



Alanya Alaaddin Keykubat Üniversitesi

RAFET KAYIS FACULTY OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

MAKİNE MÜHENDİSLİĞİ (İNG.)

1.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
MEC 101	INTRODUCTION TO MECHANICAL ENGINEERING	2+0+0	Compulsory	3
MEC 103	TECHNICAL DRAWING	2+2+0	Compulsory	7
MEC 105	PHYSICS I	3+0+1	Compulsory	5
MEC 107	MATHEMATICS I	4+0+0	Compulsory	5
MEC 109	INTRODUCTION TO COMPUTER AND INFOMATION SYSTEMS	1+1+0	Compulsory	2
MEC 111	CHEMISTRY	3+0+0	Compulsory	4
TDB 101	TURKISH LANGUAGE I	2+0+0	Compulsory	2
SEC 101	ELECTIVE COURSE I (OUT OF AREA)	2+0+0	Elective	2
			Total ECTS	30
Course Groups				
KRP 101	CARRIER PLANNING	2+0+0	Compulsory	2
SEC 101.1	HISTORY OF ART	2+0+0	Elective	2
SEC 101.10	BASKETBALL	2+0+0	Elective	2
SEC 101.11	TENNIS	2+0+0	Elective	2
SEC 101.12	TABLE TENNIS	2+0+0	Elective	2
SEC 101.13	FOLK DANCES	2+0+0	Elective	2
SEC 101.14	MUSIC CULTURE	2+0+0	Elective	2
SEC 101.15	ARTS&PAINTING	2+0+0	Elective	2
SEC 101.16	THEATRE AND CINEMA	2+0+0	Elective	2
SEC 101.17	HEALTHY LIVING	2+0+0	Elective	2
SEC 101.18	NUTRITION	2+0+0	Elective	2
SEC 101.19	MEDIA LITERACY	2+0+0	Elective	2
SEC 101.2	HISTORY AND PHILOSOPHY OF SCIENCE	2+0+0	Elective	2
SEC 101.20	MATHEMATICAL ESTHETICS	2+0+0	Elective	2
SEC 101.21	INDUSTRIAL DESIGN	2+0+0	Elective	2
SEC 101.22	BASIC PHOTOGRAPHY	2+0+0	Elective	2
SEC 101.23	SURFING	2+0+0	Elective	2
SEC 101.24	JAPANESE I	2+0+0	Elective	2
SEC 101.25	JAPANESE II	2+0+0	Elective	2
SEC 101.26	MYTHOLOGY	2+0+0	Elective	2
SEC 101.27	ANCIENT CITY	2+0+0	Elective	2
SEC 101.28	SOCIOLOGY	2+0+0	Elective	2
SEC 101.29	PHILOSOPHY	2+0+0	Elective	2
SEC 101.3	DISASTER AWARENESS	2+0+0	Elective	2
SEC 101.30	ANCIENT DNA: HISTORY OF THE PAST	2+0+0	Elective	2
SEC 101.31	GENETIC HERITAGE	2+0+0	Elective	2
SEC 101.32	MODERN GENETIC APPLICATIONS: GENE CLONING	2+0+0	Elective	2
SEC 101.33	FOOD AND FOOD CULTURE	2+0+0	Elective	2
SEC 101.34	DIET AND HEALTH	2+0+0	Elective	2
SEC 101.35	TRADITIONAL FOODS	2+0+0	Elective	2
SEC 101.36	ORGANIC AGRICULTE	2+0+0	Elective	2
SEC 101.4	ELOQUENT SPEECH	2+0+0	Elective	2
SEC 101.5	BASIC FIRST AID AND EMERGENCY	2+0+0	Elective	2
SEC 101.6	ARCHERY	2+0+0	Elective	2
SEC 101.7	BOXING, KARATE AND TAEKWONDO	2+0+0	Elective	2
SEC 101.8	FOOTBALL	2+0+0	Elective	2
SEC 101.9	VOLLEYBALL	2+0+0	Elective	2
2.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
MEC 102	STATICS	3+0+0	Compulsory	5
MEC 104	COMPUTER AIDED TECHNICAL DRAWING	2+2+0	Compulsory	5
MEC 106	FUNDAMENTALS OF ELECTRICAL - ELECTRONICAL ENGINEERING	2+0+0	Compulsory	3
MEC 108	MATHEMATICS II	4+0+0	Compulsory	5
MEC 110	INTRODUCTION TO SCIENTIFIC PROGRAMMING	2+2+0	Compulsory	5
MEC 112	PHYSICS II	3+0+1	Compulsory	5
TDB 102	TURKISH LANGUAGE II	2+0+0	Compulsory	2
			Total ECTS	30

