



Shiv Chhatrapati Shikshan Sanstha's
Rajarshi Shahu Mahavidyalaya, Latur
(Autonomous)
Department of Zoology and Fishery Science

A) Summary Report of the Activity

1) Title of Programme:	Hands-On Training Techniques in Molecular Biology and Haematology			
2) Name of Organizing Department/Unit:	Department of Zoology and Fishery science			
3) Name of the Coordinator(s)/ Convener(s)/Organizer(s) of the Programme:	Dr. D.S.Rathod (HoD) Convener Dr. K.S.Raut Mr. Datta Nalle Miss. Pratiksha Patil Sakshi Rajput			
4) Date of the Programme:	27/03/2026			
5) Venue:	Department of Zoology and Fishery Science			
6) Target Group:	UG students			
7) Number of Participants:	Male	Female	Total	
A separate list with signature be maintained in the department/Unit)	Teaching	03	02	05
	Non-Teaching	03	00	03
	Students	03	27	30
8) Name(s) and details of Resource Person(s), if any:	Dr. Nilesh More Prof. Dr. Sarika Bhalerao Shende			
9) Total Expenditure for the Programme:	Under PM USHA			
10) Source of Funding:	Not Applicable			

B) Report

i. Title: Hands-On Training Techniques in Molecular Biology and Haematology

ii. Introduction:

The Hands-On Training Techniques in Molecular Biology and Haematology programme was successfully organized to provide students with practical exposure to advanced laboratory techniques. The training aimed to enhance students' technical skills, laboratory competence, and understanding of modern experimental methods used in biological sciences. Special emphasis was given to laboratory safety, proper handling of instruments and samples, and accurate interpretation of experimental results.

iii. Objectives:

1. To provide practical knowledge of key molecular biology techniques.
2. To train participants in essential haematology laboratory methods.
3. To develop understanding of laboratory safety and result interpretation.
4. To improve confidence in performing experiments independently.

iv. Details of Students' Participation:

A total of 40 students registered for the programme, out of which 30 (27 Female and 03 Male) students successfully completed the training course.

v. Brief Summary of the Event:

The two-day hands-on training programme was conducted on 27th and 28th March 2026. On the first day, Dr. Nilesh More conducted practical sessions on DNA Isolation and Agarose Gel Electrophoresis, followed by training on Gene Cloning techniques including PCR, ligation, cell preparation, transformation, and clone confirmation.

On the second day, Prof. Dr. Sarika Bhalerao Shende delivered practical training on SDS-PAGE, Protein Estimation, and Western Blotting. The session also included Primer Designing and CBC Analysis, providing participants with exposure to both molecular biology and haematology-based laboratory techniques.

The programme was conducted successfully, and students actively participated throughout the sessions.

vi. Outcomes:

The training programme significantly improved students' practical skills, scientific accuracy, and confidence in performing laboratory experiments. Overall, the programme achieved its objectives effectively.

vii. Any Appendix if Necessary: List of Participants attached.

Date: 28.09.2025

Place: Latur

J. 2162
HoD



J. 2162
Principal
PRINCIPAL
Rajarshi Shahu Mahavidyalaya, Latur
(Autonomous)

B) Geotagged Photographs:

Inaugural Function and Session

Date 27/03/2026



Dr. Nilesh More was felicitated by Dr. P. R. Rodiya and Dr. D. S. Rathod, Head of the Department of Zoology, along with other staff members.



Dr. Nilesh More delivered a talk on DNA isolation and agarose gel electrophoresis.



Dr. Nilesh More delivered a talk on the PCR technique.

Group Photo of Participant with Resource Person and Departmental staff



Dr. Nilesh More demonstrated practical procedures on DNA Isolation, Agarose Gel Electrophoresis, and PCR.

Inaugural Function and Session

Date 28/03/2026



Prof. Dr. Sarika Bhalerao Shende was felicitated by Miss. Sakshi Rajput and Dr. D. S. Rathod, Head of the Department of Zoology, along with other staff members.



Prof. Dr. Sarika Bhalerao Shende delivered a talk on SDS-PAGE, Protein Estimation, Western Blotting



Prof. Dr. Sarika Bhalerao Shende delivered a talk on Primer Designing and CBC Analysis

Group Photo of Participant with Resource Person and Departmental staff



Prof. Dr. Sarika Bhalerao Shende demonstrated practical procedures on DNA Isolation, Agarose Gel Electrophoresis, and PCR.

C) Flyer:

Shiv Chhatrapati Shikshan Sanstha's
Rajarshi Shahu Mahavidyalaya, Latur
(Empowered Autonomous Institution)
Department of Zoology and Fishery Science
Organize's
PM-USHA
Sponsored



Hands-on Training
Techniques In
Molecular Biology and Haematology
Date: 27th to 28th, March 2026

Content	Details of Training
<p>Basics: Lab safety and micro pipetting practice, DNA Isolation, Agarose Gel Electrophoresis</p> <p>Gene Cloning: PCR, Ligation, Competent Cell Preparation, Transformation, Clone Confirmation.</p> <p>Protein biology: SDS-PAGE, Total Protein Estimation, Western Blotting,</p> <p>Bioinformatics: Primer Designing in-silico</p> <p>Haematology: CBC Analysis: Hb, RBC WBC and platelet count), Bleeding and Clotting Time</p>	<ul style="list-style-type: none">• Certificate will be issued on successful completion of training• Last Registration Date on 22nd March-2026• Contact No :• 7720924930• 9423714213• 7020962932

