

ANTALYA BİLİM UNIVERSITY
COLLEGE OF ENGINEERING AND NATURAL SCIENCE
DEPARTMENT OF MECHANICAL ENGINEERING
2022 - 2023 ACADEMIC YEAR CURRICULUM

FRESHMAN							
1	Fall Semester	Theory	Practice	Credits	ECTS	Pre-requisite	Co-requisite
MATH 101	CALCULUS I	4	2	5	6	-	-
PHYS 101	PHYSICS I	3	0	3	4	-	PHYL 101*
PHYL 101	PHYSICS I LABORATORY	0	0	1	2	-	PHYS 101*
CHM 101	GENERAL CHEMISTRY	3	2	4	5	-	-
ME 121	ENGINEERING DRAWING I	3	0	2	3	-	-
CS 101	INTRODUCTION TO PROGRAMMING I	3	0	4	6	-	-
ME 101	INTRODUCTION TO MECHANICAL ENGINEERING	2	0	2	2	-	-
TURK 101	TURKISH LANGUAGE I	2	0	2	2	-	-
TOTAL		20	4	23	30		

2	Spring Semester	Theory	Practice	Credits	ECTS	Pre-requisite	Co-requisite
MATH 102	CALCULUS II	4	2	5	6	MATH 101*	-
PHYS 102	PHYSICS II	3	0	3	4	-	PHYL 102*
PHYL 102	PHYSICS II LABORATORY	0	0	1	2	-	PHYS 102*
MATH 210	LINEAR ALGEBRA	4	2	5	5	-	-
ME 122	ENGINEERING DRAWING II	0	1	2	3	ME 121	-
ME 112	STATICS (MECHANICS I)	3	0	3	5	-	-
ME 206	FUNDAMENTALS OF ELECTRICS AND ELECTRONICS	2	0	3	3	-	-
TURK 102	TURKISH LANGUAGE II	2	0	2	2	-	-
TOTAL		18	5	24	30		

COURSES	NUMBER OF COURSES	CREDITS	ECTS
CORE COURSES	5	12	16
GENERAL COURSES	11	35	44
AREA ELECTIVE COURSES	0	0	0
NON AREA ELECTIVE COURSES	0	0	0
1st YEAR TOTAL	16	47	60

SOPHOMORE							
3	Fall Semester	Theory	Practice	Credits	ECTS	Pre-requisite	Co-requisite
ME 211	STRENGTH OF MATERIALS I	3	0	3	5	ME 112	-
ME 213	DYNAMICS (MECHANICS II)	3	0	3	5	-	-
ME 221	MATERIALS SCIENCE	2	0	3	5	-	-
ME 241	THERMODYNAMICS I	3	0	3	5	-	-
HIST 101	ATATURK'S PRINCIPLES AND REVOLUTION HISTORY I	2	0	2	2	-	-
ACE 101	INTRODUCTION TO ACADEMIC WRITING AND READING	4	0	4	3	-	-
MATH 202	DIFFERENTIAL EQUATIONS	4	0	4	5	MATH 102*,MAT 210*	-
TOTAL		21	0	22	30		

4	Spring Semester	Theory	Practice	Credits	ECTS	Pre-requisite	Co-requisite
ME 204	MEASUREMENT TECHNIQUES	2	1	3	5	-	-
ME 212	STRENGTH OF MATERIALS II	3	0	3	5	ME 211	-
ME 214	FLUID MECHANICS I	3	0	3	5	-	-
ME 222	DESIGN AND MANUFACTURING I	3	0	3	5	-	-
ME 242	THERMODYNAMICS II	3	0	3	5	ME 241	-
HIST 102	ATATURK'S PRINCIPLES AND REVOLUTION HISTORY II	2	0	2	2	-	-
ACE 103	PRESENTATION SKILLS	4	0	4	3	-	-
TOTAL		20	1	21	30		

COURSES	NUMBER OF COURSES	CREDITS	ECTS
CORE COURSES	9	27	45
GENERAL COURSES	3	8	9
AREA ELECTIVE COURSES	2	8	6
NON AREA ELECTIVE COURSES	0	0	0
2nd YEAR TOTAL	14	43	60

JUNIOR							
5 Fall Semester		Theory	Practice	Credits	ECTS	Pre-requisite	Co-requisite
ME 311	FLUID MECHANICS II	3	0	3	5	ME 214	-
ME 321	MACHINE ELEMENTS I	3	0	3	5	-	-
ME 323	DESIGN AND MANUFACTURING II	3	0	3	5	ME 222	-
ME 341	HEAT TRANSFER I	3	0	3	5		-
ME 301	SUMMER INTERNSHIP I	0	2	0	5	-	-
MATH 330	NUMERICAL ANALYSIS FOR ENGINEERING	4	2	5	5	MATH 101*, MATH 210*	-
TOTAL		16	4	17	30		

6 Spring Semester		Theory	Practice	Credits	ECTS	Pre-requisite	Co-requisite
ME 322	MACHINE ELEMENTS II	3	0	3	5	ME 321	
ME 342	HEAT TRANSFER II	3	0	3	5	ME 341	
ME 352	MECHANICAL VIBRATIONS	3	0	3	5		
ME 354	MECHANISMS	3	0	3	5		
MEAE 302	DEPARTMENT ELECTIVE I	3	0	3	5		
MEAE 304	DEPARTMENT ELECTIVE II	3	0	3	5		
TOTAL		18	0	18	30		

COURSES	NUMBER OF COURSES	CREDITS	ECTS
CORE COURSES	9	24	45
GENERAL COURSES	1	5	5
AREA ELECTIVE COURSES	2	6	10
NON AREA ELECTIVE COURSES	0	0	0
3rd YEAR TOTAL	12	35	60

