



**Shiv Chhatrapati Shikshan Sanstha's**  
**Rajarshi Shahu Mahavidyalaya (Autonomous), Latur**  
**Department of Biotechnology**

**A) Summary Report**

1) Title of Programme:	Hands on Training on Basic and Advance Microbiological Techniques.			
2) Name of Organizing Department/Unit:	Biotechnology			
3) Name of the Coordinator(s)/ Convener(s)/ Organizer(s) of the Programme:	<b>Chair Person:</b> Dr. Mahadev Gavhane (Principal) <b>Joint-Organizer(s):</b> Prof. S. N. Shinde (Vice-Principal) <b>HOD</b> Dr. S. S. Kulkarni <b>Convener</b> Mr. S. D. Kadam			
4) Date(s) of the Programme:	19 July to 21 July 2022			
5) Venue/ Mode:	Offline at Department of Biotechnology			
6) Target Group:	UG TY Biotechnology			
7) Number of Participants: 50		<b>Male</b>	<b>Female</b>	<b>Total</b>
A separate list with signatures be maintained in the department/Unit)	Teaching	00	00	00
	Non- Teaching	00	00	00
	Students	23	27	50
8) Name(s) and details of Resource Person(s), if any:	<b>Resource Person</b> 1) Dr. S. R. Surwase (Assistant Professor, RSML) 2) Mr. K. R. Gaikwad (Assistant Professor, RSML) 3) Mr. S.M.Bansode (Assistant Professor, RSML) 4) Ms.S.G.Swami (Assistant Professor, RSML)			
9) Total Expenditure for the Programme:	NIL			
10) Source of Funding:	Not applicable			

## B) Report

### I. Title:

Hands on Training on Basic and Applied Microbiological Techniques.

### II. Introduction:

Microbiological techniques are used to studying microbes like bacteria, fungi, algae and protozoa. Microbes have extreme importance in our day today lives. They have both positive as well as negative effects. So, in order to study the microorganisms a Hands-on Training on Basic and Applied Microbiological Techniques was organized for UG TY students, as they were lacking practical skills due to COVID-19 Pandemic Situation. This training programme includes knowledge about laboratory rules; Pure Culture Techniques, Anti-Microbial Susceptibility and Minimum Inhibitory Concentration, and understanding the basic operating protocols of instrumentation facilities available at department. This Program was organized on dated 19<sup>th</sup> to 21<sup>st</sup> July 2022.

### III. Objectives of the Programme/ issues addressed

- Students will be able to get knowledge and hands on experience of general microbiological concepts like staining, enrichment and isolation of microbes.
- Students will be able to relate their knowledge of traditional microbiological techniques during their research work for control of microorganisms
- To promote the interdisciplinary research in the college/ institute

### iv. Details of Participants

50 participants (23 Male and 27 female) attended the programme.

### v. Brief Summary of Events/ Sessions:

Hands on Training Programme on Basic and Applied Microbiological Techniques is organized on dated 19 July to 21 July. Firstly, Dr. S. S. Kulkarni introduced department, departmental activity and planning of the year for student progression. After the inauguration program students were divided into five batches and each resource person lead the batch for next three days. The students gain good knowledge and hands on which were missed due to COVID 19 situation. Finally, on last day students feedback and question answering session was conducted.

### vi. Conclusion, with feedback on the programme: -

Students thoroughly enjoyed this training programme. The students got knowledge about different microbiological techniques used in prevention and control of microorganisms. After the training programme students, will able to use these skills during their project work.

### vii. Appendix: - List of participants.

Date: 22/07/ 2022

  
HoD/ Convener

Department of Biotechnology  
Rajarshi Shahu Mahavidyalaya  
(Autonomous) Latur-413 531



  
Principal  
PRINCIPAL  
Rajarshi Shahu Mahavidyalaya, Latur  
(Autonomous)