D. Technical Session Schedule:

Sr. No.	Name Of Resource Person	Topics	Time
27/03/2026			
1.	Dr. Nilesh More	DNA Isolation and Agarose Gel Electrophoresis	9.00 am to 1.00 pm
2.	Dr. Nilesh More	Gene Cloning: PCR, Ligation, Cell Preparation, Transformation and Clone confirmation	2.00 am to 6.00 pm
28/03/2026			
3.	Prof. Dr. Sarika Shende	SDS-PAGE, Protein Estimation, Western Blotting	9.00 am to 1.00 pm
4.	Prof. Dr. Sarika Shende	Primer Designing and CBC Analysis	2.00 am to 6.00 pm

D) Participation List



Shiv Chhatrapati Shikshan Sanstha's

Rajarshi Shahu Mahavidyalaya, Latur



Empowered Autonomous Institute
Department of Zoology and Fishery Science
Organize's

PM-USHA Sponsored

Hands-on Training Techniques In Molecular Biology and Haematology

Date: 27th to 28th, March 2026

Attendance List of Participant

Sr. No.	Name Of Participant	Designation	Name of the College	Signature
1	Rutuja Ramchandra Gaikwad	B.Sc III Year	Rajarshi Shahu Mahavidyalaya Latur	Rutuja G.
2	Shaikh Tarannum Ayyub	B.Sc II Year	Rajarshi Shahu Mahavidyalaya Latur	Tarannum
3	Geeta Nagnath Petkar	B.Sc I Year	Rajarshi Shahu Mahavidyalaya Latur	Geeta
4	Sanika Sunil Tungikar	M.Sc II Year	Rajarshi Shahu Mahavidyalaya Latur	Geeta
5	Shaikh Tamanna Nabisab	B.Sc III Year	Rajarshi Shahu Mahavidyalaya Latur	Tamanna
6	Kadam Anjali Guntant	M.Sc II Year	Rajarshi Shahu Mahavidyalaya Latur	Kadamb
7	Sayyed Rubinabegam Vasayeqali	B.Sc I Year	Rajarshi Shahu Mahavidyalaya Latur	Sayyed
8	Surwase Sneha Balaji	B.Sc I Year	Rajarshi Shahu Mahavidyalaya Latur	Sneha
9	Kamble Madhura Rajkumar	M.Sc I Year	Rajarshi Shahu Mahavidyalaya Latur	Madhura K
10	Mane Diptee Santram	B.Sc I Year	Rajarshi Shahu Mahavidyalaya Latur	Deepak
11	Pendkar Pooja Sunil	M.Sc II Year	Rajarshi Shahu Mahavidyalaya Latur	Pooja
12	Shaikh Arshafatema Pashamiya	M.Sc II Year	Rajarshi Shahu Mahavidyalaya Latur	Arshafema
13	Geeta Vyankat Dhok	B.Sc III Year	Rajarshi Shahu Mahavidyalaya Latur	Dhok
14	Shweta Deepak Kalbune	B.Sc I Year	Rajarshi Shahu Mahavidyalaya Latur	Pooja
15	Chaudhary Alisha Mushtaq	B.Sc II Year	Rajarshi Shahu Mahavidyalaya Latur	Alisha

16	Prajakta Ravindra Chavan	M.Sc II Year	Rajarshi Shahu Mahavidyalaya Latur	Prajakta
17	Patel Safura Mazhar Pasha	M.Sc I Year	Rajarshi Shahu Mahavidyalaya Latur	Safura
18	Mitali Sandeep Patange	B.Sc I Year	Rajarshi Shahu Mahavidyalaya Latur	Mitali
19	Survase Sakshi Santosh	B.Sc II Year	Rajarshi Shahu Mahavidyalaya Latur	Sakshi
20	Neha Nagnath Gore	B.Sc III Year	Rajarshi Shahu Mahavidyalaya Latur	Neha
21	Trupti Satish Waghmare	B.Sc II Year	Rajarshi Shahu Mahavidyalaya Latur	Trupti
22	Mahek Matin Shaikh	B.Sc II Year	Rajarshi Shahu Mahavidyalaya Latur	Mahek
23	Shweta Parmeshwar Thorat	B.Sc I Year	Rajarshi Shahu Mahavidyalaya Latur	Shweta
24	Kamble Sanket Hanuman	B.Sc II Year	Rajarshi Shahu Mahavidyalaya Latur	Sanket
25	Revankar Suraj Sanjay	Research Fellow	Rajarshi Shahu Mahavidyalaya Latur	Suraj
26	Gore Anjali Nagnath	B.Sc III Year	Rajarshi Shahu Mahavidyalaya Latur	Anjali
27	Nandani M. Kshirsagar	B.Sc III Year	Rajarshi Shahu Mahavidyalaya Latur	Nandani
28	Nilame Pritam Govind	M.Sc II Year	Rajarshi Shahu Mahavidyalaya Latur	Pritam
29	Dhanshree M. Jagtap	Research Fellow	Rajarshi Shahu Mahavidyalaya Latur	Dhanshree
30	Tanaya Chandrakant Naikwade	M.Sc II Year	Rajarshi Shahu Mahavidyalaya Latur	Tanaya

Date: 30.03.2026

Place: Latur

[Signature]
HoD



[Signature]
Principal
PRINCIPAL
Rajarshi Shahu Mahavidyalaya, Latur
(Autonomous)