

TOROS ÜNİVERSİTESİ

Vocational School
Construction Technology

Course Information

MECHANICS-STATICS					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
ITP122	Spring	3	0	3	3

Prerequisites and co-requisites	none
Language of instruction	Turkish
Type	Required
Level of Course	Associate
Lecturer	Lect. H.Turgay ATINÇ
Mode of Delivery	Face to Face
Suggested Subject	none
Professional practise (internship)	None
Objectives of the Course	To provide students to understand the structure and equilibrium relations of the students who see Structural Science education at the associate degree level. Prepare for structure analysis and dimensioning skills
Contents of the Course	To give information about force, vector, resultant force and equilibrium in rigid bodies. Introduction and examination of simple carrier systems. Concept of friction and its applications. Explanation of concept of moment. Explanation of principle, basic approach and calculation method of structure analysis.

Learning Outcomes of Course

#	Learning Outcomes
1	Explains the importance of mathematics-physics and mechanics relation
2	It shows gravity, balance and precaution.
3	Your hypothesis and imagination explain the contribution of technical problem solving
4	Equally appraised the place in our lives.
5	It shows the influence of construction science on economic and social life
6	Evaluates structure and balance with social development
7	It clarifies technical problems with a logical approach

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Definition of mechanical-static science, basic concepts and principles	Expression
2	Statistic of material points	Expression
3	Mathematical operations with vectors and vectors	Expression
4	Equilibrium of rigid bodies, equivalent force systems and moment concept	Expression
5	Balance of plane systems and center of gravity account	Expression
6	Horizontal and vertical equilibrium and moment balance in plane systems	Expression
7	Spatial stability and sampling of rigid bodies	Expression
8	Midterm	Midterm

9	Sprung forces, center of gravity	Expression
10	Investigation of bearing systems	Expression
11	Investigation of carrier systems	Expression
12	Friction and tilting moment in the plane	Expression
13	Friction in inclined plane	Expression
14	Section moment of inertia calculation	Expression
15	Topic	Expression
16	Final Exam	Last exam

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1			

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	Explains the importance of mathematics-physics and mechanics relation	2,5	1,2,3
2	It shows gravity, balance and precaution.	2,5	1,2,3
3	Your hypothesis and imagination explain the contribution of technical problem solving	2,5	1,2,3
4	Equally appraised the place in our lives.	2,5	1,2,3
5	It shows the influence of construction science on economic and social life	2,5	1,2,3
6	Evaluates structure and balance with social development	2,5	1,2,3
7	It clarifies technical problems with a logical approach	2,5	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	1	2	2
5	Document/Information Listing	1	2	2
6	Workshop	0	0	0
7	Preparation for Midterm Exam	2	4	8
8	Midterm Exam	2	1	2
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	5	5
16	Final Exam	1	1	1
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