

Rayat Shikshan Sanstha's

**D. P. Bhosale College, Koregaon**

**Department of Microbiology (2022-2023)**

**Notice**

Date: 3/12/2022

All the student of B.Sc. III (Microbiology) are the here by informed that Department of Microbiology going to organize your Skill Based Course **Become a Microbiology Laboratory Technician** has been Scheduled from 2<sup>nd</sup> January 2023 to 31<sup>st</sup> January 2023. Kindly, remain present at Prescribed time in lecture hall.



**Head**  
**Department of Microbiology**



**Principal,**  
**D.P. Bhosale College, Koregaon**

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Microbiology (2022-2023)

**Skill based course ( UG)**

**Become a Microbiology Laboratory Technician**

**Registration List**

<b>Sr. No.</b>	<b>Student Name</b>
1.	Barge Sharaddha Dipak
2.	Gore Siddhi Suresh
3.	Jagdale Nikita Nandkumar
4.	Jagtap Kedar Ramesh
5.	Kadam Shruti Saudagar
6.	Kadam Vivek Pralhad
7.	Nikam Prajwal Dattatray
8.	Nikam Rushikesh Vikas

Rayat Shikshan Sanstha's

**D. P. Bhosale College, Koregaon**

**Department of Microbiology (2022-2023)**

**Skill Based Course (UG)**

**Become a Microbiology Laboratory Technician**

### **Introduction:**

Technologists in microbiology laboratories analyze and recognize microorganisms like bacteria and viruses. This is an entry-level position for technologists with a bachelor's degree in medicine and technology or biological sciences. Lab Technician & Microbiology Instructor developed the Become a Microbiology Laboratory Technician certification course, which is now available on Udemy for students who want to improve their skills and expertise in the field of medical microbiology to become microbiologists or lab technicians.

### **Course overview**

Become a Microbiology Laboratory Technician online training contains 2 hours of theory and practical based learning resources and designed to provide students with all of the necessary materials and instruction to become microbiology lab technicians. Become a Microbiology Laboratory Technician online classes discusses topics like immunodiagnosis, pathogenesis, phenotyping, genotyping, serotyping, staining, cell culture, and antibiotic susceptibility testing as well as teach them the core skills and techniques to diagnose diseases caused by viruses and bacteria.

## **Syllabus of Course**

### **Introduction**

- Introduction
- What is this course about?

### **What is Microbiology?**

- What is Microbiology
- What are Bacteria?
- What are Viruses?

- What is Microbiology?

What does a Microbiology Laboratory look like?

- What does a Microbiology Laboratory look like
- Laboratory Instruments
- Responsibilities of a Lab Tech
- What does a Microbiology Laboratory look like?

Bacterial Disease Diagnosis

- What is Microscopy?
- What is Staining?
- Culture Media
- Species Identification: Phenotyping
- Species Identification: Genotyping
- Serotyping
- Antibiotic Susceptibility Testing

Viral Disease Diagnosis

- Pathogenesis
- Staining and Microscopy
- PCR and ELISA
- Immunodiagnosis and Cell Culture
- Influenza Viruses and Coronavirus
- Vaccines and Social Distancing

Career Opportunities in Microbiology

- Career Opportunities in Microbiology

**Board of studies-**

Mrs. S. P. Nalawade

Miss. S. A. Kshirsagar

Miss. A. S. Kavthalkar

Mr. A. S. Bansode

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**D. P. Bhosale College, Koregaon**

**Department of Microbiology (2022-2023)**

**Skill based course (UG)**

**Become a Microbiology Laboratory Technician**

**Timetable of the course**

Class	Time	Friday 06/01/2023	Saturday 07/01/2023
B.Sc III	11:20 am -12.08 pm	ASK	SAK
	12.08 pm -12.56 pm	ASB	ASK
	3.00 pm - 4.00 pm	SAK	ASB

Class	Time	Friday 13/01/2023	Saturday 14/01/2023
B.Sc III	11:20 am -12.08 pm	SAK	ASB
	12.08 pm -12.56 pm	ASK	SAK
	3.00 pm - 4.00 pm	ASB	ASK

Class	Time	Friday 20/01/2023	Saturday 21/01/2023
B.Sc III	11:20 am -12.08 pm	ASB	SAK
	12.08 pm -12.56 pm	SAK	ASK
	3.00 pm - 4.00 pm	ASK	ASB

Class	Time	Friday 27/01/2023	Saturday 28/01/2023
B.Sc III	11:20 am -12.08 pm	ASB	ASK
	12.08 pm -12.56 pm	SAK	ASB
	3.00 pm - 4.00 pm	ASK	SAK

Class	Time	Monday 30/01/2023	Tuesday 31/01/2023
B.Sc III	11:20 am -12.08 pm	ASK	Exam
	12.08 pm -12.56 pm	ASB	
	3.00 pm - 4.00 pm	SAK	

Name of faculty:

Miss. S.A. Kshirsagar (SAK)

Miss. A. S. Kavthalkar (ASK)

Mr. A. S. Bansode (ASB)



**Head**

**Department of Microbiology**

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Microbiology (2022-2023)

