

**Shri Shivaji Education Society's
Board for Higher Education Vidyanagar Karad.**



YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

DEPARTMENT OF MICROBIOLOGY

SHORT TERM COURSE

Standard operative procedure in Microbiology laboratory

2023-24

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Total Students: 20

Class: B. Sc. II

Duration: 03 Months

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7	Attendance
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YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD.

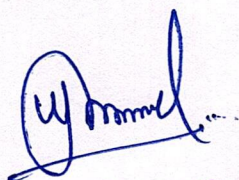
Department of Microbiology

2023-24

Notice

Date: 02/11/2023

All the B. Sc. II students are hereby informed that the Department of Microbiology will run a short-term course entitled **“Standard Operative Procedures in Microbiology Laboratory.”** Interested Candidates enroll your names to **Mr. G M. Shinde** (course coordinator) on or before 28th November 2023.



Course Co-ordinator



Head

Department of Microbiology

DEPARTMENT OF MICROBIOLOGY



Yashwantrao Chavan College of Science, Karad

Department of Microbiology

Course Title: Standard operative procedures in microbiology laboratory.

Course Duration: 12 weeks

Overview:

Microbiology laboratory skill is an essential part of an aspiring career in life science. This program is designed to train the participants in the fundamental techniques of applied microbiology. The major aim of the program is to provide hands-on training to the participants that could boost their confidence in exploring further higher research or analysis in the field of life sciences.

Objective:

1. To provide basic information regarding various parts of commonly used laboratory equipment used in laboratory.
2. To prepare the microbiology student with important techniques used in microbiology laboratory.
3. It highlights the basic laboratory techniques for processing clinical samples.
4. Improve interpersonal and teamwork skills

Unit I

(3 week)

- 1.1 Laboratory equipment
- 1.2 Cleaning & Disinfection
- 1.3 Methods of sterilization
- 1.4 Disposal of waste
- 1.5 Practical demonstration

Unit II

(3 weeks)

- 2.1 Safe laboratory practices
- 2.2 Quality assurance & quality control in laboratory
- 2.3 Staining techniques
- 2.4 Practical demonstration



Unit III

(3 weeks)

- 3.1 Bacteriological media preparation.
- 3.2 Antibiotic susceptibility testing
- 3.3 Bacteriological examination of water
- 3.4 Practical demonstration

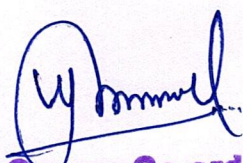
Unit IV

(3 Weeks)

- 4.1 Collection of specimens.
- 4.2 Transportation of specimens.
- 4.3 Processing of clinical specimens.

Outcome of the course

After successful completion of the course students will get overall knowledge about the basic technique used in microbiology laboratory. This will create job opportunity for them in government laboratory as well as in private industries.



Course Co-ordinator



HEAD
DEPARTMENT OF MICROBIOLOGY

YASHWANTRAO CHAVAV COLLEGE OF SCIENCE, KARAD

Department of Microbiology

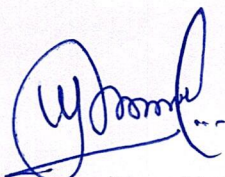
Short Term Course

**“Standard operative procedures in microbiology
laboratory”**

Year 2023 - 2024

Date: 01 /12/2023

All the students who enrolled their names for course of **“Standard operative procedures in microbiology laboratory”** are hereby informed that their theory lecture is going to start from 4st Dec. 2023. All concerned should note and follow.



Course Coordinator
Course Co-ordinator



Head
Department of Microbiology
HEAD
DEPARTMENT OF MICROBIOLOGY

YASHWANTRAO CHAVAV COLLEGE OF SCIENCE, KARAD

Department of Microbiology

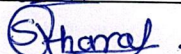
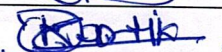
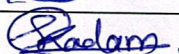
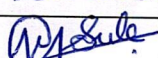
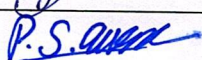
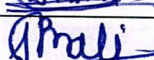
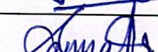
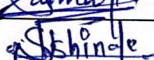
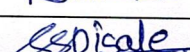
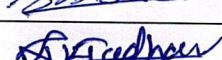
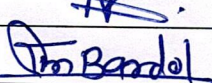
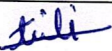
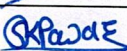
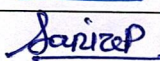
Short Term Course

“Standard operative procedures in microbiology laboratory”

Year 2023 - 2024

Name of the Enrolled Students

Date: 01/12/2023

Roll no.	Name of Students	Signature of student
1099	Patil Samruddhi Sachin	
1136	Gharal Sandhyarani Vitthal	
1137	Ingale Kartik Prasannkumar	
1138	Kadam Sakshi Sanjay	
1144	Sule Vaishnavi Avinash	
1145	Tate Manasvi Raghunath	
1150	Gurav Pratik Sachin	
1152	Jadhav Vishakha Popat	
1156	Mali Sakshi Prakash	
1163	Sonawale Samata Ghanshyam	
1164	Thorat Tejas Raghunath	
1185	Disale Sonali Shashikant	
1187	Jadhav Shivraj Kakasaheb	
1190	Kale Amol Vishwas	
1191	Bardol Tabassum Moula	
1194	Munshi Sufiyan Shakil	
1196	Waikar Shifa Javed	
1209	Pawar Sakshi Kumar	
1214	Patel Saniya Sikandar	
1215	Sankpal Pranali Dipak	


