



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

1) Title of Programme:	Bridge Course			
2) Name of Organizing Department/Unit:	Department of Biotechnology			
3) Name of the Coordinator(s)/ Convener(s)/ Organizer(s) of the Programme:	Principal: Dr. M. H. Gavhane Vice Principal: Prof. S. N. Shinde Head: Dr S. S. Kulkarni			
4) Date(s) of the Programme:	2 <sup>nd</sup> July 2025 To 7 <sup>th</sup> July 2025			
5) Venue/ Mode:	Department of Biotechnology			
6) Target Group:	B. Sc BT I Year 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	13	23	36
8) Name(s) and details of Resource Person(s), if any:	1. Mr. U. P. Sirdeshmukh 2. Mr. S. D. Kadam 3. Mr. A. J. Waghmare 4. Ms. Swati G. Swami			
9) Total Expenditure for the Programme:	Nil			
10) Source of Funding:	Not Applicable			

## B) Report

### i. Title

Bridge Course

### ii. Introduction

In order to facilitate the transition from higher secondary education to undergraduate study in life sciences, the Bridge Course for First-Year B. Sc. Biotechnology students was established. The course was created to reinforce basic concepts, introduce laboratory infrastructure, and improve critical scientific, communication, and digital skills in light of the varied academic backgrounds of recently admitted students.

For the academic year 2025–2026, the Department of Biotechnology arranged a five-day Bridge Course from July 2<sup>nd</sup> to 7<sup>th</sup>, 2025. In order to prepare students for the academic rigor of the Biotechnology program, the program sought to acquaint them with the curriculum structure, laboratory procedures, interdisciplinary learning, and job options in life sciences.

### iii. Objectives of the Programme:

- To strengthen students' foundational understanding of core concepts in life sciences and biotechnology.
- To bridge the knowledge gap between higher secondary education and undergraduate-level biotechnology curriculum.
- To familiarize students with laboratory infrastructure, safety protocols, and essential scientific techniques.
- To enhance students' communication, digital literacy, and interdisciplinary skills.
- To encourage critical thinking, problem-solving abilities, and an early orientation toward research and innovation in biotechnology.

### Schedule of the Bridge Course:

Sr. No.	Date	Content	Name of Faculty
1.	<b>Day 1</b> 02.07.2025	Introductory Speech	Dr. S. S. Kulkarni
2.		Course Structure	Dr. M. A. Dhotre
3.		Lab. Visit (First floor)	Lab. Incharge
4.	<b>Day 2</b> 03.07.2025	Basics of Life Sciences and Cell Biology	Ms. S. G. Swami
5.		Microbiology and Scientific Skills	Mr. S. D. Kadam
6.		Lab. Visit (Second floor)	Lab. Incharge
7.	<b>Day 3</b> 04.07.2025	Biomolecules	Mr. U. P. Sirdeshmukh
8.		Communication, Digital and Interdisciplinary Skills	Mr. Krishna Deshmukh, Mr. A. J. Waghmare,

			Ms. R. P. Shinde & Ms. A. B. Gurme.
9.		Lab. Visit (Third floor)	Lab. Incharge
10.	<b>Day 4</b>	Carrier Opportunities in Life Sciences	Dr. S. S. Kshirasagar
11.	05.07.2025	PTC Lab. Botanical Garden	All Faculty
12.	<b>Day 5</b> 07.07.2025	Review and Campus Visit	All Faculty

#### iv. Details of Participants

36 Participants (13 Male and 23 female) attended the workshop.

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

The Department of Biotechnology conducted a five-day Bridge Course for first-year B.Sc. Biotechnology students to support their transition into undergraduate studies. The program opened with a welcome address by Dr. S. S. Kulkarni, followed by an overview of the course framework presented by Dr. M. A. Dhotre. This session outlined academic requirements, evaluation procedures, and course objectives.

