FUTURE UNIVERSITY IN EGYPT
جامعة المستقبل

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
Lecturer	Amr Mohamed Metwally Ismaiel	3
Teaching Assistant	Donia Waheed Mohamed Abdelmonem Saleem	

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.