

Faculty of Engineering & Technology**Mechanical Mechanisms****Information :****Course Code :** MEC360**Level :** Undergraduate**Course Hours :** 3.00- Hours**Department :** Mechatronics Engineering**Instructor Information :**

Title	Name	Office hours
Associate Professor	Hassan Mohamed Shams Eldin Elsayed Eleashy	3
Teaching Assistant	Mia Mohamed Fawzy Abdelhamid Alatawy	

Description :

Kinematics Fundamentals: geometry of motion and mechanism topology, Linkage and mechanisms analysis of position, velocity, and acceleration (using graphical, analytical and computer-assisted methods), Cam-follower mechanisms: design and analysis, Standard cams and equivalent mechanisms, Kinematics of gear trains: gears terminology, simple, compound, and planetary gear trains, Kinetics fundamentals: force analysis of mechanisms, Applications to engine balancing machines, Applications and use of Computers (using Solid Works) for Mechanism Simulation and Animation.