

09ENG 6.5 – STRUCTURES - VI

Written by Administrator

Saturday, 31 October 2009 17:57 - Last Updated Saturday, 31 October 2009 17:58

CONTACT PERIODS : : 3 (LECTURE) PER WEEK

DURATION OF EXAM : 3 HRS

EXAM MARKS : : 100

PROGRESSIVE MARKS : : 50

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Objective:

To give an introduction to the design of steel structures.

Outline:

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Design of simple and eccentric riveted and welded connections.

Design of tension and compression members in trusses.

Design of built-up columns (lacing only)

Design of slab base (no guzzeted base) and simple column and footing connection details

Design of laterally restrained beams (simple and compound)

Provision for fire protection for steel structures – relevant code provision

Note: The teacher is also expected to expound the structural concepts introduced in non-mathematical terms with examples and application in architectural design.

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References:

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1) “Design of steel Structures” by Ramachandra

2) "Design of Steel Structures" by Kazimi and Jindal

3) "IS 800 – 1984, IS 883-1970"

4) "IS special publication for the design of steel structures"

[SP-6 (1)]