



**Dr. Ambedkar College, Deekshabhoomi ,Nagpur.**

**Department of Biochemistry & Biotechnology**

**Workshop on  
"Innovative Teaching Methods in Biological Sciences"**

**Date: 16<sup>th</sup> March 2024**

**Report**

**NOTICE**

All the teaching staff members belonging to the field of Biological Sciences are hereby informed that the Department of Biochemistry and Biotechnology, Dr. Ambedkar College, Nagpur is organizing a 2-hour Workshop on "Innovative Teaching methods in Biological Sciences" on **Saturday, 16<sup>th</sup> March 2024 at 11:00 am** in the Department of Biochemistry and Biotechnology. All the staff members (Senior Division) teaching Biological Sciences are requested to participate in this workshop on the above said date.

**Dr. U.J. Dongre**  
Head Department of Biochemistry  
& Biotechnology, Dr. Ambedkar College,  
Nagpur.

**HEAD  
DEPARTMENT OF  
BIOCHEMISTRY & BIOTECHNOLOGY  
DR. AMBEDKAR COLLEGE,  
DEEKSHA BHOOMI, NAGPUR**

**Dr. Mrs. B. A. Mehere**  
Principal,  
Dr. Ambedkar College,  
Nagpur.

**Date: March 16th**

**Time: 11:00 AM**

**Location: Department of Biochemistry and Biotechnology, Dr. Ambedkar College,  
Nagpur**

## **Introduction:**

The workshop on "Innovative Teaching Methods in Biological Sciences" was conducted on March 16th, at 11:00 AM in the Department of Biochemistry and Biotechnology, Dr. Ambedkar College, Nagpur. The workshop aimed to introduce and explore new teaching techniques and methodologies to enhance the learning experience in undergraduate biology education. The workshop was attended by 8 teachers from various departments of the college.

## **Objective:**

The primary objective of the workshop was to familiarize the participants with innovative teaching methods that could be effectively implemented in undergraduate biology education.

## **Workshop Overview:**

Introduction to Innovative Teaching Methods (11:00 AM - 11:30 AM):

The workshop commenced with an introduction to the significance of innovative teaching methods in undergraduate biology education.

Various innovative teaching techniques, including active learning, flipped classrooms, case-based learning, and concept mapping, were discussed.

Active Learning Strategies (11:30 AM - 12:30 PM):

This session focused on the concept of active learning and its implementation in undergraduate biology classrooms.

Strategies such as group discussions, problem-solving activities, and peer teaching were demonstrated and discussed.

Case-Based Learning (12:30 PM - 1:00 PM):

This session explored the use of case studies to promote critical thinking and problem-solving skills among undergraduate biology students.

Participants were provided with examples of case studies and were encouraged to develop their own.

Concept Mapping (1:00 PM - 1:30 PM):

The final session introduced the concept of concept mapping and its application in visualizing and organizing complex biological concepts.

Participants learned how to create effective concept maps and how to incorporate them into their teaching.

## **Outcome:**

The workshop successfully introduced the participants to various innovative teaching methods for undergraduate biology education. By the end of the workshop, participants gained the knowledge and skills necessary to implement active learning strategies, flipped classroom models, case-based learning, and concept mapping effectively. The interactive sessions provided an opportunity for participants to exchange ideas and experiences, fostering a collaborative learning environment.

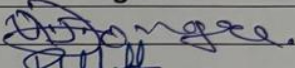

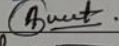
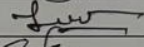
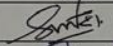
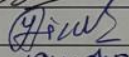
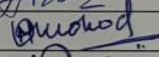
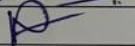
## Conclusion:

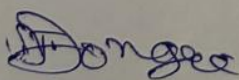
The workshop on "Innovative Teaching Methods in Biological Sciences" was highly beneficial and well-received by the participants. It provided valuable insights into incorporating innovative teaching techniques into undergraduate biology education. We believe that the knowledge gained from this workshop will significantly enhance the quality of teaching and learning in undergraduate biology classrooms.