Course Co-ordinator




HEAD
DEPARTMENT OF MICROBIOLOGY

**YASHWANTRAO CHAVAV COLLEGE OF
SCIENCE, KARAD**

Department of Microbiology

Short Term Course

**“Standard operative procedures in microbiology
laboratory”**

Year 2023 - 2024

Theory Time Table

Dec. 2023 to Jan.2024

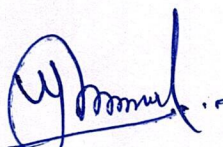
Lect. Time	Monday	Tuesday
9.30- 10.20	G30 (GMS)	G30 (GMS)

Feb. 2024

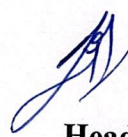
Practical Time Table

Time	Place
Saturday 2.00 – 5.00 pm	Practical Lab no. 3 Department of Microbiology

- 1) G30- Goldan Jubilee Lecture Hall no 30
- 2) All concerned should note and follow.


Course Coordinator
Course Co-ordinator




Head
Department of Microbiology
DEPARTMENT OF MICROBIOLOGY

Yashwantrao Chavan College of Science, Vidyanagar, Karad
DEPARTMENT OF MICROBIOLOGY

ATTENDANCE SHEET of certificate course in Standard operative procedures in microbiology laboratory

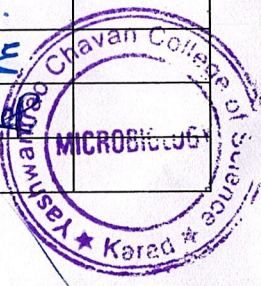
Year: 2023-24

Class: B. Sc. II

Name of the Teacher:

Dept./Sub.

Roll no	Date	04/12/2023	04/12/2023	5/12/2023	5/12/2023	11/12/2023	11/12/2023	12/12/2023	12/12/2023	13/12/23	13/12/23	%
Name of student												
1099	Patil Samruddhi Sachin	Patil	Patil	Patil		Patil	Patil	Patil	Patil	Patil	Patil	
1136	Gharal Sandhyarani Vitthal	Tharal	Tharal	Tharal	Tharal	Tharal		Tharal	Tharal	Tharal	Tharal	
1137	Ingale Kartik Prasannkumar	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik		Kartik	Kartik	
1138	Kadam Sakshi Sanjay	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam		Kadam	
1144	Sule Vaishnavi Avinash	W. Sule	W. Sule	W. Sule	W. Sule	W. Sule	W. Sule	W. Sule	W. Sule	W. Sule	W. Sule	
1145	Tate Manasvi Raghunath	Tate	Tate	Tate		Tate	Tate	Tate	Tate	Tate	Tate	
1150	Gurav Pratik Sachin	P.S. Gurav	P.S. Gurav	P.S. Gurav	P.S. Gurav	P.S. Gurav		P.S. Gurav	P.S. Gurav	P.S. Gurav	P.S. Gurav	
1152	Jadhav Vishakha Popat	Vadhar	Vadhar	Vadhar		Vadhar	Vadhar	Vadhar	Vadhar	Vadhar	Vadhar	Vadhar
1156	Mali Sakshi Prakash	Mali	Mali	Mali	Mali	Mali	Mali	Mali	Mali	Mali	Mali	
1163	Sonawale Samata Ghanshyam	Sonawale	Sonawale	Sonawale	Sonawale	Sonawale	Sonawale	Sonawale	Sonawale	Sonawale	Sonawale	Sonawale
1164	Thorat Tejas Raghunath	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	
1185	Disale Sonali Shashikant	Disale	Disale	Disale	Disale	Disale	Disale	Disale	Disale	Disale	Disale	Disale
1187	Jadhav Shivraj Kakasaheb	Jadhav	Jadhav		Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	
1190	Kale Amol Vishwas	Kale		Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	
1191	Bardol Tabassum Moula	Bardol	Bardol	Bardol	Bardol	Bardol	Bardol		Bardol	Bardol	Bardol	
1194	Munshi Sufiyan Shakil	Munshi	Munshi	Munshi		Munshi	Munshi	Munshi	Munshi	Munshi	Munshi	
1196	Waikar Shifa Javed	Waikar		Waikar	Waikar	Waikar		Waikar	Waikar	Waikar	Waikar	
1209	Pawar Sakshi Kumar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	
1214	Patel Saniya Sikandar	Patel	Patel	Patel	Patel	Patel	Patel	Patel	Patel	Patel	Patel	
1215	Sankpal Pranali Dipak	Sankpal	Sankpal	Sankpal	Sankpal	Sankpal	Sankpal	Sankpal	Sankpal	Sankpal	Sankpal	



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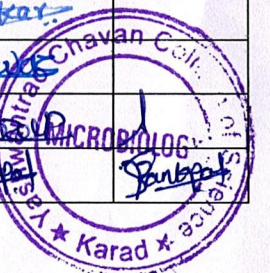
Year: 2023-24

Class: B. Sc. II

Name of the Teacher:

Dept./Sub.