### C) Geotagged Photographs / Screenshots:



**Innoguration Session of Three days Hands on Training program on Basics and advanced Microbiological Technique.**



**D) Boucher of the Programme: -**



The poster features a teal background with a network of white circles and lines, resembling a molecular or biological structure. At the top center is a small logo of a flame with the text 'SHIV CHHATRAPATI SHIKSHAN SANSTHA' and 'WISDOM - VISION' below it. The main text is centered and reads: 'Shiv Chhatrapati Shikshan Sanstha's', 'Rajarshi Shahu Mahavidyalaya (Autonomous), Latur', 'Department of Biotechnology', 'Organizes', 'Hands on Training on Basic and Advance Microbiological Techniques.' Below this, the roles and names of the organizers are listed in two columns. On the left, under 'Chief Organizer:' is 'Dr. Mahadev Gavhane (Principal)'; under 'Joint-Organizer(s):' is 'Prof. S. N. Shinde (Vice-Principal)'; under 'MOD' is 'Dr.S.S.Kulkarni'; and under 'Convener:' is 'Mr. S. D. Kadam'. On the right, under 'Resource Person' is a list of four names: 'Dr. S. R. Surwase', 'Mr. K. R. Gaikwad', 'Mr. S.M.Bansode', and 'Ms.S.G.Swami'. At the bottom left, the date is given as 'Date:- 19/07/2022 to 21/07/2022'.

Shiv Chhatrapati Shikshan Sanstha's  
Rajarshi Shahu Mahavidyalaya (Autonomous), Latur  
Department of Biotechnology

**Organizes**

**Hands on Training on Basic and Advance Microbiological Techniques.**

**Chief Organizer:**  
Dr. Mahadev Gavhane (Principal)

**Joint-Organizer(s):**  
Prof. S. N. Shinde (Vice-Principal)

**MOD**  
Dr.S.S.Kulkarni

**Convener:**  
Mr. S. D. Kadam

**Resource Person**

- Dr. S. R. Surwase
- Mr. K. R. Gaikwad
- Mr. S.M.Bansode
- Ms.S.G.Swami

**Date:-** 19/07/2022 to 21/07/2022

**E) Any Other Appendix: -**

<p align="center"><b>Schedule for Hands on Training programme on Basic and Advanced Microbiological Techniques</b></p>
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Sr.No.	Date	Time	Practical	Name
1	19/07/2022	9:00 AM to 12:00 Noon	Introduction, Laboratory safety rules and autoclaving	Mr.S.D.Kadam(Batch A) Dr. S. R. Surwase (Batch B) Mr. K. R. Gaikwad (Batch C) Mr. S.M.Bansode (Batch D) Ms.S.G.Swami (Batch E)
2		12:00 to 1:00 PM	Lunch Break	
3		1:00 to 5:00 PM	Pure Culture Techniques	Mr.S.D.Kadam(Batch A) Dr. S. R. Surwase (Batch B) Mr. K. R. Gaikwad (Batch C) Mr. S.M.Bansode (Batch D) Ms.S.G.Swami (Batch E)
4	20/07/2022	9:00 AM to 12:00 Noon	Morphological and Biochemical Test for identification of bacteria Preparation for antimicrobial activity Principal of instrumentation used during microbiological practical.	Mr.S.D.Kadam(Batch A) Dr. S. R. Surwase (Batch B) Mr. K. R. Gaikwad (Batch C) Mr. S.M.Bansode (Batch D) Ms.S.G.Swami (Batch E)
5		12:00 to 1:00 PM	Lunch Break	
6		1:00 to 5:00 PM	Minimum Inhibitory concentration.	Mr.S.D.Kadam(Batch A) Dr. S. R. Surwase (Batch B) Mr. K. R. Gaikwad (Batch C) Mr. S.M.Bansode (Batch D) Ms.S.G.Swami (Batch E)
7	21/07/2022	9:00 AM to 12:00 Noon	Advanced instrumentation facilities available at department-Principle and working	Mr.S.D.Kadam(Batch A) Dr. S. R. Surwase (Batch B) Mr. K. R. Gaikwad (Batch C) Mr. S.M.Bansode (Batch D) Ms.S.G.Swami (Batch E)
8		12:00 to 1:00 PM	Lunch Break	
9		1:00 to 5:00 PM	Different types of media, Selective, Basal, Differential etc. and their use	Mr.S.D.Kadam(Batch A) Dr. S. R. Surwase (Batch B) Mr. K. R. Gaikwad (Batch C) Mr. S.M.Bansode (Batch D) Ms.S.G.Swami (Batch E)



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Department of Biotechnology**

