Yashwantrao Chavan College of Science, Karad

Department of Microbiology

Best Practices-2019-20

Best Practice No. 1

1. **Title of the Practice**

   Enhancing Interactive Teaching through Advance Tools

2. **Objective of the Practice**

   This practice aims to improve interactive learning by incorporating advanced computer-based tools alongside traditional blackboard teaching. The primary goal is to enhance the understanding of complex in-vivo mechanisms, such as immunological responses, metabolic processes, and fermentative processes, using PowerPoint presentations and videos.

3. **The Context**

   The practice focuses on visualizing in-vivo concepts through advanced computer-based tools to elevate the teaching and learning experience. The Department of Microbiology has introduced projectors in classrooms and practical labs to facilitate attractive and interactive teaching.

4. **The Practice**

   In classrooms and labs, projectors are utilized to teach various biological events, particularly in-vivo processes, using engaging PowerPoint presentations and video graphics. This approach simplifies the understanding of complex biological phenomena by incorporating video visuals.
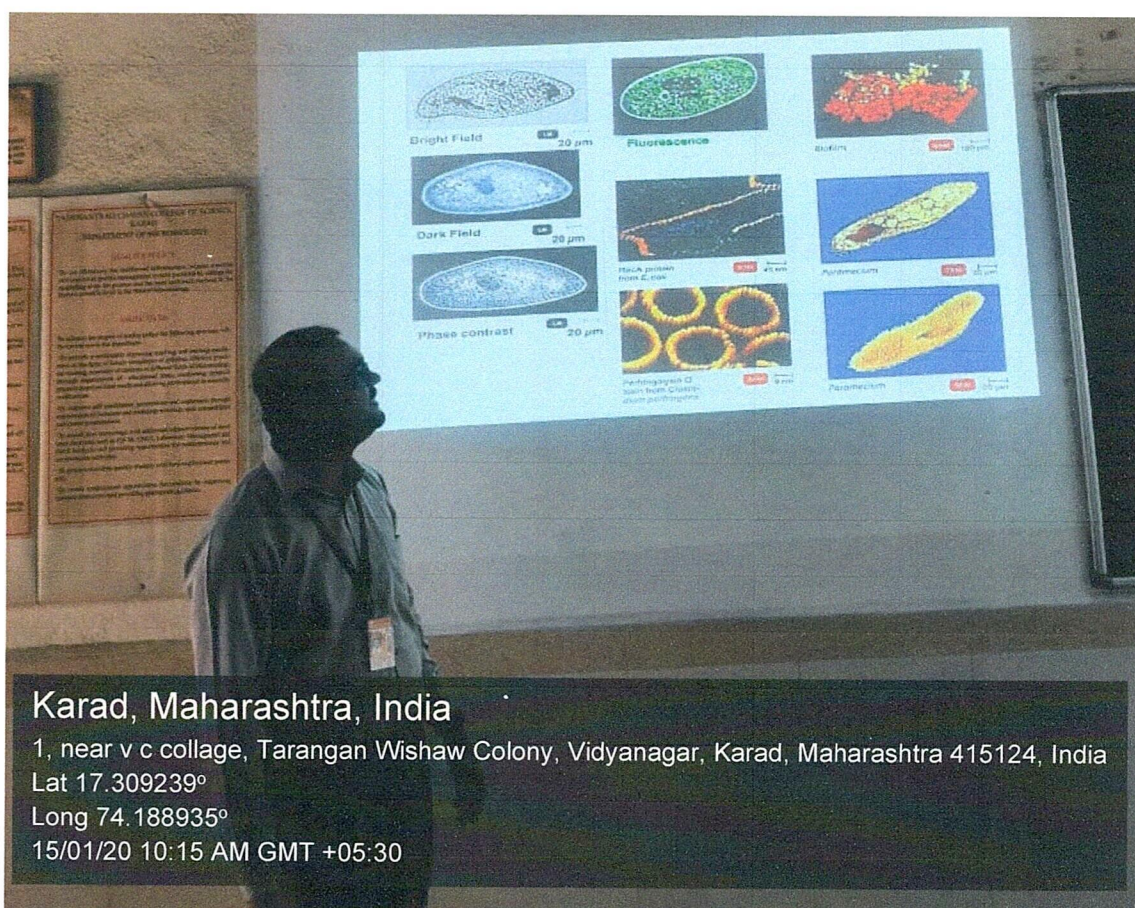
5. **Evidence of Success**

   The integration of PowerPoint presentations with audio-visual elements has made intricate concepts more accessible to students, leading to improved performance in examinations and assessments. Students have also utilized this technological feature to present their seminar and research findings. The high satisfaction among students with projector-based teaching underscores the success of this interactive approach using advanced tools.

6. Problems Encountered and Resources Required

A primary challenge is the absence of smart boards and consistent internet connectivity, both crucial for interactive and live demonstrations. Addressing this challenge requires allocating resources to acquire smart boards and ensuring a reliable internet connection, enhancing the overall effectiveness of the interactive teaching approach.

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