Roll no	Date	19/12/23	19/12/23	26/12/23	26/12/23	01/01/24	01/01/24	02/01/24	02/01/24	08/01/24	08/01/24	%
Name of student												
1099	Patil Samruddhi Sachin	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	
1136	Gharal Sandhyarani Vitthal	Sherral	Sherral	Sherral	Sherral	Sherral	Sherral	Sherral	Sherral	Sherral	Sherral	
1137	Ingale Kartik Prasannkumar	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	
1138	Kadam Sakshi Sanjay	Sadom	Sadom	Sadom	Sadom	Sadom	Sadom	Sadom	Sadom	Sadom	Sadom	
1144	Sule Vaishnavi Avinash	W/Sule	W/Sule	W/Sule	W/Sule	W/Sule	W/Sule	W/Sule	W/Sule	W/Sule	W/Sule	
1145	Tate Manasvi Raghunath	Tate	Tate	Tate	Tate	Tate	Tate	Tate	Tate	Tate	Tate	
1150	Gurav Pratik Sachin	P.S. Gurav	P.S. Gurav	P.S. Gurav	P.S. Gurav	P.S. Gurav	P.S. Gurav	P.S. Gurav	P.S. Gurav	P.S. Gurav	P.S. Gurav	
1152	Jadhav Vishakha Popat	Badhar	Badhar	Badhar	Badhar	Badhar	Badhar	Badhar	Badhar	Badhar	Badhar	
1156	Mali Sakshi Prakash	Mali	Mali	Mali	Mali	Mali	Mali	Mali	Mali	Mali	Mali	
1163	Sonawale Samata Ghanshyam	Samata	Samata	Samata	Samata	Samata	Samata	Samata	Samata	Samata	Samata	
1164	Thorat Tejas Raghunath	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	
1185	Disale Sonali Shashikant	Disale	Disale	Disale	Disale	Disale	Disale	Disale	Disale	Disale	Disale	
1187	Jadhav Shivraj Kakasaheb	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	
1190	Kale Amol Vishwas	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK	
1191	Bardol Tabassum Moula	Tabardol	Tabardol	Tabardol	Tabardol	Tabardol	Tabardol	Tabardol	Tabardol	Tabardol	Tabardol	
1194	Munshi Sufiyan Shakil	Shakil	Shakil	Shakil	Shakil	Shakil	Shakil	Shakil	Shakil	Shakil	Shakil	
1196	Waikar Shifa Javed	Waikar	Waikar	Waikar	Waikar	Waikar	Waikar	Waikar	Waikar	Waikar	Waikar	
1209	Pawar Sakshi Kumar	SPawar	SPawar	SPawar	SPawar	SPawar	SPawar	SPawar	SPawar	SPawar	SPawar	
1214	Patel Saniya Sikandar	Sanirap	Sanirap	Sanirap	Sanirap	Sanirap	Sanirap	Sanirap	Sanirap	Sanirap	Sanirap	
1215	Sankpal Pranali Dipak	Sankpal	Sankpal	Sankpal	Sankpal	Sankpal	Sankpal	Sankpal	Sankpal	Sankpal	Sankpal	



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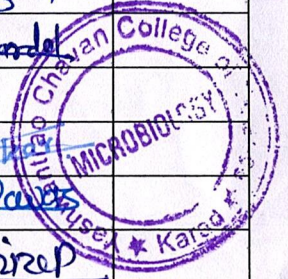
Year: 2023-24

Class: B. Sc. II

Name of the Teacher:

Dept./Sub.

