



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

**A) Summary Report**

1) Title of Programme:		Hands on Training Programme on Basic 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>Vice-Principal:</b> Prof. S. N. Shinde <b>Head:</b> Dr. S. S. Kulkarni		
4) Date(s) of the Programme:		5 <sup>th</sup> July to 8 <sup>th</sup> July 2022		
5) Venue/ Mode:		Offline at Department of Biotechnology		
6) Target Group:		B. Sc BT II <sup>nd</sup> year students		
7) Number of Participants: 51		<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	26	25	51
8) Name(s) and details of Resource Person(s), if any:		<b>Dr. M. A. Dhotre</b> (Assistant Professor, RSML) <b>Prof. S. G. Swami</b> (Assistant Professor, RSML) <b>Prof. A. M. Devarshe</b> (Assistant Professor, RSML)		
9) Total Expenditure for the Programme:		NIL		
10) Source of Funding:		Not applicable		

## **B) Report**

### **i. Title:**

Hands on Training Programme on Basic Microbiological Techniques.

### **ii. Introduction:**

Science is rising towards a great space in order to progress the technologies that are beneficial for the human race. In that contest Microbiological techniques are used for studying about microbes like bacteria, fungi and protists. Microorganisms belongs to both positive as well as negative effects, like some are responsible for causing many diseases in living beings while others are exploited for beneficial effects of our environment. So, in order to know the microorganisms a Hands-on Training programme on Basic Microbiological Techniques was organized for B. Sc BT II<sup>nd</sup> year students of Department of Biotechnology RSM Latur. The training programme gives an overview on the preparation of various types of laboratory media for isolation of microorganism by using different pure culture techniques. As well as the training programme includes knowledge about the identification of microorganisms by using different staining techniques like Monochrome staining, Negative staining, and Gram's staining. Also, the students get familiar with the preparation of different solutions, reagents, stains and their application while isolation and identification of microorganisms.

### **iii. Objectives of the Programme/ issues addressed**

- Students will get to know about role and applications of microorganisms in our daily life as well as their central role in nature.
- Students will be aware off and get hands on practice of basic microbiological techniques like isolation of microbes, identification of Microorganisms by using various stains.
- To promote the interdisciplinary research in the college/ institute.

### **iv. Details of Participants**

51 participants (26 Male and 25 female) attended the programme.

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

Hands on Training Programme on Basic Microbiological Techniques is organized for B. Sc BT II<sup>nd</sup> year students on dated 5<sup>th</sup> July to 8<sup>th</sup> July. Firstly, Dr. S. S. Kulkarni welcomed students. As well as he discussed with the students about the importance and applications of Microorganisms in our day-to-day life and briefly elaborated about the training programme. After the inauguration the training programme was begin according to the schedule. On first day 5<sup>th</sup> July students were distributed in 3 batches under the guidance of 3 resource persons. SO, in morning session students get familiar with laboratory rules and laboratory equipment's and in afternoon practical session that is laboratory media preparation get started. On 6<sup>th</sup> July students were aware with the pure culture techniques for isolation of microorganisms. On the next day 7<sup>th</sup> July students studied the morphology of microorganisms by different staining techniques. On 8<sup>th</sup> July students stored their own pure culture of microorganisms and in afternoon a doubt clearing session is also there. Students thoroughly enjoyed this training programme.

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

Hands on training programme on Basic Microbiological Techniques was magnificently completed. 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 used the microbiological skills during their Practicals, and get to know about the role of microorganisms.

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

**Date: 09/07/ 2022**



**HoD  
Head**

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



**Principal  
PRINCIPAL**

Rajarshi Shahu Mahavidyalaya, Latur  
(Autonomous)

### C) Geotagged Photographs / Screenshots:



**Inauguration Function of Hands-on Training programme on Basic Microbiological Techniques: In Presence of Hon. Dr. S. S. Kulkarni (HoD of Dept. of Biotechnology, RSML), Dr. M. A. Dhotre (Assistant Professor Dept. of Biotechnology, RSML)**



**Resource Person Dr. M. A. Dhotre, Assistant Professor, Department of Biotechnology, Rajarshi Shahu Mahavidyalaya (Autonomous), Latur, conducting the session and students were getting hands on practice session.**



D) Boucher of the Programme: -

Shiv Chhatrapati Shikshan Sanstha's  
**Rajarshi Shahu Mahavidyalaya (Autonomous), Latur**  
**Hands-On Training Programme**  
Organized by  
**Department of Biotechnology & Food Processing Technology**  
On  
**Basic Microbiological Techniques**

**Chair Person**  
**Dr. Mahadev Gavhane**  
Principal  
**Prof. S. N. Shinde**  
Vice-Principal  
**Dr. S. S. Kulkarni**  
Head  
**Mr. S. D. Kadam**  
Class Co-Ordinator

