

MM 108 Introduction to Mechanical Engineering				DEPARTMENT of MECHANICAL ENGINEERING					
Semester	Methods of Education							Credits	
	Lecture	Recit.	Lab.	Project/Field Study	Homework	Other	Total	Credit	ECTS Credit
2	28	-	-	-	17	5	50	2	2.0
Language	Turkish								
Compulsory / Elective	Compulsory								
Prerequisites	None								
Course Contents	History of mechanical engineering, its areas of interest and its relationship with the other engineering disciplines. Sub-disciplines of mechanical engineering, design, materials, mechanical and thermal sciences. Emerging technologies and latest trends in mechanical engineering. Skills necessary for a degree in mechanical engineering and curricula. Typical mechanical engineering projects and problems. Engineering problem solving techniques and their applications to some problems. Importance of written, oral and electronic communications. Importance of creative thinking, problem solution, lifelong learning and team work. Library use, computer use, internet and other sources of information. Use of computers in mechanical engineering. Career opportunities in mechanical engineering. Professionalism and ethics. Technical and legal responsibilities of mechanical engineers. Current legislature. Professional societies. Engineering and industrial applications including side visits.								
Course Objectives	To train students about history of mechanical engineering, sub-disciplines of mechanical engineering, skills necessary for a degree in mechanical engineering and curricula, and career opportunities in mechanical engineering.								
Learning Outcomes and Competences	Giving the students, coming to Department of Mechanical Engineering, fundamental information about mechanical engineering.								
Textbook and /or Reference	An Introduction to Mechanical Engineering, Jonathan Wickert, 2nd Ed., Thomson								
Assessment Criteria						If any, mark as (x)		Percentage (%)	
	Midterm Exams					X		50	
	Quizzes								
	Homeworks					X		5	
	Projects								
	Term Paper								
	Laboratory Work								
	Other					X		5	
	Final Exam					X		40	
Instructors	Assist.Prof. Oguz TURGUT, Instructor Dr. Abuzer OZSUNAR								
Week	Subject								
1	The Mechanical Engineering Profession								
2	The Mechanical Engineering Profession								
3	Problem Solving and Communication Skills								
4	Problem Solving and Communication Skills								
5	Forces in Structures and Machines								
6	Forces in Structures and Machines								
7	Materials and Stresses								
8	Materials and Stresses (Midterm I)								
9	Fluid Engineering								
10	Fluid Engineering								
11	Thermal and Energy Systems								
12	Thermal and Energy Systems								
13	Motion and Power Transmission								
14	Mechanical Design (Midterm II)								