TOROS ÜNİVERSİTESİ

Faculty Of Engıneerıng
Cıvıl Engıneerıng (Englısh)

Course Information

STATICS					
Code	**Semester**	**Theoretical**	**Practice**	**National Credit**	**ECTS Credit**
		Hour / Week			
CVE104	Spring	3	0	3	5

Prerequisites and co-requisites	
Language of instruction	Turkish
Type	Required
Level of Course	Bachelor's
Lecturer	PROF. DR. ORHAN AKSOĞAN
Mode of Delivery	Face to Face
Suggested Subject	NONE
Professional practise (internship)	None
Objectives of the Course	Investigation of the basic principles and solution techniques of static
Contents of the Course	Basic principles of static; load concept;Determination of central gravity; Plane carrying systems; Truss systems;Cables and applications

Learning Outcomes of Course

#	Learning Outcomes
1	Designs a system, a component or a process in order to meet the needs of various engineering problems within technical, economic, environmental, manufacturability, sustainability limitations.
2	Identifies proper sources of information and databases, reaches them and uses them efficiently.
3	Follows the advancements in science and technology being aware of the necessity of lifelong learning and continuously improves her/himself.
4	Uses the computers and information technologies related with civil engineering actively.
5	Gains the ability to communicate effectively both orally and in writing.
6	Communicates using technical drawing
7	Has an understanding of entrepreneurship and innovation subjects, and is knowledgeable of contemporary issues.

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Description of the fundamental assumptions of static	Teach with theory and application
2	Vectors, principle of equilibrium and applications	Teach with theory and application
3	Center of the gravity of masses and applications	Teach with theory and application
4	Plane carrying systems, supports, support reactions and computation of support reactions	Teach with theory and application
5	Numerical applications	Teach with theory and application
6	Plane truss systems, descriptions and solution methods	Teach with theory and application
7	Numerical applications	Teach with theory and application
8	Mid-term exam	
9	Truss system applications	Teach with theory and application

10	Description of cables and classifications	Teach with theory and application
11	Solution methods of cables	Teach with theory and application
12	Applications	Teach with theory and application
13	Moment of inertia	Teach with theory and application
14	Numerical applications	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	Çözümlü Statik Problemleri, Hasan Engin, Ertaç Ergüven, İTÜ Yayını, İstanbul 1987		
2	Statik, Mehmet Bakioğlu, Birsen Yayınevi, 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	Designs a system, a component or a process in order to meet the needs of various engineering problems within technical, economic, environmental, manufacturability, sustainability limitations.	1	1,2
2	Identifies proper sources of information and databases, reaches them and uses them efficiently.	1	1,2
3	Follows the advancements in science and technology being aware of the necessity of lifelong learning and continuously improves her/himself.	1	1,2
4	Uses the computers and information technologies related with civil engineering actively.	1	1,2
5	Gains the ability to communicate effectively both orally and in writing.	1	1,2
6	Communicates using technical drawing	1	1,2
7	Has an understanding of entrepreneurship and innovation subjects, and is knowledgeable of contemporary issues.	1	1,2

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	4	4
8	Midterm Exam	1	4	4

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	0	0	0
16	Final Exam	0	0	0
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