**BACTERIA**

**Resource Persons**

- **Dr. M. A. Dhotre**  
Assistant Professor,  
Department of Biotechnology & Food Processing Technology,  
Rajarshi Shahu Mahavidyalaya (Autonomous), Latur
- **Miss. S. G. Swami**  
Assistant Professor,  
Department of Biotechnology & Food Processing Technology,  
Rajarshi Shahu Mahavidyalaya (Autonomous), Latur
- **Miss. A. M. Devarshe**  
Assistant Professor,  
Department of Biotechnology & Food Processing Technology,  
Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

**Date**  
05 July 2022 To 08 July 2022

**Time**  
10:00 AM to 04:00 PM

**E) Schedule for Hands-On Training Programme: -**

**Schedule for Hands on Training programme on  
Basic Microbiological Techniques**

Sr. No.	Date	Time	Practical
1	05/07/2022	01:00 PM to 02:00 PM	✓ Inauguration of Training Programme
		02:00 PM to 05:00PM	✓ Laboratory rules and Basic handling of Laboratory Equipment's
2	06/07/2022	10:00 AM to 01:00 PM	✓ Laboratory Media Preparation ✓ Media Plate Preparation
		01:00 PM to 02:00 PM	Lunch Break
		02:00 PM to 05:00 PM	✓ Pure Culture Techniques
3	07/07/2022	10:00 AM to 01:00 PM	✓ Identification of Isolated Microorganisms
		01:00 PM to 02:00 PM	Lunch Break
		02:00 PM to 05:00 PM	✓ Preservation of Microorganisms ✓ Preparation of Stains and reagents
4	08/07/2022	10:00 AM to 01:00 PM	✓ Doubt solving session
		01:00 PM to 02: 00 PM	✓ Lunch Break
		02:00 PM to 05:00PM	✓ Preservation of pure culture of Microorganisms

  
**Head of Department**

**Dr. S. S. Kulkarni**

Head  
Department of Biotechnology  
Rajarshi Shahu Mahavidyalay  
(Autonomous) Latur-413 53



**Rajarshi Shahu Mahavidyalaya (Autonomous), Latur**

**Department of Biotechnology**

**Hands on Training Programme on**

**" Basic Microbiological Techniques "**

**Students Attendance Sheet**

Sr. No	Name of Students	Gender	05/07/2022	06/07/2022	07/07/2022	08/07/2022
1	BABJI SHRUTI KISHOR	Female	Shruti	Shruti	Shruti	Shruti
2	BAPATNE SHRAVANI UMAKANT	Female	Shravani	Shravani	Shravani	Shravani
3	BARDALE RUTUJA BASWARAJ	Female	Rutuja	Rutuja	Rutuja	Rutuja
4	BIRADAR OMKAR VASANT	male	Omkar	Omkar	Omkar	Omkar
5	BIRAJDAR MANGESH GANAPATI	male	Birajdar	Birajdar	Birajdar	Birajdar
6	BIRAJDAR MANISHA MANOHAR	—AA—	—AA—	—AA—	—AA—	—AA—
7	BIRAJDAR RUTUJA RAVINDRA	Female	Rutuja	Rutuja	Rutuja	Rutuja
8	BODAKE CHAITANYA SAHEBRAO	Male	Chaitanya	Chaitanya	Chaitanya	Chaitanya
9	BUCCHE SAGAR MADHAV	Male	Sagar	Sagar	Sagar	Sagar
10	DEVDE GANESH SHYAMRAO	male	Devde	Devde	Devde	Devde
11	GADADE RUTUJA HARISHCHANDRA	Female	Rutuja	Rutuja	Rutuja	Rutuja
12	GADDE AMRUTA DATTATRAY	—AA—	—AA—	—AA—	—AA—	—AA—
13	GAHIRWAR VAISHNAVI HANMANTSINGH	Female	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi
14	GIRAM SHIVANI PRABHULING	Female	Shivani	Shivani	Shivani	Shivani
15	GULBHILE SURAJ DHANANJAY	Male	Suraj	Suraj	Suraj	Suraj
16	GUTTE SURAJ JANARDHAN	male	Suraj	Suraj	Suraj	Suraj
17	HAKE ADITYA VENKAT	Male	Hake	Hake	Hake	Hake
18	HALKUDE MANSI PANKAJAPPA	Female	Mansi	Mansi	Mansi	Mansi
19	HANMANTE JAYSOAF BHARAT	—AA—	—AA—	—AA—	—AA—	—AA—
20	HARDE CHAITANYA SHAMRAO	Male	Harde	Harde	Harde	Harde
21	KALYANI SANCHETI DAYANAND	female	Sancheti	Sancheti	Sancheti	Sancheti
22	KAMBLE POOJA MILIND	—AA—	—AA—	—AA—	—AA—	—AA—
23	KAWDALE VIKRAM VIJAYKUMAR	Male	Vikram	Vikram	Vikram	Vikram
24	KHOT SOPAN KISHAN	male	Sopan	Sopan	Sopan	Sopan
25	KOLEWAD SNEHA SANTOSH	Female	Sneha	Sneha	Sneha	Sneha
26	KOUSIK NISHA ANKUSH	Female	Nisha	Nisha	Nisha	Nisha
27	KSHIRSAGAR SWAPNIL DHANRAJ	Male	Swapnil	Swapnil	Swapnil	Swapnil
28	MALKUDE OMKAR MANAMATHAPPA	Male	Omkar	Omkar	Omkar	Omkar
29	NAIKWADE KESHAV NETAJI	male	Keshav	Keshav	Keshav	Keshav
30	NAIKWADI TANAYA CHANDRAKANT	female	Tanaya	Tanaya	Tanaya	Tanaya