Roll no	Date	09/01/24	09/01/24	15/01/24	15/01/24	16/01/24	16/01/24	22/01/24	22/01/24	23/01/24	23/01/24	%
Name of student												
1099	Patil Samruddhi Sachin	<u>Sachin</u>	<u>Sachin</u>	<u>Sachin</u>	<u>Sachin</u>	<u>Sachin</u>	<u>Sachin</u>		<u>Sachin</u>	<u>Sachin</u>	<u>Sachin</u>	
1136	Gharal Sandhyarani Vitthal	<u>Ethorai</u>	<u>Ethorai</u>	<u>Ethorai</u>	<u>Ethorai</u>		<u>Ethorai</u>	<u>Ethorai</u>	<u>Ethorai</u>	<u>Ethorai</u>	<u>Ethorai</u>	
1137	Ingale Kartik Prasannkumar	<u>Kartik</u>	<u>Kartik</u>	<u>Kartik</u>	<u>Kartik</u>	<u>Kartik</u>	<u>Kartik</u>	<u>Kartik</u>		<u>Kartik</u>	<u>Kartik</u>	
1138	Kadam Sakshi Sanjay	<u>Sadham</u>	<u>Sadham</u>	<u>Sadham</u>	<u>Sadham</u>		<u>Sadham</u>	<u>Sadham</u>	<u>Sadham</u>	<u>Sadham</u>	<u>Sadham</u>	
1144	Sule Vaishnavi Avinash	<u>V/Sule</u>	<u>V/Sule</u>	<u>V/Sule</u>	<u>V/Sule</u>		<u>V/Sule</u>	<u>V/Sule</u>	<u>V/Sule</u>	<u>V/Sule</u>	<u>V/Sule</u>	
1145	Tate Manasvi Raghunath	<u>Tate</u>	<u>Tate</u>		<u>Tate</u>	<u>Tate</u>	<u>Tate</u>	<u>Tate</u>	<u>Tate</u>	<u>Tate</u>	<u>Tate</u>	
1150	Gurav Pratik Sachin	<u>P.S. Gurav</u>	<u>P.S. Gurav</u>	<u>P.S. Gurav</u>	<u>P.S. Gurav</u>	<u>P.S. Gurav</u>		<u>P.S. Gurav</u>	<u>P.S. Gurav</u>	<u>P.S. Gurav</u>	<u>P.S. Gurav</u>	
1152	Jadhav Vishakha Popat	<u>Vadha</u>	<u>Vadha</u>	<u>Vadha</u>	<u>Vadha</u>	<u>Vadha</u>		<u>Vadha</u>	<u>Vadha</u>	<u>Vadha</u>	<u>Vadha</u>	
1156	Mali Sakshi Prakash	<u>Mali</u>	<u>Mali</u>		<u>Mali</u>	<u>Mali</u>	<u>Mali</u>	<u>Mali</u>	<u>Mali</u>	<u>Mali</u>	<u>Mali</u>	<u>Mali</u>
1163	Sonawale Samata Ghanshyam	<u>Samata</u>	<u>Samata</u>	<u>Samata</u>	<u>Samata</u>	<u>Samata</u>	<u>Samata</u>	<u>Samata</u>	<u>Samata</u>	<u>Samata</u>	<u>Samata</u>	<u>Samata</u>
1164	Thorat Tejas Raghunath	<u>Tejas</u>	<u>Tejas</u>	<u>Tejas</u>		<u>Tejas</u>	<u>Tejas</u>	<u>Tejas</u>	<u>Tejas</u>	<u>Tejas</u>	<u>Tejas</u>	
1185	Disale Sonali Shashikant	<u>SSDisale</u>	<u>SSDisale</u>	<u>SSDisale</u>	<u>SSDisale</u>	<u>SSDisale</u>		<u>SSDisale</u>	<u>SSDisale</u>	<u>SSDisale</u>	<u>SSDisale</u>	<u>SSDisale</u>
1187	Jadhav Shivraj Kakasaheb	<u>Shivraj</u>	<u>Shivraj</u>	<u>Shivraj</u>	<u>Shivraj</u>	<u>Shivraj</u>		<u>Shivraj</u>	<u>Shivraj</u>	<u>Shivraj</u>	<u>Shivraj</u>	
1190	Kale Amol Vishwas	<u>Amol</u>	<u>Amol</u>	<u>Amol</u>	<u>Amol</u>	<u>Amol</u>	<u>Amol</u>	<u>Amol</u>	<u>Amol</u>		<u>Amol</u>	
1191	Bardol Tabassum Moula	<u>Tabassum</u>	<u>Tabassum</u>		<u>Tabassum</u>	<u>Tabassum</u>	<u>Tabassum</u>	<u>Tabassum</u>	<u>Tabassum</u>	<u>Tabassum</u>	<u>Tabassum</u>	
1194	Munshi Sufiyan Shakil	<u>Shakil</u>	<u>Shakil</u>	<u>Shakil</u>	<u>Shakil</u>	<u>Shakil</u>	<u>Shakil</u>	<u>Shakil</u>	<u>Shakil</u>	<u>Shakil</u>	<u>Shakil</u>	
1196	Waikar Shifa Javed		<u>Waikar</u>	<u>Waikar</u>	<u>Waikar</u>	<u>Waikar</u>	<u>Waikar</u>		<u>Waikar</u>	<u>Waikar</u>	<u>Waikar</u>	
1209	Pawar Sakshi Kumar	<u>SkPawar</u>	<u>SkPawar</u>	<u>SkPawar</u>	<u>SkPawar</u>	<u>SkPawar</u>	<u>SkPawar</u>	<u>SkPawar</u>	<u>SkPawar</u>	<u>SkPawar</u>	<u>SkPawar</u>	
1214	Patel Saniya Sikandar	<u>Saniya</u>	<u>Saniya</u>	<u>Saniya</u>	<u>Saniya</u>	<u>Saniya</u>	<u>Saniya</u>	<u>Saniya</u>	<u>Saniya</u>	<u>Saniya</u>	<u>Saniya</u>	
1215	Sankpal Pranali Dipak	<u>Pranali</u>	<u>Pranali</u>	<u>Pranali</u>	<u>Pranali</u>	<u>Pranali</u>		<u>Pranali</u>	<u>Pranali</u>	<u>Pranali</u>	<u>Pranali</u>	



Yashwantrao Chavan College of Science, Vidyanagar, Karad
DEPARTMENT OF MICROBIOLOGY

ATTENDANCE SHEET of certificate course in Standard operative procedures in microbiology laboratory

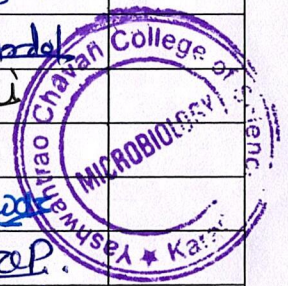
Year: 2023-24

Class: B. Sc. II

Name of the Teacher:

Dept./Sub.

