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 and Applied Microbiological Techniques		
2) Name of Organizing Department/Unit:		Biotechnology		
3) Name of the Coordinator(s)/ Convener(s)/ Organizer(s) of the Programme:		**Chair Person**: Dr. Mahadev Gavhane (Principal) **Vice-Principal:** Prof. S. N. Shinde (Vice-Principal) **Head**: Dr. S. S. Kulkarni		
4) Date(s) of the Programme:		22nd February to 24th February 2022		
5) Venue/ Mode:		Offline at Department of Biotechnology		
6) Target Group:		Chemistry PG students		
7) Number of Participants:		**Male**	**Female**	**Total**
A separate list with signatures be maintained in the department/Unit)	Teaching	00	00	00
	Non-Teaching	00	00	00
	Students	17	21	38
8) Name(s) and details of Resource Person(s), if any:		**Prof. A. M. Devarshe** (Assistant Professor, RSML) **Prof. S. M. Bansode** (Assistant Professor, RSML) **Prof. K. S. Komatwar** (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 and Applied Microbiological Techniques.

ii. Introduction:

Science is growing at a great space in order to develop technologies that are beneficial for the human race. In that race Microbiological techniques are used for studying about microbes like bacteria, fungi and the protists. Microbes have extreme importance in our day today lives. They have both positive as well as negative effects, like some are responsible for so many potential diseases in human and other living beings while others are utilized for benefit of our environment. So, in order to study the microorganisms a Hands-on Training on Basic and Applied Microbiological Techniques was Organized for PG Chemistry students of our college. The training programme gives an overview on the effect of microorganism on different chemical products which are synthesized by students during their project. The training programme includes knowledge about laboratory rules, Pure Culture Techniques, Anti-Microbial Susceptibility and Minimum Inhibitory Concentration of different chemical compounds synthesized by chemistry students as a part of their master's project along with the studies on standard antimicrobial products available in market and are in commercial use.

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

38 participants (17 Male and 21 female) attended the programme.

v. Brief Summary of Events/ Sessions:

Hands on Training Programme on Basic and Applied Microbiological Techniques is organized for Chemistry PG students on dated 22nd February to 24th February. Firstly, Dr. S. S. Kulkarni welcomed the students and introduced about the department and the programme overview. After the introduction the training programme is begin according to the schedule. On first day on 22nd February Miss. Ashwini Devarshe introduced students with laboratory rules and laboratory equipment's in morning session and in afternoon session practical session is started. On second day 23rd February Miss. Karuna Komatwar continued the training programme in this session students are familiar with the pure culture techniques for isolation of microorganisms and Anti-Microbial Susceptibility testing. On the last day 24th February Mr. Sanket Bansode elaborated on practical aspects of Minimum Inhibitory Concentration. The students thoroughly enjoyed this training programme. Finally, Ms. Swati Swami thanked chairperson's and students for their presence and participation.

vi. Conclusion, with feedback on the programme: -

Hands on training programme on Basic and Applied Microbiological Techniques was successfully 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 skills they learned during this program in their project work.

vii. Appendix: - List of participants.

Date: 25/02/ 2022

HOD
Head
Department of Biotechonlogy
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Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)

Principal
PRINCIPAL
Rajarshi Shahu Mahavidyalaya,Latur
(Autonomous)

Schedule for Hands on Training programme on Basic and Applied Microbiological Techniques

Sr. No.	Date	Time	Practical	Name of Resource Person
1	22/02/2022	9:00 AM To 12:00PM	➢ Laboratory rules: Basic Rules of a Microbiology Laboratory ➢ Laboratory Instruments Introduction	**Prof. A. M. Devarshe**
		12:00 PM To 1:00 PM	Lunch Break	
		1:00 PM To 5:00 PM	➢ Laboratory Media Preparation ➢ Media Plate Preparation	**Prof. A. M. Devarshe**
2	23/02/2022	10:00 Am To 01:00 Pm	➢ Pure Culture Techniques ➢ Antimicrobial Activity	**Prof. K. S. Komatwar**
		01:00 PM To 02:00 PM	Lunch Break	
		02:00 PM To 05:00 PM	➢ Minimum Inhibitory Concentration (MIC)	**Prof. K. S. Komatwar**
3	24/02/2022	10:00 AM To 01:00 PM	➢ MIC Practical Results	**Prof. S. M. Bansode**
		01:00 PM To 02:00 PM	Lunch Break	
		02:00 PM To 05:00 PM	➢ Anti-Microbial Activity Results	**Prof. S. M. Bansode**

