

TOROS ÜNİVERSİTESİ

Faculty Of Engineering
Civil Engineering (English)

Course Information

INTRODUCTION TO STRUCTURAL DYNAMICS					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
CVE439	Fall	3	0	3	3

Prerequisites and co-requisites	NONE
Language of instruction	Turkish
Type	Elective
Level of Course	Bachelor's
Lecturer	Lect. HÜSEYİN TURGAY ATINÇ
Mode of Delivery	Face to Face
Suggested Subject	NONE
Professional practise (internship)	None
Objectives of the Course	Solution of structural systems and hyperstatic systems
Contents of the Course	Load and moment equilibrium; Solution methods of isostatic systems; Systems with three hinges; Frames; Thermal, deformation effect; Lines of action.

Learning Outcomes of Course

#	Learning Outcomes
1	Defines solution methods of isostatic systems
2	Solves isostatic systems
3	Defines solution method of three hinge systems
4	Draws cross section effects of frames
5	Draws lines of action diagrams of systems

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Load and moment equilibrium	Teach with theory and application
2	Description of isostatic systems	Teach with theory and application
3	Solution methods of isostatic systems	Teach with theory and application
4	Numerical applications	Teach with theory and application
5	Three hinge systems	Teach with theory and application
6	Solution methods of three hinge systems	Teach with theory and application
7	Numerical applications	Teach with theory and application
8	Solution methods of frames	Teach with theory and application
9	Mid-term exam	
10	Cross section action of frame systems	Teach with theory and application
11	Numerical applications	Teach with theory and application
12	Thermal deformation effects	Teach with theory and application

13	Lines of action	Teach with theory and application
14	Moment diagrams of lines of action	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	Yapı Statiği 1, İbrahim Ekiz, BİRSEN Yayınevi, İstanbul, 1999		
2	Yapı Statiği Cilt 1, Adnan Çakıroğlu, Enver Çetmeli, Beta Basım Yayın Dağıtım A.Ş., İstanbul, 1995		

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	Defines solution methods of isostatic systems	1	1
2	Solves isostatic systems	2	1,2
3	Defines solution method of three hinge systems	2	1
4	Draws cross section effects of frames	3	1
5	Draws lines of action diagrams of systems	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	3	42
3	Presentation and Seminar Preparation	0	0	0
4	Web Research, Library and Archival Work	2	1	2
5	Document/Information Listing	0	0	0
6	Workshop	0	0	0
7	Preparation for Midterm Exam	1	1	1
8	Midterm Exam	1	1	1
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	1	1
16	Final Exam	1	1	1