Roll no	Date	29/01/24	29/01/24	29/01/24	30/01/24	30/01/24	30/01/24	03/02/24	03/02/24	03/02/24	03/02/24	%
Name of student												
1099	Patil Samruddhi Sachin	Sachin	Sachin		Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	
1136	Gharal Sandhyarani Vitthal	Sandhya	Sandhya	Sandhya	Sandhya	Sandhya	Sandhya	Sandhya		Sandhya	Sandhya	
1137	Ingale Kartik Prasannkumar	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik		Kartik	
1138	Kadam Sakshi Sanjay	Sakshi	Sakshi		Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	
1144	Sule Vaishnavi Avinash	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi		Vaishnavi	Vaishnavi	
1145	Tate Manasvi Raghunath	Manasvi	Manasvi		Manasvi	Manasvi	Manasvi	Manasvi	Manasvi	Manasvi	Manasvi	
1150	Gurav Pratik Sachin	P.S. Gurav	P.S. Gurav	P.S. Gurav	P.S. Gurav	P.S. Gurav	P.S. Gurav	P.S. Gurav	P.S. Gurav		P.S. Gurav	
1152	Jadhav Vishakha Popat	Vishakha		Vishakha	Vishakha	Vishakha	Vishakha	Vishakha	Vishakha	Vishakha	Vishakha	
1156	Mali Sakshi Prakash	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi		Sakshi	Sakshi	Sakshi	Sakshi	
1163	Sonawale Samata Ghanshyam	Samata	Samata	Samata	Samata	Samata	Samata	Samata	Samata	Samata	Samata	
1164	Thorat Tejas Raghunath	Tejas	Tejas	Tejas		Tejas	Tejas	Tejas	Tejas	Tejas	Tejas	
1185	Disale Sonali Shashikant	Sonali	Sonali	Sonali	Sonali	Sonali	Sonali	Sonali	Sonali	Sonali	Sonali	
1187	Jadhav Shivraj Kakasaheb	Shivraj	Shivraj	Shivraj	Shivraj	Shivraj	Shivraj	Shivraj		Shivraj	Shivraj	
1190	Kale Amol Vishwas		Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	
1191	Bardol Tabassum Moula	Tabassum	Tabassum	Tabassum		Tabassum	Tabassum	Tabassum	Tabassum	Tabassum	Tabassum	
1194	Munshi Sufiyan Shakil	Shakil	Shakil	Shakil	Shakil		Shakil	Shakil	Shakil	Shakil	Shakil	
1196	Waikar Shifa Javed	Shifa	Shifa	Shifa	Shifa	Shifa	Shifa	Shifa	Shifa	Shifa		
1209	Pawar Sakshi Kumar	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	
1214	Patel Saniya Sikandar	Saniya	Saniya	Saniya	Saniya	Saniya	Saniya	Saniya	Saniya	Saniya	Saniya	
1215	Sankpal Pranali Dipak	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali		Pranali	



Yashwantrao Chavan College of Science, Vidyanagar, Karad
DEPARTMENT OF MICROBIOLOGY

ATTENDANCE SHEET of certificate course in Standard operative procedures in microbiology laboratory

Year: 2023-24

Class: B. Sc. II

Name of the Teacher:

Dept./Sub.

[illegible]

Yashwantrao Chavan College of Science, Vidyanagar, Karad
DEPARTMENT OF MICROBIOLOGY

ATTENDANCE SHEET of certificate course in Standard operative procedures in microbiology laboratory

Year: 2023-24

Class: B. Sc. II

Name of the Teacher:

Dept./Sub.

[illegible]

Yashwantrao Chavan College of Science, Vidyanagar, Karad
DEPARTMENT OF MICROBIOLOGY

ATTENDANCE SHEET of certificate course in Standard operative procedures in microbiology laboratory

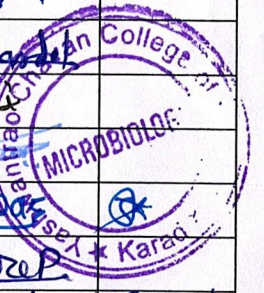
Year: 2023-24

Class: B. Sc. II

Name of the Teacher:

Dept./Sub.

