VPM's B.N. Bandodkar College of Science (Autonomous), Thane

Name of activity	Hands on Training of Trypsinization for TYBSc Students			
	1. Understanding the Concept of Trypsinization:			
	To provide students with a clear understanding of the process of			
	trypsinization, including its scientific principles, applications in			
	cell culture, and its role in detaching adherent cells from culture			
	surfaces.			
	2. Mastering Cell Culturing Practices:			
	To give students practical experience in culturing cells,			
	including how to maintain cell lines, apply trypsinization, and			
Objectives of the	prepare cells for passaging or subculturing in various			
activity (maximum 40 words)	experiments.			
	3. Learning Cell Viability Assessment:			
	To enable students to assess the viability and health of cells			
	post-trypsinization through appropriate techniques, such as			
	using trypan blue exclusion or automated cell counters.			
	4. Exploring the Applications of Trypsinization in Research:			
	To help students understand the practical applications of			
	trypsinization in research fields such as cell biology,			
	biochemistry, and biomedical sciences, including its relevance			
	in drug testing, gene expression studies, and tissue engineering.			
Organizing				
department/s	Zoology			
Collaborative institute				
Date (DD/MM/M/M/M)	20/01/2025 at 08:00 am			
(DD/MM /YYYY) Venue	Department of Zoology VDM's D. N. Dandadkar Callaga Thora			
Mode	Department of Zoology, VPM's B. N. Bandodkar College, Thane.			
(Online/Offline/Hybrid)	Offline			
Details of Resource				
person	Dr. Abhay Morajkar, Assistant Professor,			
(name, designation,	VPM's B. N. Bandodkar College of Science, Thane.			
institute)				
Key Participants	TYBSc Zoology Students			

	Enhanced Practical Laboratory Skills:			
Remarkable outcomes/	Students develop proficiency in handling cell cultures and			
	performing trypsinization techniques, which are essential for a			
	wide range of biological and biomedical research activities. This			
				hands-on experience sharpens their lab skills, making them more
	competent and confident in a research setting.			
	2. Improved Understanding of Cell Culture Techniques			
	Through the practical training, students gain a deeper			
	key take-away	understanding of cell culturing processes, including the		
messages	importance of trypsinization in cell passaging, maintaining			
(max. three)	healthy cell lines, and ensuring the accuracy of experimental			
	results.			
	. Mastery of Trypsinization Protocols			
	Students become proficient in the correct procedures for			
	trypsinization, including the preparation of trypsin solutions, the			
	timing and conditions for detaching cells, and how to stop the			
	enzymatic activity, leading to more efficient and effective			
	culturing practices in their future experiments.			
Details of Teacher				
participants	M: 01 $F: 00$ $T: 01$			
Details of Student	M: 04 F: 21 T: 25			
participants				
Outsiders In-house	26			
III-IIOUSE	Faculty members: <b>01</b> Students: <b>25</b>			
	Male: 04 Female: 21			
	1. What is Trypsinization? Trypsinization is the process of using			
	the enzyme trypsin to detach adherent cells from the surface of culture vessels. It is essential for passaging cells in tissue culture, allowing researchers to maintain healthy cell lines.  2. Trypsin Mechanism: Explained how trypsin breaks down			
Additional information				
Additional information	proteins on the cell surface, particularly the proteins involved in			
	cell adhesion, allowing the cells to separate from the culture			
	surface. Understanding the mechanism will help students grasp			
1	why timing and conditions are crucial.			

Name of Coordinator	Dr. Abhay Morajkar
Flyer/ Notice	

## **Geo Tagged Photos:**





## **Attendance:**

	The Paris of the P	M	(2)
1.	Xaba Khan - 202142010	11 Show	N 8+THE
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v.	Sunt Parera	2022420315	Surti
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14-	Hopeda Idrism	2022420348	Garage
15.	Kajal Shama	2022420371	(pgy'a)
16-	Hasshad vaiti	2022420424	- Otrait
17.	Dariya Flor	2024420009	Danya.
18	Salmani Yasmeen shalik	2022420350	<u>Qalm</u>
19	Sandhya virendra Chauhar		Domolhya
20	Anisa Shamsher Shai	kh 2022420403	Arisa
	Shmetika Renuse	2022420474	Julie
21		2022420377	Roman
23	Parvati yadar	DONUMBER	Strake
	Sneha Gupla	2022420420	Vandana
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25	Riti Pal		01

## **Graphical Representation of Feedback**