**Skill based course (UG)**

**Question Paper (Become a Microbiology Laboratory Technician)**

**Day & Date :**

**Marks – 20**

**Time –**

**Q. 1 Multiple Choice Questions**

1. Gram stainig was introduced by which scientist?

- a. Alfred Gram
- b. Christian Gram
- c. Robert Cook
- d. Leuis Pastur

2. Widal test is done for the diagnosis of which bacteria

- a. Shigela
- b. E- Coli
- c. Salmonella
- d. Proteus

3. A virus is made up of

- a. Protein coat and nucleic acid
- b. Protein coat and mitochondria
- c. Nucleic acid and cell membrane
- d. Nucleic acid, cell wall and cell membrane

4. The shape of the TMV is \_\_\_\_\_.

- a. Rod-shaped
- b. Oval shaped
- c. Cuboidal shaped
- d. Spherical shaped

5. Infectious RNA particles without the protein coat are called \_\_\_\_\_.

- a. Prion
- b. Virion
- c. Viroid
- d. Virusoid

Que. 2 Answer in brief (any 2)

1. What is PCR? Write in details steps involved in PCR
2. What is Laminar Air Flow? Write types of LAF and its application
3. Describe viral disease diagnosis?



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Department of Microbiology (2022-2023)

Skill based course (UG)

Become a Microbiology Laboratory Technician

### Result

Sr.No	Name of Student	Result	Grade
1	Barge Sharaddha Dipak	PASS	A
2	Gore Siddhi Suresh	PASS	A
3	Jagdale Nikita Nandkumar	PASS	A
4	Jagtap Kedar Ramesh	PASS	A
5	Kadam Shruti Saudagar	PASS	A
6	Kadam Vivek Pralhad	PASS	A
7	Nikam Prajwal Dattatray	PASS	A
8	Nikam Rushikesh Vikas	PASS	A

*Pranav*

Head

Department of Microbiology

Rayat Shikshan Sanstha's

**D. P. Bhosale College, Koregaon**

**Department of Microbiology (2022-2023)**

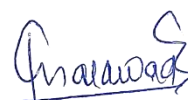
**Skill based course (UG)**

**Become a Microbiology Laboratory Technician**

## **Report**

Technologists in microbiology laboratories analyse and recognize microorganisms like bacteria and viruses. This is an entry-level position for technologists with a bachelor's degree in medicine and technology or biological sciences. Lab Technician & Microbiology Instructor developed the Become a Microbiology Laboratory Technician certification course, which is now available on Udemy for students who want to improve their skills and expertise in the field of medical microbiology to become microbiologists or lab technicians. Become a Microbiology Laboratory Technician online training contains 2 hours of theory and practical based learning resources and designed to provide students with all of the necessary materials and instruction to become microbiology lab technicians. Become a Microbiology Laboratory Technician online classes discusses topics like immune diagnosis, pathogenesis, phenotyping, genotyping, serotyping, staining, cell culture, and antibiotic susceptibility testing as well as teach them the core skills and techniques to diagnose diseases caused by viruses and bacteria.

The 08 students have been participated in the said course with proper knowledge about Basics in Bioinformatics. After completion of the course certificates are offered individually.



Head

Department of Microbiology



Rayat Shikshan Sanstha's

# D. P. Bhosale College, Koregaon

NAAC Re Accredited 'A' (with CGPA 3.12) ISO 9001:2015 Certified

DIST- SATARA, MAHARASHTRA, INDIA - 415501



## DEPARTMENT OF MICROBIOLOGY

SKILL BASED COURSE

*Certificate*

This is to certify that, MR./Miss.....class..... Subject:  
Microbiology Successfully completed One month Skill Based Course on **Become a  
Microbiology Laboratory Technician** Organized by Department of Microbiology, D. P.  
Bhosale College, Koregaon. District- Satara (M.S.) held in January 2023.

**Dr. Mrs. S. P. Nalawade**

Head,

Department of Microbiology

**Prin. Dr. V. S. Sawant**

Principal,

D. P. Bhosale college, Koregaon

Rayat Shikshan Sanstha's  
D. P. Bhosale College, Koregaon  
Department of Microbiology (2022-2023)

**Skill based course (UG)**

**Become a Microbiology Laboratory Technician**

**Attendance sheet (From 02/01/2023 to 31/01/2023)**

Sr. No.	Roll No.	Name of the Student	01/01/23	02/01/23	03/01/23	04/01/23	05/01/23	06/01/23	07/01/23	08/01/23	09/01/23	10/01/23	11/01/23	12/01/23	13/01/23	14/01/23	15/01/23	16/01/23	17/01/23	18/01/23	19/01/23	20/01/23	21/01/23	22/01/23	23/01/23	24/01/23	25/01/23	26/01/23	27/01/23	28/01/23	29/01/23	30/01/23	31/01/23					
			1.	22541	Barge Sharaddha Dipak						P	A																										
2.	22542	Gore Siddhi Suresh						P	P																													
3.	22543	Jagdale Nikita Nandkumar						P	P																													
4.	22544	Jagtap Kedar Ramesh						P	P																													
5.	22545	Kadam Shruti Saudagar						P	P																													
6.	22546	Kadam Vivek Pralhad						P	A																													
7.	22547	Nikam Prajwal Dattatray						P	P																													
8.	22548	Nikam Rushikesh Vikas						P	P																													

*Anand*

**HEAD**

**DEPARTMENT OF MICROBIOL.  
D.P. BHOSALE COLLEGE, KOREGAON**