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**Department of Biotechnology**

**Hands on Training Programme on**

**" Basic Microbiological Techniques "**

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Sr. No	Name of Students	Gender	05/07/2022	06/07/2022	07/07/2022	08/07/2022
31	PANDE SHRUTI PURUSHOTTAM	Female	<u>Shruti</u>	<u>Shruti</u>	<u>Shruti</u>	<u>Shruti</u>
32	PARMAR RANI NEGPALSINGH	Female	<u>Ranika</u>	<u>Ranika</u>	<u>Ranika</u>	<u>Ranika</u>
33	PATHAN ARBAJ AJI	male	<u>Arbaaj</u>	<u>Arbaaj</u>	<u>Arbaaj</u>	<u>Arbaaj</u>
34	PATIL AKANKSHA MUKUND	Female	<u>Akanksha</u>	<u>Akanksha</u>	<u>Akanksha</u>	<u>Akanksha</u>
35	PATIL GAYATRI SUHAS	Female	<u>Gayatri</u>	<u>Gayatri</u>	<u>Gayatri</u>	<u>Gayatri</u>
36	PICHE PRAJVAL RAMESH	male	<u>Prajval</u>	<u>Prajval</u>	<u>Prajval</u>	<u>Prajval</u>
37	PIMPLE SAYALI SANTOSH	Female	<u>Sayali</u>	<u>Sayali</u>	<u>Sayali</u>	<u>Sayali</u>
38	RAVIKAR ANKITA CHANDRASHEKHAR	Female	<u>Ankita</u>	<u>Ankita</u>	<u>Ankita</u>	<u>Ankita</u>
39	SHAIKH FARDEEN ASIF	Male	<u>Fardeen</u>	<u>Fardeen</u>	<u>Fardeen</u>	<u>Fardeen</u>
40	SHAIKH SHAFEE HAMID	male	<u>Shafee</u>	<u>Shafee</u>	<u>Shafee</u>	<u>Shafee</u>
41	SHEP NILESH MAHADEV	male	<u>Nilesh</u>	<u>Nilesh</u>	<u>Nilesh</u>	<u>Nilesh</u>
42	SHINDE SANDEEP PANDIT	male	<u>Sandeep</u>	<u>Sandeep</u>	<u>Sandeep</u>	<u>Sandeep</u>
43	SURWASE SMITA SHIVAJI	Female	<u>Smrita</u>	<u>Smrita</u>	<u>Smrita</u>	<u>Smrita</u>
44	SWAMI SHIVPOOJA SANJAY	Female	<u>Swami</u>	<u>Swami</u>	<u>Swami</u>	<u>Swami</u>
45	TAGLURE BILAL MAHBUBSAB	Male	<u>Bilal</u>	<u>Bilal</u>	<u>Bilal</u>	<u>Bilal</u>
46	TEKALE MAHADEV SHRIMANT	Male	<u>Tej</u>	<u>Tej</u>	<u>Tej</u>	<u>Tej</u>
47	TENKALE NIKITA ASHOK	Female	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>
48	WADIKAR SWATI RAM	Female	<u>Swati</u>	<u>Swati</u>	<u>Swati</u>	<u>Swati</u>
49	WARWATE SHANTANU SANJAY	Male	<u>Shant</u>	<u>Shant</u>	<u>Shant</u>	<u>Shant</u>
50	KAMBLE PRAJAKTA LALA	Female	<u>Prajakta</u>	<u>Prajakta</u>	<u>Prajakta</u>	<u>Prajakta</u>
51	SAYYAD MUSKAN HARUNE	Female	<u>Muskan</u>	<u>Muskan</u>	<u>Muskan</u>	<u>Muskan</u>
52	GUJARE ASHWINI VISHWANATH	Female	<u>Ashwin</u>	<u>Ashwin</u>	<u>Ashwin</u>	<u>Ashwin</u>
53	RATHOD MOHAN RAJABHAU	Male	<u>Rud</u>	<u>Rud</u>	<u>Rud</u>	<u>Rud</u>
54	TELE SHANTANU PANDURANG	AA	AA	AA	AA	AA
55	WAGHMARE NITIN NIVRUTTI	Male	<u>Nitin</u>	<u>Nitin</u>	<u>Nitin</u>	<u>Nitin</u>
56	KAMBLE PRAJWAL GURUDATTA	male	<u>Prajwal</u>	<u>Prajwal</u>	<u>Prajwal</u>	<u>Prajwal</u>
57	YADAV ABHISHEK RAGHURAJE	AA	AA	AA	AA	AA

  
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