

COE2001 Statics

	<u># of lectures</u>
Introduction	1
Forces and Particle Equilibrium	2
Components of a Force	
Lines of Action	
Moment of a Force, and of a couple; Resultants	6
Cross Products	
Moments, Couples, Moments about a line	
Equivalent systems	
Analysis of General Equilibrium Problems	6
Free-body Diagrams	
Fundamental Applications of Equilibrium Equations	
Interacting Bodies or Parts of a Structure	
Structural Applications and Distributed Loads	10
Plane Trusses	
Space Trusses	
Systems Containing Multiforce Members	
Centroids and Center of Gravity	1
Centroids	
Method of Composite Parts	
Friction	2
Exams	2
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Total	30