TOROS ÜNİVERSİTESİ

Vocatıonal School
Constructıon Technology

Course Information

STEEL STRUCTURES					
Code	**Semester**	**Theoretical**	**Practice**	**National Credit**	**ECTS Credit**
		Hour / Week			
ITP202	Spring	3	0	3	4

Prerequisites and co-requisites	none
Language of instruction	Turkish
Type	Required
Level of Course	Associate
Lecturer	Lect. H. Turgay Atınç
Mode of Delivery	Face to Face
Suggested Subject	none
Professional practise (internship)	None
Objectives of the Course	Explanation of the joining elements and techniques for the steel elements to be able to work together with steel elements, carrier system provision according to international and national standard and technical specification rules
Contents of the Course	Introducing the structural steel types and joining elements, and introducing the bolt and welded joints in accordance with associate degree education level. Explanation of welding techniques and types. Elasticity calculations in plaster / bending bars.Basınç bars.Case systems, calculation and projecting example

Learning Outcomes of Course

#	Learning Outcomes
1	Evaluates the relationship between industry and construction industry.
2	Explains the importance of steel as a semi-prefabricated element
3	Evaluates the necessity of source, correct source and source control.
4	It shows the relation of production-control
5	Describes what should be in a safe steel structure
6	It establishes the manufacturing-assembly order.
7	In earthquake areas, it evaluates the importance of lightweight construction.
8	Explains the importance of light steel roof in industrial constructions

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Building Steel, Steel Tests, Behaviors and Styles, Safety Stresses	Expression
2	Bullets and rivets	Expression
3	Calculation principles of bulleted combinations and sampling	Expression
4	Welding and welding types and welding techniques	Expression
5	Principles of calculation of source combination and sampling	Expression
6	Tension bars account and withdrawal bar combinations	Expression
7	Pressure rods and buckling	Expression

8	Midterm	Midterm
9	Pressure bars account and combinations	Expression
10	Bending rods, section account	Expression
11	Bending rods, section account	Expression
12	Bending rods, section calculations In hull elements, combinations of cutting and cutting effect	Expression
13	Bar calculations of isostatic steel cage systems	Expression
14	Isostatic steel lattice systems, knot points	Expression
15	Course summary and summary	Expression
16	Final Exam	Final Exam

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	Steel Constructions (Deren, Uzgider)		
2	Image		

Method of Assessment

#	Weight	Work Type	Work Title
1	20%	Mid-Term Exam	Mid-Term Exam
2	20%	Mid-Term Exam	Mid-Term Exam
3	60%	Final Exam	Final Exam

Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1	Evaluates the relationship between industry and construction industry.	2,4	1,2,3
2	Explains the importance of steel as a semi-prefabricated element	2,4	1,2,3
3	Evaluates the necessity of source, correct source and source control.	2,4	1,2,3
4	It shows the relation of production-control	2,4	1,2,3
5	Describes what should be in a safe steel structure	2,4	1,2,3
6	It establishes the manufacturing-assembly order.	2,4	1,2,3
7	In earthquake areas, it evaluates the importance of lightweight construction.	2,4	1,2,3
8	Explains the importance of light steel roof in industrial constructions	2,4	1,2,3

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	2	28
3	Presentation and Seminar Preparation	0	0	0
4	Web Research, Library and Archival Work	14	1	14
5	Document/Information Listing	1	8	8
6	Workshop	0	0	0
7	Preparation for Midterm Exam	2	2	4
8	Midterm Exam	2	2	4

9	Quiz	0	0	0
10	Homework	1	10	10
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	8	8
16	Final Exam	1	2	2
				120