



UNIVERSITI TEKNOLOGI MARA

MAE472: Fundamental of Mechanics.

Course Name (English)	Fundamental of Mechanics. APPROVED
Course Code	MAE472
MQF Credit	3
Course Description	The course introduces the basic principles of statics and dynamics. Mechanics of statics deals with equilibrium of bodies, i.e. bodies at rest and bodies moving with a constant velocity. It includes resultant and resolution of forces, equilibrium of a particle, force system resultant, equilibrium of rigid bodies, and moment of inertia. Mechanics of Dynamics deals with the accelerated motion of bodies. It includes kinematics and kinetics of a particle and of a rigid body. Kinematics discusses the relationship between displacement, velocity and acceleration against time. Kinetics covers the concepts of force and acceleration (Newton's laws of motion), energy and work, power, impulse and momentum, and projectiles.
Transferable Skills	Team Work, Analytical Skills,
Teaching Methodologies	Lectures, Tutorial, Discussion
CLO	CLO1 Apply the concepts and theories learned in solving mechanics problems. CLO2 Demonstrate communication skill in writing mathematical solutions of mechanics clearly and coherently. CLO3 Find solutions to the problems in static and dynamic mechanic
Pre-Requisite Courses	No course recommendations
Reading List	This Course does not have any book resources
Article/Paper List	This Course does not have any article/paper resources
Other References	This Course does not have any other resources