

Faculty of Engineering & Technology**Dynamics of rigid bodies****Information :****Course Code :** MEC261**Level :** Undergraduate**Course Hours :** 3.00- Hours**Department :** Mechatronics Engineering**Instructor Information :**

Title	Name	Office hours
Associate Professor	AMR MOHAMED METWALLY ISMAIEL	3
Assistant Lecturer	Amira Khaled Hasan Mohamed Elkodama	

Description :

Types of planar motion of rigid body; Kinematics of Rigid bodies: Translational, Rotational, and General Plane Motion Equations. Instantaneous center, Relative velocity and Relative acceleration. Kinetics of rigid bodies: Newton's laws and equations of motion. Principle of work and energy, Conservation of mechanical energy, Linear and angular impulse. Principle of impulse and momentum, Conservation of Momentum.