Head of Department
Dr. S. S. Kulkarni

Head
Department of Biotechonlogy
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C) Geotagged Photographs / Screenshots:

Resource PersonProf. A. M. Devarshe, Assisstant Professor, Department of Biotechnology, Rajarshi Shahu Mahavidyalaya (Autonomous), Latur, conducting the session and students were getting hands on practice session.

Resource Person Prof. S. M. Bansode, Assisstant Professor, Department of Biotechnology, Rajarshi Shahu Mahavidyalaya (Autonomous), Latur, conducting the session and students were getting hands on practice session.

Resource Person Prof. S. M. Bansode, Assisstant Professor, Department of Biotechnology, Rajarshi Shahu Mahavidyalaya (Autonomous), Latur, conducting the session and students were getting hands on practice session.

Valedictory Function: In Presence of Hon. Prof. S. N. Shinde (Vice-Principal) of Rajarshi Shahu Mahavidyalaya (Autonomous), Latur., Mr. D. G. Palke (HoD of Dept. of Chemistry), Dr. K. I. Momin (Assistant Professor, Dept. of Chemistry, RSML), Dr. S. S. Kulkarni (HoD of Dept of Biotechnology, RSML).

D) Boucher of the Programme: -

Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

Department of Biotechnology

Hands on Training on Basic and Applied Microbiological Techniques

List of participants

Sr. No.	Name of the Participants	Gender	Designation	Signature
1.	Pathan Sana Salauddin	Female	Student	
2.	Shubham Nagnath Bolegawe	Male	Student	
3.	Kesale Pratik Prakash	Male	Student	
4.	Jagtap Pratiksha Nandkumar	Female	Student	
5.	Gavkare Pranita Sunil	Female	Student	
6.	Shilpa Shahuraj Boyane	Female	Student	
7.	Shital Suresh Dongare	Female	Student	
8.	Gawali Shrinath Nandkumar	Male	Student	
9.	Shinde Rohini Pratap	Female	Student	
10.	More Dattatray Govindrao	Male	Student	
11.	Mane Vishwajeet Devidas	Male	Student	
12.	Dhiraj Nagnath Raut	Male	Student	
13.	Chaudhari Tirupati Laxman	Male	Student	
14.	Deshmukh Amit Keshav	Male	Student	
15.	Mangesh Baburao Mane	Male	Student	
16.	Mane Nagnath Pandit	Male	Student	
17.	Patil Rinku Dayanand	Female	Student	
18.	Bhandare Amruta Atmaram	Female	Student	
19.	Bhange Varsha Jayhind	Female	Student	
20.	Pashime Pallavi Sikandar	Female	Student	

21.	Kankatte Akshay Vilas	Male	Student	
22.	Mane Gitanjali Balkrushna	Female	Student	
23.	Jirole Pooja Basavraj	Female	Student	
24.	Biradar Vinod Balaji	Male	Student	
25.	Bhosale namrata balaji	Female	Student	
26.	Kasture Rushali Vasantrao	Female	Student	
27.	Mahamad Mahebub Mullla	Male	Student	
28.	Bagwan uzma Atikurraheman	Female	Student	
29.	Shaikh Tuba Shireen Saheboddin.	Female	Student	
30.	Muddasir Mubeen Pathan	Male	Student	
31.	Waghmare Narayan suryakant	Male	Student	
32.	Patil Ankita Sangram	Female	Student	
33.	Bade Yogesh Madhav	Male	Student	
34.	Bayche Ganesh Vishwanath	Male	Student	
35.	Supriya Sanjay Usture	Female	Student	
36.	Shital Suresh Dongare	Female	Student	
37.	Giri Vaishnavi Jaygir	Female	Student	
38.	Chate Nikita Sanjay	Female	Student	

Date: 25/02/2022.

HoD
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