SENIOR							
7 Fall Semester		Theory	Practice	Credits	ECTS	Pre-requisite	Co-requisite
ME 453	SYSTEM DYNAMICS AND CONTROL	3	0	3	6		-
ME 401	SUMMER INTERNSHIP II	0	2	0	5	ME 301*	-
ENEC 200	ENGINEERING ECONOMICS	3	0	3	4	-	-
ENWH 401	WORKER'S HEALTH AND WORK SAFETY I	2	0	2	2	-	-
MEAE 401	DEPARTMENT ELECTIVE III	3	0	3	5		
USD 100	NON AREA ELECTIVE	3	0	3	3	-	-
MATH 211	PROBABILITY AND STATISTICS FOR ENGINEERING	3	0	3	5	-	-
TOTAL		17	2	17	30		

8 Spring Semester		Theory	Practice	Credits	ECTS	Pre-requisite	Co-requisite
ME 402	SENIOR PROJECT	0	6	0	6	Explained below.	
ENWH 402	WORKER'S HEALTH AND WORK SAFETY II	2	0	2	2	ENWH 401	-
ENIN 404	INOVATION AND ENTREPRENEURSHIP	2	0	2	2	-	-
USD 100	NON AREA ELECTIVE	3	0	3	3	-	-
ENAE 402	AREA ELECTIVE I	3	0	3	5		
ENAE 404	AREA ELECTIVE II	3	0	3	5		
MEAE 406	DEPARTMENT ELECTIVE IV	3	0	3	5		
KPL 101	CAREER PLANNING	2	0	1	2		
TOTAL		18	6	17	30		

COURSES	NUMBER OF COURSES	CREDITS	ECTS
CORE COURSES	3	3	17
GENERAL COURSES	6	14	17
AREA ELECTIVE COURSES	4	12	20
NON AREA ELECTIVE COURSES	2	6	6
4th YEAR TOTAL	15	35	60

NUMBER OF COURSES AND TOTAL CREDITS	NUMBER OF COURSES 57	CREDITS 160	ECTS 240
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DEPARTMENTAL ELECTIVES		Theory	Practice	Credits	ECTS	Pre-requisite	Co-requisite
6. SEMESTER MEAE 302, MEAE 304							
ME 322	MATERIALS HANDLING	3	0	3	5	-	-
ME 324	COMPUTER AIDED MODELLING	3	0	3	5	-	-
ME 342	TURBINES	3	0	3	5	-	-
ME 344	HEAT EXCHANGES	3	0	3	5	ME 342	-
ME 352	INTRODUCTION TO ROBOTICS	3	0	3	5	-	-
ME 354	MECHATRONICS	3	0	3	5	-	-
ME 356	GROUND VEHICLE DYNAMICS	3	0	3	5	-	-
7. and 8. SEMESTERS: MEAE 401, MEAE 406							
ME 401	INTRODUCTION TO FINITE ELEMENT METHODS	3	0	3	5	-	-
ME 411	INTRODUCTION TO FRACTURE MECHANICS	3	0	3	5	-	-
ME 431	HEATING VENTILATION AND AIR CONDITIONING	3	0	3	5	-	-
ME 402	ELECTRIC MACHINERY	3	0	3	5	-	-
ME 412	STRUCTURAL ANALYSIS	3	0	3	5	-	-
ME 422	DESIGN FOR MANUFACTURING AND ASSEMBLY						
ME 424	METROLOGY	3	0	3	5	-	-
ME 432	SOLAR ENERGY	3	0	3	5	-	-

AREA ELECTIVES		Theory	Practice	Credits	ECTS	Pre-requisite	Co-requisite
ENIE 410	DIGITAL TRANSFORMATION PARADOX	3	0	3	5	-	-
ENIE 430	INTRODUCTION TO FUZZY LOGIC	3	0	3	5	-	-

ENIE 440	DIGITAL TRANSFORMATION AND TECHNOLOGY MANAGEMENT	3	0	3	5	-	-
ENIE 450	DECISION SUPPORT TECHNIQUES IN HEALTH INDUSTRY	3	0	3	5	-	-
ENCS 401	WEB PROGRAMMING	3	0	3	5	-	-
ENCS 402	GRAPH THEORY	3	0	3	5	-	-
ENME 402	SIMULATION OF DYNAMIC SYSTEMS	3	0	3	5	-	-
ENME 404	MODERN MANUFACTURING METHODS	3	0	3	5	-	-
ENME 406	RENEWABLE ENERGY SYSTEMS	3	0	3	5	-	-
ENCE 401	ENGINEERING FOR SUSTAINABLE DEVELOPMENT	3	0	3	5	-	-
ENCE 402	INTELLIGENT TRANSPORTATION SYSTEMS	3	0	3	5	-	-
ENCE 404	ENVIRONMENTAL ENGINEERING	3	0	3	5	-	-
ENEE 301	LASERS	3	0	3	5	-	-
ENEE 303	BIOMEDICAL IMAGING	3	0	3	5	-	-
ENEE 302	ELECTRICAL INSTALLATIONS	3	0	3	5	-	-
ENEE 304	INTRODUCTION TO SOLAR ENERGY ENGINEERING	3	0	3	5	-	-

EXPLANATIONS:

PRE and CO-REQUISTIES FOR ME SENIOR PROJECT

1.Prequestie: 1. Prerequisite In order to select this course, students have to be successful all the main (ME Course Code)Mechanical Engineering Courses (Except ME 301 Summer Internship I and ME 401 Summer Internship II courses)

* For the pre and core requisites of the common courses of the Engineering Faculty, the updated curriculum of the relevant departments that offered the course should be consult.