

**SRR & CVR GOVT. DEGREE COLLEGE (A) VIJAYAWADA**  
**DEPARTMENT OF MICROBIOLOGY**



## **Guest Lecture**

### **Pure Culture Techniques and Preservation of Microbial Cultures**

**15<sup>th</sup> December 2022**





## S.R.R. & C.V.R. GOVT. DEGREE COLLEGE

(Autonomous)

NAAC accredited with 'B' Grade

Machavaram, VIJAYAWADA - 520 004, Krishna District.

Cell: 9848251236 Ph: 0855 2430060, Fax: 0855 2441092, www.srrcvt.ac.in srrandcvt@gmail.com



Dr. K. Bhagyaa Lakshmi, M.Sc. B.Ed  
Principal

Date: 15/12/2022

To  
The Principal  
Govt. Degree College For Women (A)  
Guntur  
Andhra Pradesh

Respected Madam,

Sub: Department of Microbiology – Invitation - Guest Lecture on Pure Culture Techniques and Preservation of Microbial Cultures – Dr. K. Sucharitha - December 17<sup>th</sup> 2022 - Permission – Request – Regarding.

We pleased to invite Dr. K. Sucharitha, Lecturer in Microbiology of your college to deliver a Guest Lecture on **Pure Culture Techniques and Preservation of Microbial Cultures** to our I BSc Microbiology students on December 17<sup>th</sup> 2022 in our college. In this regard I request you to permit her to deliver the lecture.

Thanking you

*K.L.C.P. Ch*  
V/C PRINCIPAL 15.  
*J. S. Ch*  
PRINCIPAL  
SRR & CVR GOVT. DEGREE COLLEGE  
(Autonomous)  
Machavaram, VIJAYAWADA-520 004

# **SRR & CVR GOVT. DEGREE COLLEGE (A) Vijayawada**

## **Department of Microbiology**

### **Activity Register 2022-2023**

Date	15-12-2022
Conducted through (DRC/JKC/ELF/NCC/NSS/Departments etc.)	<b>Department of Microbiology</b>
Nature of Activity (Seminar/Workshop/Extn. Lecture etc.,)	<b>Guest Lecture</b>
Title of the Activity	<b>Pure Culture Techniques &amp; Preservation of Microbial Cultures</b>
Name of the Department/Committee	Department of Microbiology
No. of students participated	30 I BSc MBC & MBF
Brief Report on the activity	<p>The Department of Microbiology has Organized Guest Lecture on topic <b>Pure Culture Techniques &amp; Preservation of Microbial Cultures</b>.</p> <p>Dr. K. Sucharitha HOD Microbiology GDC Women's Guntur acted as the Resource person. The students of I yr MBC &amp; MBF have participated and the session is so interactive. Dr. K. Sucharitha explained technique. Explained Serial Dilution Technique, Steak plate, Spread and Pour plate techniques.</p> <p>The participants understood the techniques and got benefited.</p>
Name of the Lecturers who Planned & conducted the activity	Dr .D .Jyothi
Signature of the In- Charge	<i>D. Jyothi</i>
Signature of the Principal	

## OBJECTIVES

1. To demonstrate good aseptic technique in culture transfer or inoculation and in handling sterile materials.
2. To demonstrate skill in isolation of organisms from a mixed culture using selective and differential media.
3. To isolate microorganisms from a wide variety of sources and describe their colonial morphology.

### **Aseptic Technique**

The single colony is transferred (picked) to a fresh medium to obtain a larger, homogeneous culture that may be studied and characterized by a variety of techniques. One such technique is called. Microbiologists and health workers use this technique to prevent contamination of cultures from outside sources and to prevent the introduction of potential disease agents into the human body (infection can occur through contamination of your hands and clothing with material from your bacterial cultures). Aseptic Techniques Aseptic techniques (also called sterile techniques) are defined as the processes required for transferring a culture from one vessel to another without introducing any additional organisms to the culture or contaminating the environment with the culture.

The following conditions must exist for aseptic technique to be successful:

1. The work area must be wiped with an antiseptic to reduce the number of potential contaminants.
2. The transfer instruments must be sterile.
3. The work must be accomplished quickly and efficiently to minimize the time of exposure during which contamination of the culture or laboratory worker can occur.

Developing a thorough understanding and knowledge of aseptic techniques and culture transfer procedures is a prerequisite to working with microbiological cultures.



**Dr. K. Sucharitha, HOD Microbiology GDC Women's Guntur Presenting on  
Pure Culture Techniques & Preservation of Microbial Cultures  
To I BSc (MBC & MBF), Dec 15<sup>th</sup> 2022**

## **ACKNOWLEDGEMENTS**

I express my deep sense of gratitude to Dr. K. Bhagya Lakshmi, Principal SRR & CVR Govt. Degree College Autonomous, and Vijayawada for her support and constant encouragement to upgrade the knowledge and skills of students.

I wish to express my sincere thanks to Dr. K. Sucharitha, HOD Microbiology GDC Women's Guntur has acted as Resource person for Guest Lecture Conducted by Department of Microbiology.

In-Charge Dept of Microbiology

*D. Jyothi*

PRINCIPAL

S.RR and CVR Govt. Degree College (A),  
Vijayawada

Department of Microbiology

Students Attended

Title of the Activity:

Guest- Lecture on Pure culture Techniques

Class:

Bsc MBC and MBF Sem-I

Date:

15-12-2022

S No	Name of the Student	Signature	Remark
1	R. Sai Kumar [MBF]	R. Sai Kumar	Excellent
2	D. Prabhas [MBC]	D. Prabhas	Excellent.
3	D. Ganeswar [MBC]	D. Ganeswar	Excellent
4	J. Suni Kumar	J. Suni Kumar	good
5		T. T. N. Prasad	Excellent
6	SK. Shaheed Basha	SK. Shaheed	good
7	P. Vinay Kumar	P. Vinay Kumar	good.
8	B. Mahesh	B. Mahesh	Good
9	SK. Rasool/Sadiq	Rasool Sadiq	Excellent
10	K. Pavankumar Reddy	K. Pavankumar Reddy	good
11	D. Manoj Kumar	D. Manoj Kumar	good
12	G. Shikhar	Shikhar	good
13		Lahari	
14	K. Sizi [MBF]	Sizi Sate	Good
15	D. Hyma [MBF]	Hyma	Good
16	L. Divya Sri (MBF)	L. Divya Sri	Good.
17	M. Naveen	M. Naveen	Excellent.