On the first day, students were introduced to departmental laboratories, facilities, and safety guidelines through guided visits. The second day included a session on the fundamentals of Life Sciences and Cell Biology by Ms. S. G. Swami. This was complemented by a lecture on Microbiology and essential scientific practices by Mr. S. D. Kadam, who highlighted proper laboratory conduct, standard techniques, and ethical considerations in research. On the third day, students attended a lecture on Biomolecules delivered by Mr. U. P. Sirdeshmukh. In addition, faculty members conducted sessions focusing on communication skills, digital competencies, and interdisciplinary learning, emphasizing the role of soft skills and technology in contemporary biotechnology. The fourth day featured an engaging talk on career prospects in Life Sciences by Dr. S. S. Kshirasagar, encouraging students to consider a wide range of professional opportunities. Students also visited the PTC Laboratory and the Botanical Garden, which provided practical exposure and enhanced experiential learning. The program concluded on the fifth day with a review and feedback session, along with a campus tour. This final day enabled students to consolidate their learning and familiarize themselves with the institution's academic environment and facilities.

## vi. Conclusion with Feedback on the Programme

The Bridge Course effectively met its intended goals by reinforcing students' basic knowledge and equipping them for undergraduate-level studies in biotechnology. Participant feedback reflected increased confidence, enhanced understanding of fundamental concepts, and a strong appreciation for hands-on laboratory experience and career-oriented guidance. The interactive sessions, combined with a supportive and engaging learning environment, contributed significantly to the programme's success. Overall, the Bridge Course emerged as a meaningful academic initiative, providing students with a solid foundation for their future academic and professional growth.

vii. **Appendix:** List of Participants.

**Date:** 08.07.2025.

  
**HoD  
Head**

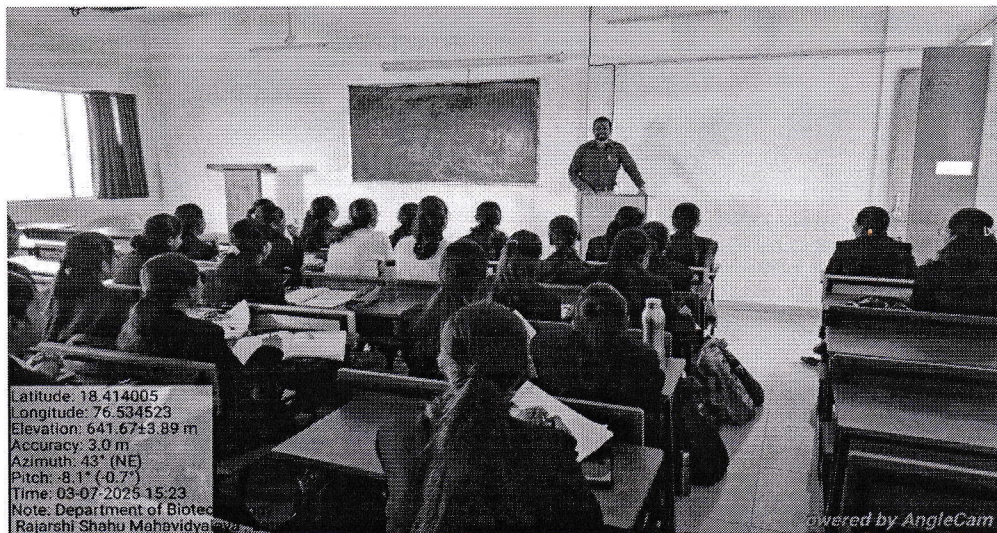
Department of Biotechnology  
Rajarshi Shahu Mahavidyalaya  
(Autonomous) Latur-413 531



