



AL IMAM MOHAMMAD IBN SAUD ISLAMIC UNIVERSITY  
COLLEGE OF ENGINEERING  
Department of Civil Engineering

<b>Course Information</b>	
Course Code and Name:	GE201: Statics
Credit Hours:	3 (3 Lecture + 1 Tutorial)
Prerequisites:	MATH106 Calculus II, PHYS118 Physics II, PHYS120 Physics II Lab.

<b>Course Description</b>
Forces, Moments, and Couples, Resultants of Force Systems, Equilibrium Analysis and Free-Body Diagrams, Analysis of Trusses and Frames, Shear-Force and Bending-Moment Distributions. Centroid, Center of Gravity, Moment of Inertia, Polar Moment of Inertia and Product of Inertia.

<b>Textbook</b>			
Title	Engineering Mechanics - Statics		
Authors	R.C. Hibbeler		
Publisher	Pearson	Year and Edition	2010, 12 <sup>th</sup> Edition in SI Units

<b>Course Contents</b>
General Principles
Force Vectors
Equilibrium of a Particle
Force System Resultants
Equilibrium of a Rigid Body
Structural Analysis
Internal Forces: Shear-Force and Bending-Moment Distributions
Center of Gravity and Centroid
Moments of Inertia

<b>Academic Coordinator</b>	<b>Signature</b>
Prof. Rafiq M. Choudhry	

Official Stamp

