



Department of Biotechnology
Biology of Living Cells
Even Term
Innovative Teaching Learning (Pedagogy) Report

Name of the Faculty	Dr. Mohammed Shabab
Class	(Semester III 2 nd year)
Courses Taught	Biology of Living cells, General Course
Academic year	2024-2025
Title of Padagogy	Project and model making based learning: Biology of Living cells
Objective	Promote a deeper understanding of the structure and function of living cells through interactive and visual learning methods.
Methodology	<ul style="list-style-type: none">• I began with an introductory session using diagrams, videos and slides to explain the structure of plant and animal cells.• Used question-answer and discussion methods to assess prior knowledge.• Divide students into small groups (3–5 members).• Allowed choice of model type: 3D cell model (plant or animal), digital model, or analogy-based poster.• Groups created their models using available materials (e.g., clay, cardboard, recycled items, or digital tools).• Ensured models are accurate, labeled, and neat.• Each group presented their model to the class.• Students explained the function of each organelle and compare cell types.
Outcome	<ul style="list-style-type: none">• Students was able to demonstrate understanding of the structure and functions of living cells.• Encouraged Q&A to reinforce understanding.• Students learned about peer reviews and self-assessment.• Constructive feedback is shared with each group.• Students have identified major organelles in a cell and describe their structure and function.• Able to explain how the structure of each organelle contributes to its function.



- Work effectively in a team to plan, divide tasks, and complete the model.
- The activity enhances the student's communication and collaboration.
- Present the final model and explain its components confidently to the class.
- It Encouraged use of creativity, such as using colour coding, textures, or even movement (e.g., rotating nucleus).

Glimpses

