TOROS ÜNİVERSİTESİ

Faculty Of Engıneerıng
Cıvıl Engıneerıng (Englısh)

Course Information

STEEL STRUCTURES					
Code	**Semester**	**Theoretical**	**Practice**	**National Credit**	**ECTS Credit**
		Hour / Week			
CVE401	Fall	3	0	3	6

Prerequisites and co-requisites	NONE
Language of instruction	Turkish
Type	Required
Level of Course	Bachelor's
Lecturer	H. Turgay Atınç
Mode of Delivery	Face to Face
Suggested Subject	NONE
Professional practise (internship)	None
Objectives of the Course	Analysis and design of steel structures
Contents of the Course	Fundamental concepts of steel structure design; Tension and compression members; Connection design; Computation of pin, bolt and weld; Beams and connections; Truss and diagonal beams; Roof constructions; Columns; Beam-column connections.

Learning Outcomes of Course

#	Learning Outcomes
1	Knows steel structure system
2	Computes loads of tension and compression members
3	Performs computation of steel beam and support loads
4	Solves truss member problem

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Design principles of steel constructions	Teach with theory and application
2	Description of tensile and compression members	Teach with theory and application
3	Computation methods of steel beams	Teach with theory and application
4	Numerical applications	Teach with theory and application
5	Beam supports and connections	Teach with theory and application
6	Computation of connections	Teach with theory and application
7	Numerical applications	Teach with theory and application
8	Truss members and solution methods	Teach with theory and application
9	Mid-term exam	
10	Computation methods of diagonal beam	Teach with theory and application
11	Description of roof constructions	Teach with theory and application
12	Roof members and connection computations	Teach with theory and application

13	Columns and computation methods	Teach with theory and application
14	Column beam connections	Teach with theory and application
15	Numerical applications	Teach with theory and application
16	Final Exam	

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	Çelik Yapılar, Hilmi Deren, Erdoğan Uzgider, Filiz Piroğlu, Özden Çağlayan, Çağlayan Kitabevi, İstanbul, 2008		
2	Çelik Yapılar, Zafer Öztürk, BİRSEN Yayınevi, İstanbul, 2008		

Method of Assessment

#	Weight	Work Type	Work Title
1	40%	Mid-Term Exam	Mid-Term Exam
2	60%	Final Exam	Final Exam

Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1	Knows steel structure system	1	1
2	Computes loads of tension and compression members	2	1
3	Performs computation of steel beam and support loads	2	1
4	Solves truss member problem	2	2

PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

Work Load Details

#	Type of Work	Quantity	Time (Hour)	Work Load
1	Course Duration	14	3	42
2	Course Duration Except Class (Preliminary Study, Enhancement)	14	4	56
3	Presentation and Seminar Preparation	0	0	0
4	Web Research, Library and Archival Work	0	0	0
5	Document/Information Listing	0	0	0
6	Workshop	0	0	0
7	Preparation for Midterm Exam	1	12	12
8	Midterm Exam	1	3	3
9	Quiz	0	0	0
10	Homework	0	0	0
11	Midterm Project	0	0	0
12	Midterm Exercise	0	0	0
13	Final Project	0	0	0
14	Final Exercise	0	0	0
15	Preparation for Final Exam	1	12	12
16	Final Exam	1	3	3
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