

King Fahd University of Petroleum & Minerals

Civil Engineering Department

CE 201 Statics (Section 1)

Second Semester **2007-2008 (072)**

Text : **Engineering Mechanics/Statics – R.C. Hibbeler (10th Edition)**

Prerequisite: **PHYS 101**

Faculty: Dr. Shamshad Ahmad

Office Hours: **Sat, Mon, Wed (9 AM to 11 AM)**

Office : 16-262

Tel. # : 2572

e-mail: shamsad@kfupm.edu.sa

Lecture Number	Date	Subject	Section
1	Feb. 16	Introduction, Scalars & Vectors	1.1-1.2,2.1-2.2
2	Feb. 18	Vector Addition of Forces	2.3
3	Feb. 20	Addition of Coplaner Forces	2.4
4	Feb. 23	Cartesian Vectors	2.5-2.6
5	Feb. 25	Position Vectors, Force along a Line	2.7-2.8
6	Feb. 27	Dot Product	2.9
7	Mar. 01	Equilibrium of a Particle & Free-Body Diagrams	3.1-3.2
8	Mar. 03	Coplaner Force Systems	3.3
9	Mar. 05	Three-Dimensional Force Systems	3.4
10	Mar. 08	Three-Dimensional Force Systems	3.4(cont.)
11	Mar. 10	Cross Product, Moment of a Force	4.1-4.2
12	Mar. 12	Moment of a Force & Principle of Moments	4.3-4.4
13	Mar. 15	Moment about an axis	4.5
14	Mar. 17	Moment about an axis	4.5(cont.)
15	Mar. 19	Moment of a Couple	4.6
16	Mar. 22	Force and Couple Systems	4.7-4.8
17	Mar. 24	Distributed Loading	4.10
18	Mar. 26	Equilibrium of a Rigid Body	5.1-5.2
19	Mar. 29	Equilibrium of a Rigid Body (2-D)	5.3
20	Mar. 31	Equilibrium of a Rigid Body (2-D), Two & Three-Force Members	5.3(cont.), 5.4
21	Apr. 02	Equilibrium of a Rigid Body (3-D)	5.5-5.6
22	Apr. 05	Equilibrium of a Rigid Body (3-D)	5.6(cont.)
23	Apr. 07	Simple Trusses	6.1
24	Apr. 09	The Method of Joints	6.2
25	Apr. 19	The Method of Joints	6.2(cont.)
26	Apr. 21	Zero Force Members	6.3
27	Apr. 23	The Method of Sections	6.4
28	Apr. 26	Frames and Machines	6.6
29	Apr. 28	Frames and Machines	6.6(cont.)
30	Apr. 30	Frames and Machines	6.6(cont.)

31	May 03	Internal Forces (2-D)	7.1
32	May 05	Internal Forces (3-D)	7.1(cont.)
33	May 07	Shear and Moment Equations & Diagrams	7.2
34	May 10	Shear and Moment Equations & Diagrams	7.2(cont.)
35	May 12	Shear and Moment Equations & Diagrams	7.2(cont.)
36	May 14	Shear and Moment Equations & Diagrams	7.2(cont.)
37	May 17	Dry Friction	8.1
38	May 19	Problems involving Dry Friction	8.2
39	May 21	Problems involving Dry Friction	8.2(cont.)
40	May 24	Problems involving Dry Friction	8.2(cont.)
41	May 26	Center of Gravity & Centroid (No Applications)	9.1-9.2
42	May 28	Center of Gravity for Composite Bodies	9.3
43	May 31	Center of Gravity for Composite Bodies	9.3(cont.)
44	Jun. 02	Moment of Inertia for Areas, Parallel- Axis Theorem	10.1-10.2
45	Jun. 04	Moment of Inertia for Composite Areas	10.5

Grade Distribution:

• Home work and attendance	=	10%
• Quizzes (in class)	=	10%
• First Major Exam	=	20%
• Second Major Exam	=	25%
• Final Exam	=	35%

Total		100%

Note:

- *Homework* will be assigned in *every week*.
- There will be a *class quiz* in every *alternate week*.
- *Examination* will be *after every 5 weeks*.
- The University regulations regarding excessive absence will be strictly adhered to in this course (**9 unexcused absence → DN grade**).
- Each assignment **MUST** be submitted according to the Standard Format.
- Each assignment **MUST** have a cover page.
- Exam. Dates will be announced later.