Roll no	Date	04/03/24	02/03/24	04/03/24	04/03/24	04/03/24	04/03/24	05/03/24	05/03/24	05/03/24	09/03/24	%
Name of student												
1099	Patil Samruddhi Sachin	Sachin		Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	
1136	Gharal Sandhyarani Vitthal	Sandhya	Sandhya	Sandhya	Sandhya	Sandhya		Sandhya	Sandhya	Sandhya	Sandhya	
1137	Ingale Kartik Prasannkumar	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik		Kartik	
1138	Kadam Sakshi Sanjay	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	
1144	Sule Vaishnavi Avinash	Vaishnavi		Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi
1145	Tate Manasvi Raghunath	Manasvi	Manasvi	Manasvi		Manasvi	Manasvi	Manasvi	Manasvi	Manasvi	Manasvi	
1150	Gurav Pratik Sachin	Pratik	Pratik	Pratik	Pratik	Pratik		Pratik	Pratik	Pratik	Pratik	
1152	Jadhav Vishakha Popat											
1156	Mali Sakshi Prakash	Sakshi	Sakshi	Sakshi	Sakshi		Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi
1163	Sonawale Samata Ghanshyam	Samata	Samata	Samata	Samata	Samata	Samata	Samata	Samata	Samata	Samata	Samata
1164	Thorat Tejas Raghunath	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas		Tejas	Tejas	
1185	Disale Sonali Shashikant	Sonali	Sonali	Sonali	Sonali	Sonali	Sonali		Sonali	Sonali	Sonali	
1187	Jadhav Shivraj Kakasaheb	Shivraj	Shivraj	Shivraj	Shivraj	Shivraj	Shivraj	Shivraj		Shivraj	Shivraj	
1190	Kale Amol Vishwas		Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	Amol	
1191	Bardol Tabassum Moula	Tabassum	Tabassum	Tabassum	Tabassum	Tabassum		Tabassum	Tabassum	Tabassum	Tabassum	
1194	Munshi Sufiyan Shakil	Shakil	Shakil	Shakil	Shakil	Shakil	Shakil		Shakil	Shakil	Shakil	
1196	Waikar Shifa Javed		Shifa	Shifa	Shifa	Shifa	Shifa	Shifa	Shifa	Shifa	Shifa	
1209	Pawar Sakshi Kumar	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	
1214	Patel Saniya Sikandar	Saniya	Saniya	Saniya	Saniya	Saniya	Saniya	Saniya	Saniya	Saniya	Saniya	
1215	Sankpal Pranali Dipak	Pranali	Pranali	Pranali	Pranali	Pranali		Pranali	Pranali	Pranali	Pranali	Pranali



**YASHWANTRAO CHAVAN COLLEGE OF
SCIENCE, KARAD**

Department of Microbiology

Short Term Course

**“Standard operative procedures in microbiology
laboratory”**

Year 2023 – 2024

Date: 04/03/2024

All the enrolled students of the short-term course on **“Standard operative procedures in microbiology laboratory”** are inform that as per discussed question paper patterns the practical and theory examination timetable is as follows:

Practical : 11/03/2024 : 08.00 am to 11.30 am

Theory : 18/03/2024 : 09.30 am to 10.30 am

All students should note and follow.


Course Coordinator
Course Co-ordinator




Head
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DEPARTMENT OF MICROBIOLOGY
Department of Microbiology

Yashwantrao Chavan College of Science, Karad
Department of Microbiology

2022-23

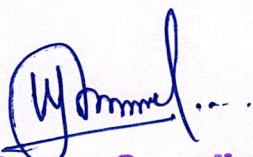
Paper: Standard operative procedures in Microbiology laboratory.

Day and Date – Monday 11/03/2024

Total marks- 60

Time 08:00 a.m. to 11:30 a.m.

- | | |
|---|----|
| 1. To perform the antibiotic susceptibility test of clinically isolated bacteria against given antibiotics. | 30 |
| 2. Study the Most Probable Number of Bacteria in given water sample by suitable method. | 20 |
| 3. Viva-voce | 10 |



Course Co-ordinator



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DEPARTMENT OF MICROBIOLOGY



Yashwantrao Chavan College of Science, Karad
Department of Microbiology
2022-23

Paper: Standard operative procedures in Microbiology laboratory.

Day and Date – Monday 18/03/2024

Total marks- 40

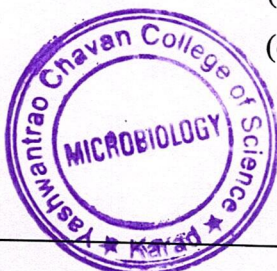
Time 09:30 a.m. to 10:30 a.m.

1. Hematoxylin is commonly used to stain the _____.
(a) Nucleus (c) Cell wall
(b) Spores (d) None
2. Sanitizing means killing of _____% of microorganisms on a surface or equipment.
(a) 100 (c) 90
(b) 00 (d) 99.9
3. Disinfection is the process of destruction of
(a) Pathogenic bacteria (c) Bacteria & Spores
(b) Spores (d) None
4. Autoclaving is NOT used for sterilization of
(a) Culture media (c) Cotton
(b) Paraffin (d) Rubber gloves
5. The most frequently laboratory acquired infections is
(a) Tuberculosis (c) Hepatitis
(b) Enterococci (d) None of the above
6. Sterilization hold time at 160° C for hot air oven is
(a) 60 minutes (c) 20 minutes
(b) 40 minutes (d) None
7. Quality control surveillance schedule for incubator is monitored
(a) Daily (c) Monthly
(b) Weekly (d) With each use
8. Rejection criteria for collection of specimens are
(a) Information on label inadequate (c) Specimen dried up
(b) Transported at improper temperature (d) All of the above
9. Which one of the following hospital waste is collected in BLUE bag.
(a) Human anatomical waste (c) Needles, syringes
(b) Animal waste (d) Food, fruits, vegetables
10. In Kirby Bauer method for antimicrobial susceptibility testing, plates are



