Department of Mechanical Engineering
Innovative Teaching Methods

Activity Title	Quiz
Faculty Name/Department	Mr. Mohan S R / Mech
Mapped Course Name & Code	ME3351 Engineering Mechanics
Date	20-09-2022
Benefitted Students (Year / Sem / Dept)	II / III / Mech
Topic	Basics on Mechanics
Description	Reading information as a way of learning does have its uses. But reading information and then taking a quiz is much more effective. So, quizzes help to retain information. Quizzes can promote deeper engagement with the content of Engineering Mechanics Basics. *(Rule: No passing Questions)*
Course Outcomes (CO)	CO 1: Illustrate the vectorial and scalar representation of forces and moments
Performance Indicator (PI)	1.3.1
Mail ID (for review)	mech.mohan@msajce-edu.in
Activity Photos	 

Topics/ Questions:

1. What is Engineering Mechanics?
   a) Study of bodies under motion without considering forces
   b) Application of mechanics to issues involving common engineering aspects
   c) Study of bodies only under rest
   d) Study of bodies only under motion
2. Which of the following is termed as an action of pull or push of a body at rest or motion?
   a) Torque
   b) Momentum
   c) Work
   d) Force
3. Which of the following is the condition for the three-force theorem in mechanics?
   a) The force system should be in equilibrium only
   b) The force systems should be non-coplanar
   c) The system should be co-planar, parallel
   d) The force system should be in equilibrium, co-planar, concurrent, or parallel
4. Which of the following is the SI unit of force?
   a) Kg m
   b) Kg m^2
   c) Kg m^2/s
   d) Kg m/s^2
5. What is a free-body diagram?
   a) It's a sketch of a moving body that shows internal forces of the body and reaction forces
   b) It's a sketch of an undisturbed body that shows external forces of the body
   c) It's a sketch of an isolated body that shows external forces of the body and reaction forces
   d) It's a sketch of a body in motion that shows bending forces of the body
6. When the surfaces of two bodies come in contact, there is a limited amount of resistance to sliding between them, which is known as _____
   a) Lubrication
   b) Friction
   c) Internal forces
   d) Attraction force
7. Which of the following forces do not cause the rotation?
   a) Non-Parallel
   b) Non-concurrent
   c) Parallel
   d) Concurrent

8. When can two forces be in equilibrium?
   a) They are equal in magnitude
   b) They are collinear
   c) They are opposite in direction
   d) All of the mentioned
9. The internal force in structures among the following is?
   a) Gravity force
   b) Compression force
   c) Impact force
   d) Bending force
10. Which of the following type of screws is used in the machines?
   a) Round-threaded
   b) Helical-threaded
   c) Rectangle-threaded
   d) Square-threaded
11. Which of the following contains moving parts?
   a) Beam
   b) Frames
   c) Machines
   d) Truss
12. Which of the following is the basic law for mechanics?
   a) Newton’s law of viscosity
   b) Parallelogram law
   c) Newton’s laws of motion
   d) Hooke’s law

Marks:

Group Name (if ITM is a group activity)	Reg No.	Topic	Marks
TEAM A	311821114001	Basics on Mechanics	20
	311821114002		
	311821114003		
	311821114004		
TEAM B	311821114005		0
	311821114006		
	311821114007		
	311821114009		
TEAM C	311821114010		20
	311821114011		
	311821114012		
	311821114014		
TEAM D	311821114015		10
	311821114016		
	311821114017		
	311821114018		
TEAM E	SYED MOHAMMED		20
	ABDUR RAHMAN J		
	SHAMMER AHAMED		
	MOHAMED ANWAR TA		
TEAM F	RASOOL MOHAMED		10
	MOHAMED SAMEEM P		
	CHANDRU		
	SWARUPA MALVAN		

Outcomes:

A quiz is a quick and informal assessment of student knowledge. Quizzes are often used to briefly test a students' level of comprehension regarding course material, providing teachers with insights into student progress and any existing knowledge gaps of the Engineering Mechanics basics. And also improves student's interest on the Internal Assessment Test.