

Faculty of Engineering & Technology

Dynamics of Rigid Bodies (Mechanics3)

Information :

Course Code : MEG	C 221	Level :	Undergraduate	Course Hours :	3.00- Hours			
Department : Department of Structural Engineering & Construction Management								
Instructor Information :								
Title		Name			Office hours			

Lecturer	Arafa Soliman Sobh Khalil Arafa	1
Teaching Assistant	Amira Khaled Hasan Mohamed Elkodama	

Description :

Types of planar motion of rigid body (R.B.), Angular velocity and velocity relation, Angular acceleration and acceleration relation, Equations of General planar motion of a R.B., Translational motion, Motion about a fixed axis, and General motion including friction, Principle of work and kinetic energy, Conservative forces and principle of conservation of mechanical energy, Linear and angular impulse, Principles of impulse and momentum, Impulsive forces, Inelastic and eccentric impact, Free undamped vibrations of R.B., Damped free vibrations, Forced damped and undamped vibrations of R.B.