DESIGN OF STEEL STRUCTURES
SPRING 2017

INSTRUCTOR:

Mehdi Ahmadizadeh, PhD
418 in Civil Engineering Department, ext 4241, email: ahmadizadeh@sharif.edu

LECTURE HOURS:

Sun 1:00 – 3:00 pm

OFFICE HOURS:

Sun, Tue   9:00 – 10:00 am

REFERENCES:

Salmon, C.G. and Johnson, J.E. *Steel Structures: Design and Behavior*, Prentice Hall.
McCormac, J.C., *Structural Steel Design*, Prentice Hall.
Segui, W.T. *LRFD Steel Design*, CL-Engineering.
Iranian Structural Steel Design Code
AISC Manual of Steel Construction

COURSE OBJECTIVES:

To understand the behavior and the basics of the design of structural elements in typical steel buildings.

To use ASD and LRFD Code design procedures to design the principal structural elements of steel structures.

GRADING POLICY:

Homework Assignments (10-15%)
Midterm Exam (35-40%)
Final Three-Hour Comprehensive Exam (50-55%)

ACADEMIC INTEGRITY AND CONDUCT:

All submitted work must represent personal effort. Disciplinary action will be taken against the students that do not follow academic integrity guidelines.

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COURSE OUTLINE:

	Topic	Sections	Lectures
1	Introduction		SSD I
2	Structural Steel Design Codes		SSD I
3	Design of Tension Members		SSD I
4	Design of Compression Members		SSD I
5	Design of Beams		SSD I
6	Design of Continuous Beams		SSD I
7	Design of Members Subjected to Bending and Axial Force		SSD I
8	Special Topics in Design of Beams and Columns		SSD II
9	Design of Welded Connections		SSD II
10	Design of Bolted Connections		SSD II
11	Design of Commonly Used Building Connections		SSD II
12	Design of Built-up Wide Flange Sections and Plate Girders		SSD II
13	Design of Composite Beams and Columns		SSD II

TENTATIVE EXAMINATION SCHEDULE:

Exam	Material	Date and Time
Midterm	TBA	Sunday 3/2/96 (Tentative)
Final	Comprehensive	Finals Week

EXAMINATION FORMAT:

Course Examinations are closed book, but note sheets of size A4 (1 in midterm, and 2 in final) plus a book of structural steel sections are allowed.

COURSE WEBSITE:

http://sina.sharif.edu/~ahmadizadeh/courses/ststeeldes-ii/

CORRESPONDENCE:

Correspondence via email or posted on the course website is considered received and observed by all students. Please update your email address in your university personal profile to ensure the receipt of the emails sent to you, and check the course website frequently.