## List of Participants

**Dr. Ambedkar College**  
Deekshabhoomi, Nagpur  
Department of Biochemistry & Biochemistry

Workshop on  
Innovative Teaching Methods in Biological Sciences  
16<sup>th</sup> March 2024  
Attendance

S.No.	Name of the Faculty member	Signature
1.	Dr. Ujjal Dongre	
2.	MS. Rita N. Lakkakul	
3.	Dr. Bhanu A. Kharat	
4.	Mr. Labhesh B. Pariteti	
5.	Dr. Suresh S. Suryawanshi	
6.	Mr. Pradip V. Hirapur	
7.	MS. Nikita Mohod	
8.	Dr. Pallavi Pantawane	
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Dr. U.J. Dongre  
Head Department of  
Biochemistry & Biotechnology

Dr. Mrs. B. A. Mehere  
Principal

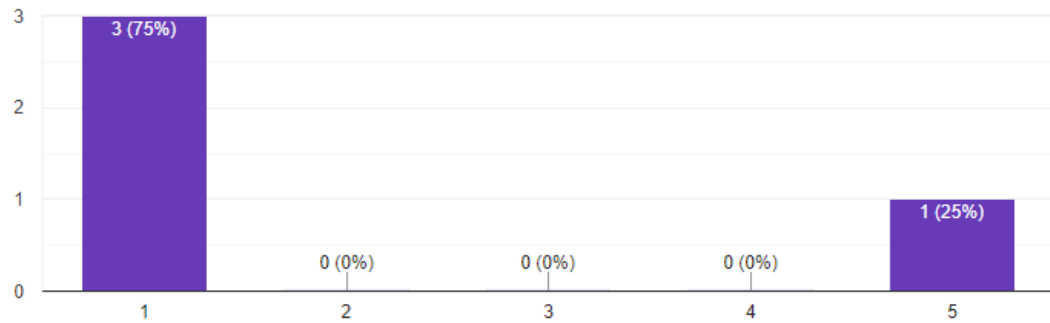
## Feedback:

### Workshop Content

How would you rate the relevance of the workshop content to your teaching practice?

 Copy

4 responses



Which aspects of the scientific teaching methods presented were most valuable to you?

4 responses

yes

Active learning

Scientific inquiry and blooms taxonomy and its application to help student reach a level where they can apply and analyze things in science rather than just remember and understand...

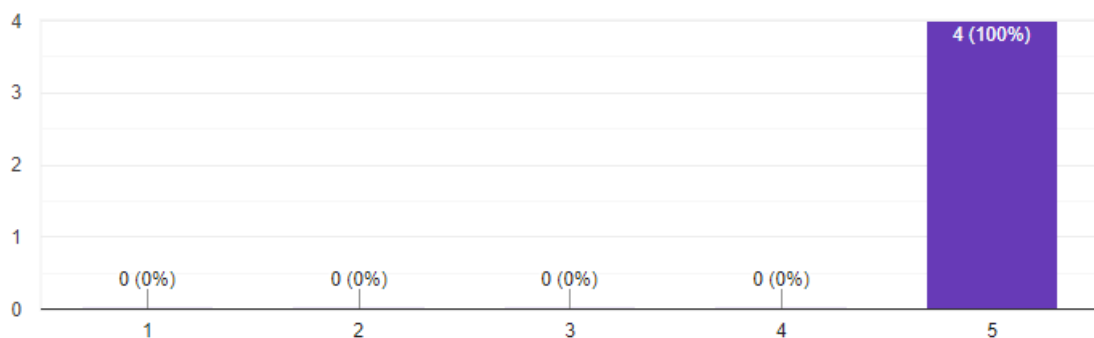
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### Workshop Presentation

How would you rate the clarity and organization of the presentations?

 Copy

4 responses



What elements of the presentation style did you find most engaging?

4 responses

best

The way of presentation

The example of enzymology was taken to explain the detail on how to create spark amongst the students and develop their critical thinking skills.. that was most provoking for me...

Use of graphics to reinforce idea

What challenges, if any, do you anticipate in applying these methods?

4 responses

none

Exam oriented mindset of the students

Students reverting back after the exercise can be a question ...

For applying these methods we need to apply the various design and ideas which will required and need of proper time and knowledge.

## Overall Experience

What was the most impactful takeaway from the workshop for you?

4 responses

good

Interactive teaching learning

Teaching methods are very helpful to create organizations in lessons plans and also help develop analytical skills among the students.

This type of teaching activity will improve the knowledge and activity of students

Would you recommend this workshop to colleagues?

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4 responses



● Yes  
● No  
● Maybe

# Certificate

r "Workshop Reflections" .pdf

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# CERTIFICATE

This certificate declares that

## Dr. D. N. Begde

has participated

in the workshop on Innovative Teaching Methods in  
Biology  
organised by the Department of Biochemistry & Biotechnology,  
**Dr. Ambedkar College, Nagpur**

on 16th March 2024

Certificate ID 20241603

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