- inoculated by
- (a) Pour plate method (c) Both
(b) Swab method (d) None
11. Significant bacteriuria means
- (a) 10² org./ml (c) 10⁴ org./ml
(b) 10³ org./ml (d) 10⁵ org./ml
12. Mac Conkey agar is
- (a) Simple media (c) Selective media
(b) Enriched media (d) Transport media
13. Sabourauds dextrose agar is used for culture of
- (a) Bacteria (c) Fungi
(b) Viruses (d) Parasites
14. Transportation of stool specimen for *Vibrio cholerae* may be done in
- (a) Pike's media (c) 10% formalin
(b) Alkaline peptone water (d) Amies media
15. For diagnosis of *Enterobius vermicularis* (pin worm), sample is collected from
- (a) Stool (c) Blood
(b) Urine (d) Folds of skin around anus
16. Albert stain is used to demonstrate
- (a) Tubercle bacilli (c) Enterococci
(b) *Corynebacterium diphtheriae* (d) Pneumococci
17. For diagnosis of tuberculosis number of sputum samples examined are
- (a) Morning (c) Morning, Spot
(b) Spot (d) Spot, Morning, Spot
18. HIV-1 & 2 are transmitted by
- (a) Heterosexual /homosexual contact (c) Vertical transmission
(b) Blood and blood products (d) All of the above
19. Incubation in an atmosphere with 5-10% CO₂ can be done in
- (a) Air tight jar (c) Incubator
(b) Candle jar (d) None of the above
20. *Mycobacterium leprae* are stained by
- (a) Grams stain (c) Modified ZN stain
(b) ZN stain (d) Albert stain


Course Co-ordinator




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DEPARTMENT OF MICROBIOLOGY

YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

Department of Microbiology

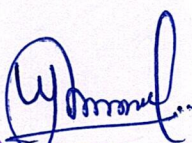
Short Term Course

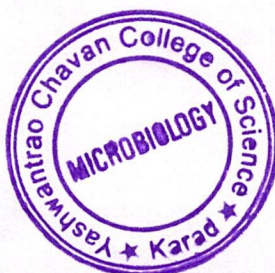
“Standard operative procedures in microbiology laboratory”

Year 2023- 2024

Result

Roll no.	Name of Students	Marks Obtained in Theory out of 40	Marks Obtained in Practical out of 60	Percentage
1099	Patil Samruddhi Sachin	38	55	93
1136	Gharal Sandhyarani Vitthal	40	58	98
1137	Ingale Kartik Prasannkumar	36	55	91
1138	Kadam Sakshi Sanjay	40	58	98
1144	Sule Vaishnavi Avinash	40	57	97
1145	Tate Manasvi Raghunath	40	58	98
1150	Gurav Pratik Sachin	36	54	90
1152	Jadhav Vishakha Popat	40	55	95
1156	Mali Sakshi Prakash	40	58	98
1163	Sonawale Samata Ghanshyam	38	54	92
1164	Thorat Tejas Raghunath	38	54	92
1185	Disale Sonali Shashikant	40	58	98
1187	Jadhav Shivraj Kakasaheb	36	53	89
1190	Kale Amol Vishwas	36	54	90
1191	Bardol Tabassum Moula	38	58	96
1194	Munshi Sufiyan Shakil	38	57	95
1196	Waikar Shifa Javed	40	59	99
1209	Pawar Sakshi Kumar	40	58	98
1214	Patel Saniya Sikandar	40	57	97
1215	Sankpal Pranali Dipak	40	58	98


Course Co-ordinator




HEAD
DEPARTMENT OF MICROBIOLOGY

Yashwantrao Chavan College of Science, Karad

Department of Microbiology

Certificate Course – Standard operative procedures in Microbiology laboratory (2023-24)

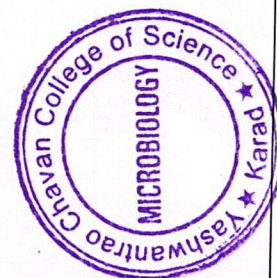
CO & PO attainment

Average Attainment	Target Attainment level	Remark
3.0	Level 5	Target achieved

Course code	Course Title	% of students above 60 % for practical examination	Level of attainment for practical exam	% of students above 80 % for theory examination	Level of attainment	Attainment of course (Theory & Practical)
Certificate Course	Standard operative procedures in microbiology laboratory	100	3	100	3.0	3

By using below attainment levels 1,2,3 for the Percent of students in B	
For internal exam	
Level 1	Less than 60% of students scoring more than average marks
Level 2	60% - 80% of students scoring more than average marks
Level 3	more than equal to 80% of students scoring more than average marks