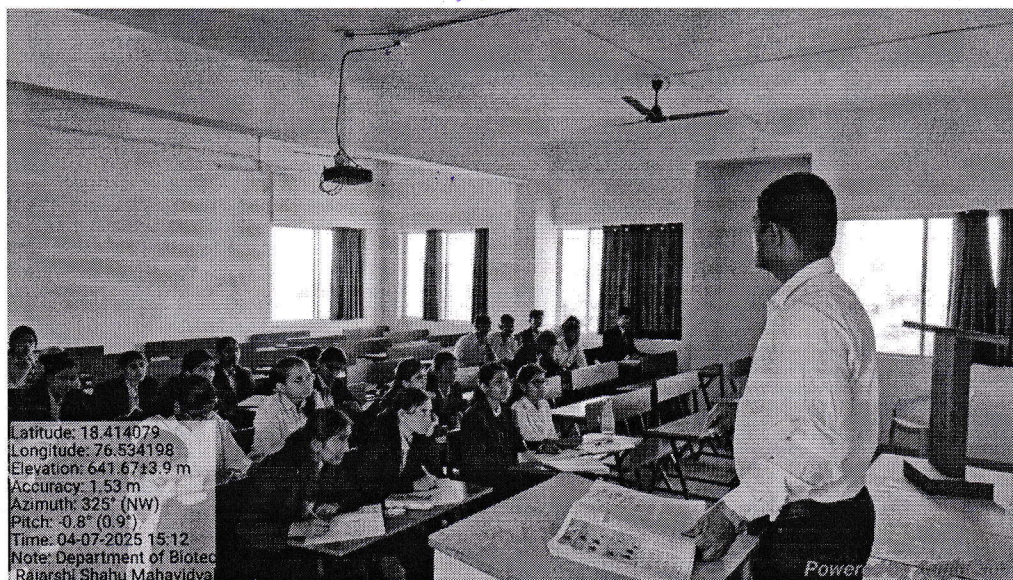
  
**Principal  
PRINCIPAL**

Rajarshi Shahu Mahavidyalaya, Latur  
(Autonomous)

### C) Geotagged Photographs/ Screenshots



Asst. Prof. S. D. Kadam explaining the concept of Microbiology and Scientific Skills



Asst. Prof. U. P. Sirdeshmukh delivering the lecture on Biomolecules

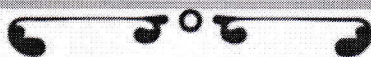
## D) Brochure



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

**Organizes**

# BRIDGE COURSE



## RESOURCE PERSON

Asst. Prof. U. P. Sirdeshmukh  
Dept. of Biotechnology  
Rajarshi Shahu  
Mahavidyalaya, Latur  
(Autonomous)

Asst. Prof. S. D. Kadam  
Dept. of Biotechnology  
Rajarshi Shahu  
Mahavidyalaya, Latur  
(Autonomous)

Asst. Prof. A. J. Waghmare  
Dept. of Biotechnology  
Rajarshi Shahu  
Mahavidyalaya, Latur  
(Autonomous)

Asst. Prof. S. G. Swami  
Dept. of Biotechnology  
Rajarshi Shahu  
Mahavidyalaya, Latur  
(Autonomous)

Dr. Mahadev Gavhane  
Principal

Prof. S. N. Shinde  
Vice- Principal

Dr. Sachin Kulkarni  
Head, Dept. of Biotechnology

**Date: 2 July - 7 July 2025**

**Time: 10:00 AM**

**Venue: Seminar Hall**





31.	Mane Sae Amoi	F	<del>Amoi</del>	<del>Amoi</del>	<del>Amoi</del>	<del>Amoi</del>	<del>Amoi</del>	<del>Amoi</del>
32.	Bodake Tanuja Sambhaji	F	<del>Tanuja</del>	<del>Tanuja</del>	<del>Tanuja</del>	<del>Tanuja</del>	<del>Tanuja</del>	<del>Tanuja</del>
33.	Priyanka Kalyan Kure	F	<del>Priyanka</del>	<del>Priyanka</del>	<del>Priyanka</del>	<del>Priyanka</del>	<del>Priyanka</del>	<del>Priyanka</del>
34.	Sarde Shital Bhausaheb	F	<del>Sarde</del>	<del>Sarde</del>	<del>Sarde</del>	<del>Sarde</del>	<del>Sarde</del>	<del>Sarde</del>
35.	Sarima Latif Maniyar	F	<del>Sarima</del>	<del>Sarima</del>	<del>Sarima</del>	<del>Sarima</del>	<del>Sarima</del>	<del>Sarima</del>
36.	Sakshi Pradip Kutwadde	F	<del>Sakshi</del>	<del>Sakshi</del>	<del>Sakshi</del>	<del>Sakshi</del>	<del>Sakshi</del>	<del>Sakshi</del>
37.								
38.								
39.								
40.								
41.								
42.								
43.								
44.								
45.								

Date: 08/07/2025

  
Head

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



  
Principal  
Rajarshi Shahu Mahavidyalaya, Latour  
(Autonomous)