**Hands on Training Program on Basics and Advanced Microbiological Techniques  
Class BSc BT TY**

Sr. No	Name of Student	Gender	Sign
1)	Achawale Deepak bhalchandra	MALE	<u>Achawale</u>
2)	Ade Rupali Dagadu	FEMALE	<u>Rupali</u>
3)	Bansode Prachi Pivaji	Female	<u>Prachi</u>
4)	Bawge vaishnavi Nagesh	Female	<u>Vaish</u>
5)	Bembade Ganesh Onyaneishwar	male	<u>Ganesh</u>
6)	Bhosale sneha siddeshwar	Female	<u>Sneha</u>
7)	Biradar Tejashree Ramakant	Female	<u>Tejashree</u>
8)	Bolegave suraj Bhagvat	male	<u>Bolegave</u>
9)	Gaikwad Natayan Maloji	male	<u>Gaikwad</u>
10)	Gaikwad Dakshin Gowind	Female	<u>Dakshin</u>
11)	HANCHATE ATHARVA RAJU	MALE	<u>Hanchate</u>
12)	Hausajmal Sanchi Rajabhau	Female	<u>Hausajmal</u>
13)	ITIKAR SACHIN RAJU	male	<u>Sachin</u>
14)	Jadhav Saurabh Satish	Male	<u>Saurabh</u>
15)	Jadhav Shubhamgi Subhash	Female	<u>Shubhamgi</u>
16)	Kadam vaishnavi Madhav	Female	<u>Kadam</u>
17)	Kaldale Shrivani omprakash	female	<u>Shrivani</u>
18)	Kale Akash Atmaram	male	<u>Akash</u>
19)	Kamble Purqa Yuvraj	Female	<u>Kamble</u>
20)	Kamble Gajanan laxman	male	<u>Kamble</u>
21)	Kamble Paras Gundu	male	<u>Paras</u>
22)	Kanwate Ritesh Vinayak	male	<u>Kanwate</u>
23)	Kanwate Shivani chandrashekhar	female	<u>Shivani</u>
24)	Kasale Shradha Tukaram	female	<u>Shradha</u>
25)	Kasbe Madhu Ganesh	Female	<u>Kasbe</u>
26)	Katkar Mohamadhanif Gulab	Male	<u>Katkar</u>
27)	Kendre Anjali Anil	Female	<u>Anjali</u>
28)	Khedkar Sohan Sanjay	Male	<u>Khedkar</u>
29)	Khot Parth Mandkisher	Male	<u>Khot</u>
30)	Kohale Prachi Karan	Female	<u>Kohale</u>
31)	Aditya Dhananjay Kuber	Male	<u>Aditya</u>
32)	Parth Milind J. Kulkarni	Male	<u>Parth</u>
33)	Mekhe Vaishnavi Satish	Female	<u>Vaishnavi</u>
34)	Manchal Neha Pramod	Female	<u>Manchal</u>
35)	Mane Sachin Ganpatrao	male	<u>Mane</u>
36)	Mane Vaishnavi Satish	Female	<u>Mane</u>
37)	Meusshette Vaishnavi Sautosh	Female	<u>Vaishnavi</u>
38)	Sheikh Mohammedjuneed Abdulkarim	male	<u>Sheikh</u>
39)	Shelke Digambar Balu	male	<u>Shelke</u>



40)	Shinde Pruthviraj Balaji	Male	<u>Shinde</u>
41)	Shinde Pruthviraj Balaji	Male	<u>Shinde</u>
42)	Shinde Naghabh. Gopal	Male	<u>Shinde</u>
43)	Alwadhe Bhimashankar Ramchandra	Male	<u>Shinde</u>
44)	Ratnaparkhe Vaishnavi Pralhad	Female	<u>Shinde</u>
45)	Samukhadas 10000 Machindru	Female	<u>Shinde</u>
46)	Rajmane Nikita Satish	Female	<u>Shinde</u>
47)	Anuja Anil Patil	Female	<u>Shinde</u>
48)	Puri Dnyaneshwar Rajendra	Male	<u>Shinde</u>
49)	Shaikh Ajaj Musa	Male	<u>Shinde</u>
50)	Patil Tram Aslam	Female	<u>Shinde</u>
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Date:- 21/07/2022

Class Coordinator

PRINCIPAL

Rajarshi Shahu Mahavidyalaya, Latur  
(Autonomous)



HOD

Head

Department of Biotechnology  
Rajarshi Shahu Mahavidyalaya,  
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