

CE325 - Engineering Mechanics II - Spring 2007

COURSE OUTLINE

WEEK	TOPICS	ASSIGNED READING	ASSIGNED PROBLEMS
1/8,10,12	Application of Vector Algebra.		
1/17*,19	Kinematics: Rectilinear and Cartesian Coordinates.	Sec 12/1-6	12/3,15,33,46,58 12/67,73,82,94,95
1/22,24*,26	Kinematics: Curvilinear Coordinates.	Sec 12/7-10	12/111,118,122,135,139 12/153,155,169,178,199
1/29,31**,2/2	Kinetics:Equation of Motion.	Sec 13/1-3	13/3,10,13,14,26 13/31,35,38,43,47
2/5,7*,9	Kinetics of a System of particles	Sec 13/4-6	13/57,58,62,67,70 13/81,86,101,106,111
2/12,14*,16	Work and Energy.	Sec 14/1-6	14/6,10,15,18,21 14/23,81,82,87,91
2/21*,23	Impulse and Momentum.	Sec 15/1-7	15/2,27,31,34,37 15/57,67,81,87,110
2/26,28**,3/2	Plane rigid body kinematics.	Sec 16/1-4	16/7,9,22,35,38 16/49,53,66,71,102
3/5,7*,9	Kinematics of rigid bodies in plane motion.	Sec 16/5-8	16/135,138,141,145,149
3/19,21,23	Kinetics of rigid bodies in plane motion.	Sec 17/1-5	17/5,14,30,38 17/50,61,69,110
3/26,28*,30	Work & Energy of Plane Rigid Bodies.	Sec 18/1-5	18/9,13,23,30 18/42,50,54,58
4/2,4**,6	Impulse & Momentum of Plane Rigid Bodies.	Sec 19/1-4	19/15,19,23,26 19/29,39,45,49
4/9,11*,13	3D kinematics of Rigid Bodies	Sec 20/1-4	20/7,13,15,34,47
4/16,18*,20	3D kinetics of Rigid Bodies	Sec 21/1-3	21/2,14,57,59 21/63,65,67,74
4/23,25,27**	3D kinetics of Rigid Bodies	Sec 21/4-6	

* \implies quiz on that day (1/17,1/24,2/7,2/14,2/21,3/7,3/28,4/11,4/18)

** \implies examination on that day (1/31,2/28,4/4,4/27)

Grading Policy:

4 examinations (16% each)	64%
6/9 quizzes	24%
Homework	12%

Assigned problems were taken from the reference book, "Dynamics, Eleventh Edition" by R. C. Hibbeler.

Warning: Not doing any homework problems can be hazardous to your quiz and examination scores.

Class website: www-classes.usc.edu/engr/ce/325