UNIVERSITY OF PETROLEUM & MINERALS DEPARTMENT OF CIVIL ENGINEERING

Structural Analysis I - CE 305 Course Outline

Text: Structural Analysis - Hibbeler.

Lecture	Chapter	Subject
1	1	Introduction
3	.2	Reactions (beams, trusses, simple frames, and arch type structures).
3	3	Shear and Moment Diagrams
3	4	Analysis of Trusses
4	5	Influence Lines
		EXAM
8	8	Deflections of Determinate Structures: Review of Direct Integration, Moment Area Method, Conjugate Beam Method, Virtual Work, Castigliano's Theorems, and Maxwell's Reciprocal Theorem.
5	7	Approximate Analysis of Statically Indeterminate Structures.
		EXAM
9	9	Analysis of Statically Indeterminate Structures: Deflection Superposition, Castigliano's Theorems, The Three-Moment Theorem, and The Slope-Deflection Method.
		EXAM
7	9	Analysis of Statically Indeterminate Structures: The Moment Distribution Method

Testing and Grading Policy

3 major exams 7	
Homework	60%
Final Exam	40%

Important Notice: No late homework will be accepted.

CE 305 Assignment # 1 problems Solve the following in the text: Problem 1-4 Problem 1-9 Problem 1-11 Problem 1-13 Problem

Problem 1-15