Programme outcome level	Target Attainment
Level 1	0.5-1.0
Level 2	1.0-1.5
Level 3	1.5-2.0
Level 4	2.0-2.5
Level 5	2.5-3.0



YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

Department of Microbiology

Short Term Course

“Standard operative procedures in microbiology laboratory”

Year 2022- 2023

Feedback form

Sr. No.	Criteria	Excellent	Good	Average	Poor
1.	Curriculum Content				
2.	Gratification about Lecture				
3.	Gratification about practical				
4.	Hands-on Training				
5.	Knowledge from the course				
6.	The course is beneficial for Students and Parents				

Name of the Student:

Class:

Signature:



**YASHWANTRAO CHAVAN COLLEGE OF SCIENCE,
KARAD**

Department of Microbiology

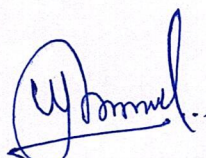
Short Term Course

“Standard operative procedures in microbiology laboratory”

Year 2023- 2024

REPORT

Name of the Course	“Standard operative procedures in microbiology laboratory”
Class	B.Sc. II
Date	2023-24
Name of the department:	Microbiology
Program type	Short Term Course
No. of Students Enrolled	20
No. of Students Successfully completed the course	20
Passing Percentage	100
Program outcomes	1. Students will get overall knowledge about the basic technique used in microbiology laboratory. 2. Hands on different instruments used in microbiology laboratory. 3. Improve students skill for interactive and teamwork skills 4. This will create career opportunity for students in government laboratory as well as in private industries.


Course Coordinator
Course Co-ordinator




Head
Department of Microbiology
HEAD
DEPARTMENT OF MICROBIOLOGY

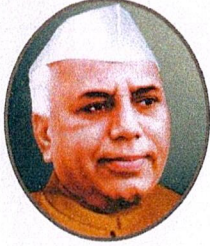
Estd.:

1958

|| Be one with the downtrodden and the underprivileged ||

Shri Shivaji Education Society, Vidyanagar, Karad
Board for Higher Education's, Vidyanagar Karad's

Yashwantrao Chavan College of Science, Karad



• Vidyanagar, Karad - 415 124. •

• Reaccredited B++ Level by NAAC, Bangalore.

• An ISO 9001 : 2015 Certified College



Short Term Course Certificate of Completion

This is to certify that Mr./Miss. Munshi Sufiyan Shaki
of Class B.Sc II has Completed Short Term Course (3 Months) in Standard
operative procedures in Microbiology laboratory. conducted by the department of
Microbiology during the academic year 2023 - 2024

Course Co-ordinator

Head of the Department

IQAC Co-ordinator

Principal

Estd.:

1958

|| Be one with the downtrodden and the underprivileged ||

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Board for Higher Education's, Vidyanagar Karad's

Yashwantrao Chavan College of Science, Karad



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- An ISO 9001 : 2015 Certified College



Short Term Course Certificate of Completion

This is to certify that Mr./Miss. Tate Manasvi Raghunath
of Class B.Sc II has Completed Short Term Course (3 Months) in Standard
operative procedures in Microbiology laboratory. conducted by the department of
Microbiology during the academic year 2023 - 2024

Course Co-ordinator

Head of the Department

IQAC Co-ordinator

Principal

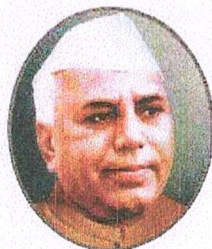
Estd.:

1958

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Board for Higher Education's, Vidyanagar Karad's

Yashwantrao Chavan College of Science, Karad



- Vidyanagar, Karad - 415 124.
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- An ISO 9001 : 2015 Certified College



Short Term Course Certificate of Completion

This is to certify that Mr./Miss. Gurav Pratik Sachin

of Class B.Sc. II has Completed Short Term Course (3 Months) in Standard
operative procedures in Microbiology laboratory conducted by the department of
Microbiology during the academic year 2023 - 2024

Course Co-ordinator

Head of the Department

IQAC Co-ordinator

Principal

Estd.:

1958

|| Be one with the downtrodden and the underprivileged ||

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Short Term Course Certificate of Completion

This is to certify that Mr./Miss. Jadhav Vishakha Popat
of Class B. SC. II has Completed Short Term Course (3 Months) in Standard
operative procedures in Microbiology laboratory conducted by the department of
Microbiology during the academic year 2023 - 2024

Course Co-ordinator

Head of the Department

IQAC Co-ordinator

Principal

Estd.:

1958

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Yashwantrao Chavan College of Science, Karad



- Vidyanagar, Karad - 415 124.
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- An ISO 9001 : 2015 Certified College



Short Term Course Certificate of Completion

This is to certify that Mr./Miss. Pawar Sakshi Kumar
of Class B. SC. II has Completed Short Term Course (3 Months) in Standard
operative procedure in Microbiology laboratory conducted by the department of
Microbiology during the academic year 2023-2024

Course Co-ordinator

Head of the Department

IQAC Co-ordinator

Principal