



#### d.General and Transferable Skills: :

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| 1 - | Deal with others according to the rules of professional ethic. |
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#### Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Properties of areas	5	3	2
Elastic behavior of simple elements under axial loading	10	6	4
Elastic behavior of simple elements under bending loading	10	6	4
Elastic behavior of simple elements under twisting loading	10	6	4
Combined stresses and Mohr's circle	10	6	4
Principal stresses	10	6	4
Beam deflection	10	6	4
Statically indeterminate beams	10	6	4

#### Teaching And Learning Methodologies :

Interactive Lecturing

Discussion

Problem Solving

#### Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Assignment	10.00		
Final Exam	40.00		
Mid- Exam	30.00		
Participation	10.00		
Quizzes	10.00		

#### Recommended books :

- 1- Beer, F.B. & Johnston, E.R. "Mechanics of Materials", McGraw-Hill Book Company, 2008.
- 2- Popov, E.P., "Mechanics of Materials", Prentice Hall Int., London, 2007.
- 3- Dobrovolsky, Machine elements, MIR Publisher Co. 2007.