Prof. Mahendra Dhore
Chairman & Principal
Science College, Nagpur

Prof. Rajendra Deshmukh
Head
Dept of Botany

Coordinators

Dr. Pranita Gulhane

Prof. Punita Tiwari

Organizers

Ms. Shruti Agrawal
Ms. Mayri Bhad

Ms. Aishwarya Zure
Ms. Nupur Deshmukh

Dept. of Microbiology

In Association With

Dept. of Botany

DATE: / /
S.S.E.S.A's Science College Naggur


PAGE No: _____

DT: 09/02/2024

WORKSHOP on "PLANT TISSUE CULTURE TECHNIQUE"

NAME OF STUDENTS	SIGNATURE
1. Astha. A. Sakharwade.	
2. Akanksha. R. Bisen	B
3. Akanksha. V. Tekade	Akanksha
4. Anisha A. Shende	A
5. Anuradha purushottam Khope	Anuradha
6. Arshiya shaiikh mushtaque	Arshiya
7. Arya. S. walode	Arya
8. Bhisvati Mahesh Dhurve	Bhisvati
9. Ishita. Y. padgil	Ishita
10. Ishwari. N. Cawande	Ishwari
11. Leena. N. Meher	Leena
12. Manisha. G. Jilhare	Absent
13. Manisha. R. Roy.	Manisha
14. Namrata. O. Nagose	Nagose
15. Ojaswini Bhagat	Ojaswini
16. Rujuta. R. Ramteke	Rujuta
17. Shamim. Kaurshar	Shamim
18. Snehal. Sahare	S.N. Sahare
19. Vaishnavi. Ingle	Vaishnavi
20. Vani mastaran	Vani
21. Jashoda. Ravindra wade	Jashoda




Dr. Parvita Gullae