AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Statics								
Course Code	BSM201		Couse Level	First Cycle (Bachelor's Degree)					
ECTS Credit	3	Workload	74 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	Provide students to understand the basic principles of static which they will use in engineering design and make them to be able to solve and analyze a static problem.								
Course Content	Basic principles of static (loads, balance equation, bearing types, delivery systems, isostatic and indeterminate systems), analyze of static problems, analyze of loads in buildings, beams, analysis of trusses and frames, analyze of determinate systems.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Problem Solving								
Name of Lecturer(s)	Prof. İbrahim YALÇIN								

Prerequisites & Co-requisities	
Prerequisite	FİZ161

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading	
1	Lecture notes of the lecturer

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction of Static of Materials (Basic concepts, basic principles of static)
2	Theoretical	Resultant of plane forces system(Components of forces, moment of forces)
3	Theoretical	Equilibrium of rigid bodies(Two-dimensional structures, bearing types, the balance equations)
4	Theoretical	Gravity center and geometric center
5	Theoretical	Inertia moment
6	Theoretical	Friction
7	Theoretical	Midterm Exam
8	Theoretical	Classification of loads, snow and ice load, wind load
9	Theoretical	Water and earth pressure
10	Theoretical	Carrier system and beams
11	Theoretical	Lattice beam systems.
12	Theoretical	Frames
13	Theoretical	Internal forces and cross section effects
14	Theoretical	Indeterminate systems.
15	Theoretical	Practice Exam
16	Theoretical	Final Exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Midterm Examination	1	8	1	9
Final Examination	1	8	1	9
			Total Workload (Hours)	74
			[Total Workload (Hours) / 25*] = **ECTS**	3
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	To be able to use the static principles for static analysis
2	To be abla to detect and analyze the basic data that belongs to static in engineering design
3	To be abla to identify and solve the problems of static.
4	Analyze hyperstatic systems
5	To have information about classification of loads, snow and ice load, wind load