



**Department of Mechanical Engineering  
Academic Year 2021 – 2022 (Odd Semester)**

**Degree, Semester & Branch: V Semester B.E. Mechanical Engineering**

**Course Code & Title: ME8594 Dynamics of Machines**

**Name of the Faculty member (s): Dr.J.Jabinth, AP/Mechanical**

**Innovative Practice Description**

- **Unit / Topic:** Unit V / Gyroscope and Governors
- **Course Outcome:** CO5
- **Date:** 19.11.2021
- **Topic Learning Outcome:** TLO18, TLO19, TLO20
- **Activity Chosen:** Interactive online Quiz
- **Justification:** A quiz was planned to test the knowledge level of students in Gyroscope and governor. Quizziz app have interactive option for presenting in screen, so it is chosen for conducting quiz
- **Time Allotted for the Activity:** 30 seconds for each question (Total 10 questions)
- **Details of the Implementation:** Quizziz app is used for interactive online quiz. Students were asked to prepare topics from unit – V (Gyroscope and Governors) the previous day. Each question will be flashed on the screen and 30 seconds were given for completing the quiz. At the end of every question a scoreboard is show based on accuracy and speed of the students, which motivated the students to pick correct choice with fast response. Around 20 questions were asked in the quiz. At the end of the program, a leader board is presented listing the top scorers of the quiz program.
- **CO – PO / PSO mapping:**

PO	PO1	PO2	PO5	PO12	PSO2
CO5	3	2	3	3	1

(1 – Low      2 – Moderate      3 – High)

- **PO / PSO mapped:**

Innovative practice	PO1	PO2	PO5	PO12	PSO2
	3	2	3	3	1
<b>Justification for correlation</b>	The quiz is based on the knowledge gained by student after learning the topic.	In order to find solution students have to solve problem based on their knowledge	Students are using Quizziz app as a tool	Students have to continuously improve them by discussing the answers at the end of the quiz	Students can develop solutions by knowing basic methods to solve a problem



- **Images Screenshot of the practice:**



- **Reflective Critique:**

- ❖ *Feedback of practice from students and other stakeholders:*

Based on the feedback received from students, the quiz program was interesting to them and encouraged them to score more in quiz.

- ❖ ***Benefit of the practice:*** (E.g.: Outcome attainment would have increased due to innovative practice over conventional practice)  
Students can recall the concepts learnt in the class and find solution to the quiz questions.
- ❖ ***Challenges faced in implementation:***
  - All students must install Quizziz app in their mobile or laptop.
  - They have to use the code to join the quiz.
  - Internet connectivity problem.
  - Mobile not supporting.

References:

- ❖ <https://testbook.com/objective-questions/mcq-on-gyroscope--5eea6a0c39140f30f369e063>
- ❖ <https://www.sanfoundry.com/machine-dynamics-questions-answers-gyroscopic-couple/>
- ❖ <https://testbook.com/objective-questions/mcq-on-governors--5eea6a0c39140f30f369e085>
- ❖ <https://www.mechanicaltutorial.com/governor-objective-questions-and-answers-05>

**Signature of Faculty Member**

**HOD**