QUIZ PLATFORM METHODOLOGY

Mechanical Engineering Department

Introduction

The Quiz Platform Methodology is implemented in the Mechanical Engineering Department to enhance students' conceptual understanding, analytical thinking, and subject knowledge through continuous assessment. The online quiz platform enables faculty to conduct periodic quizzes related to core mechanical engineering subjects such as Thermodynamics, Fluid Mechanics, Manufacturing Processes, Machine Design, and Engineering Materials.

Objective

The main objective of the quiz platform is to strengthen students' theoretical knowledge and improve their ability to recall and apply engineering concepts quickly. It also supports Outcome Based Education (OBE) by assessing students' learning progress in an interactive and technology-enabled environment.

Implementation

Faculty members design quizzes based on the syllabus and course outcomes of various mechanical engineering subjects. These quizzes are conducted through digital platforms such as Google Forms, Learning Management Systems (LMS), or institutional quiz portals.

The quizzes may include:

- Multiple Choice Questions (MCQ)
- Concept-based questions
- Numerical problems
- Application-oriented questions

Students participate in these quizzes during or after classroom sessions, which helps in reinforcing important engineering concepts.

Benefits to Students

The quiz platform provides several academic benefits to students:

- Improves conceptual clarity in mechanical engineering subjects
- Encourages regular study habits
- Enhances problem-solving and analytical skills
- Provides immediate feedback on performance
- Increases student engagement in the learning process

Role of Faculty

Faculty members monitor quiz participation, evaluate student responses, and analyze performance data to identify learning gaps. Based on the results, additional support such as revision sessions, tutorials, or concept clarification classes may be provided.

Outcome

The implementation of the quiz platform methodology helps in improving students' academic performance, subject knowledge, and exam preparedness. It also promotes active learning,

continuous evaluation, and better attainment of course outcomes in the Mechanical Engineering program.