

**Activity report for Certificate Course on Techniques in Molecular Biology (Level 2)**

<b>Name of activity</b>	Certificate Course on Techniques in Molecular Biology (Level 2)
<b>Objectives of the activity (maximum 40 words)</b>	1. In depth understanding of technical know-hows 2. Troubleshooting of various advanced molecular biology techniques
<b>Organizing department/s</b>	Department of Biotechnology and Microbiology
<b>Collaborative institute</b>	-
<b>Date ( DD / MM / YYYY )</b>	18 <sup>th</sup> July 2024 to 17 <sup>th</sup> April 2025
<b>Venue</b>	Department of Microbiology, VPM's B.N. Bandodkar College of Science (Autonomous)
<b>Mode</b>	Offline
<b>Details of Resource person (name, designation, institution)</b>	Dr. Jayashree Pawar Ms. Purvi Shah Dr. Ashwini Tilak
<b>Key Participants</b>	Student of T.Y.B.Sc. Microbiology
<b>Remarkable outcomes/ key take-away messages (max. three)</b>	Student was able to: 1. Understand the principle and steps of Southern Blotting and RNA extraction 2. Perform preparation of competent cells and transformation 3. Perform 16SrRNA gene sequence analysis
<b>Details of participants</b>	
Total Number	1
Outsiders	-
In-house	1
	Faculty members: 0  Students: 1
	Male: 0      Female: 1      Others: --
<b>Additional information</b>	Theory exam were conducted to assess the understanding of students


Name of Coordinator/ teacher in-charge: Dr. Jayashree Pawar, Ms. Purvi Shah, Dr. Ashwini Tilak


Two Geo tagged photos:



Attendance:

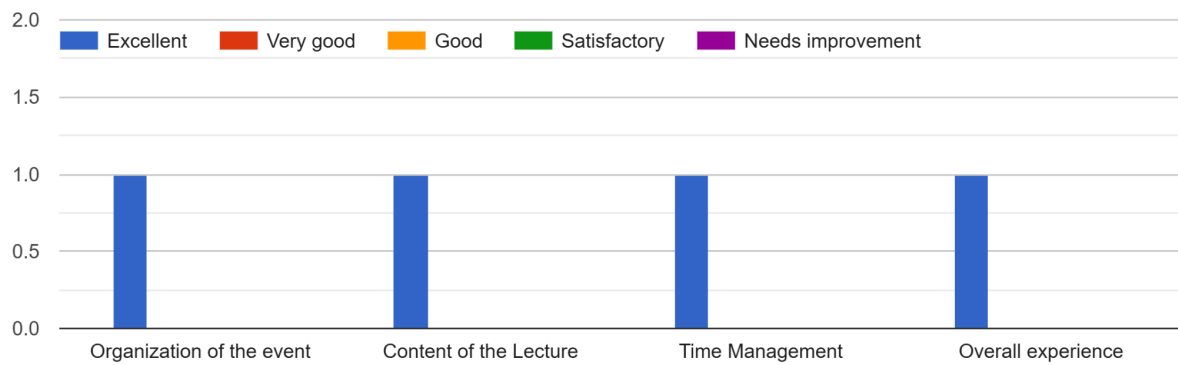
				18/1/24	19/1/24	20/1/24	22/1/24	23/1/24	24/1/24	25/1/24	31/1/24
1. Shubhada Jangam	2022420408	TYMB		+	+	+	+	+	+	+	+
	36+19			11/8/24	18/04/25		Exam	25/07/24	17/4/25		
				+	+		+	+	+		

  
 Head  
 Department of Biotechnology  
 VPM's B.N. Bandedkar College of Science (Autonomous)

  
 Head  
 Department of Microbiology  
 VPM's B.N. Bandedkar College of Science (Autonomous)

## Graphical representation of feed-back:

How did you find the certificate course? (Select any one among the five options)



## Brochure:

**V.P.M.'s B.N. BANDODKAR COLLEGE OF SCIENCE (AUTONOMOUS), THANE**  
**DEPARTMENT OF BIOTECHNOLOGY & MICROBIOLOGY**  
**CERTIFICATE COURSE ON TECHNIQUES IN MOLECULAR BIOLOGY**

**HIGHLIGHTS**

- Hands-on sessions
- In-depth understanding of technical know-hows
- Troubleshooting guidelines
- Participants will earn 3 credits after completion of course

**COURSE CONTENT**

- Extraction of total RNA
- Southern hybridization
- Competent cell preparation using calcium chloride
- Transformation of *Escherichia coli* DH5α
- Blue white selection
- Tutorial on 16S rRNA gene sequence analysis

**DURATION**  
18th July 2024 to 17th April 2025

**ELIGIBILITY**  
All teachers and students of biological sciences

**NUMBER OF SEATS**  
20 (First come, first serve basis)

**RESOURCE PERSONS**

Dr. Jayashree Pawar  
Ms. Purvi Shah  
Dr. Ashwini Tilak

**REGISTRATION DETAILS**

Gform link: <https://forms.gle/tFGq6Rg4VHms2RH8>  
Fees: Rs. 10,000/- (+18% GST)  
Mode of payment: Online Details would be shared on the registered mobile number and/or email-ID)  
Last date of registration: 7<sup>th</sup> December 2023

**VENUE**  
Department of Biotechnology, VPM's B. N. Bandodkar College of Science (Autonomous) Chendani Bunder Road, Near Cidco bus stop, Thane West.

**CONTACT**  
[bmb.molbio@gmail.com](mailto:bmb.molbio@gmail.com)

**Note:** Only those participants who qualify the examination will be awarded certificate.  
Fees do not include food and refreshments Fees  
will not be refunded

*Handwritten signatures and dates:*  
Dr. Jayashree Pawar 01/07/2024  
Ms. Purvi Shah 1-07-24  
Dr. Ashwini Tilak 1-07-24