3.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
ATA 101	ATATÜRK'S PRINCIPLES AND REVOLUTIONS I	2+0+0	Compulsory	2
MEC 201	STRENGTH OF MATERIALS I	3+0+0	Compulsory	5
MEC 203	DYNAMICS	4+0+0	Compulsory	6
MEC 205	THERMODYNAMICS I	3+0+0	Compulsory	5
MEC 207	MATERIAL SCIENCE	4+0+0	Compulsory	5
MEC 209	DIFFERENTIAL EQUATIONS	4+0+0	Compulsory	5
FOR2GÜZ	FOR2GÜZ	0+0+0	Elective	0
SEC 201	ELECTIVE COURSE II (OUT OF AREA)	2+0+0	Elective	2

Total ECTS **30**

Course Groups				
FOR 201	EDUCATION	3+0+0	Elective	4
FOR 203	TEACHING PRINCIPLES AND METHODS	3+0+0	Elective	4
SEC 201.1	HISTORY OF ART	2+0+0	Elective	2
SEC 201.10	BASKETBALL	2+0+0	Elective	2
SEC 201.11	TENNIS	2+0+0	Elective	2
SEC 201.12	TABLE TENNIS	2+0+0	Elective	2
SEC 201.13	FOLK DANCE	2+0+0	Elective	2
SEC 201.14	MUSIC CULTURE	2+0+0	Elective	2
SEC 201.15	ARTS&PAINTING	2+0+0	Elective	2
SEC 201.16	THEATRE AND CINEMA	2+0+0	Elective	2
SEC 201.17	HEALTHY LIVING	2+0+0	Elective	2
SEC 201.18	NUTRITION	2+0+0	Elective	2
SEC 201.19	MEDIA LITERACY	2+0+0	Elective	2
SEC 201.2	HISTORY AND PHILOSOPHY OF SCIENCE	2+0+0	Elective	2
SEC 201.20	MATHEMATICAL ESTHETICS	2+0+0	Elective	2
SEC 201.21	INDUSTRIAL DESIGN	2+0+0	Elective	2
SEC 201.22	BASIC PHOTOGRAPHY	2+0+0	Elective	2
SEC 201.23	SURFING	2+0+0	Elective	2
SEC 201.24	JAPANESE I	2+0+0	Elective	2
SEC 201.25	JAPANESE II	2+0+0	Elective	2
SEC 201.26	MYTHOLOGY	2+0+0	Elective	2
SEC 201.27	ANCIENT CITY	2+0+0	Elective	2
SEC 201.28	SOCIOLOGY	2+0+0	Elective	2
SEC 201.29	PHILOSOPHY	2+0+0	Elective	2
SEC 201.3	DISASTER AWARENESS	2+0+0	Elective	2
SEC 201.30	ANCIENT DNA: HISTORY OF THE PAST	2+0+0	Elective	2
SEC 201.31	GENETIC HERITAGE	2+0+0	Elective	2
SEC 201.32	MODERN GENETIC APPLICATIONS: GENE CLONING	2+0+0	Elective	2
SEC 201.33	FOOD AND FOOD CULTURE	2+0+0	Elective	2
SEC 201.34	DIET AND HEALTH	2+0+0	Elective	2
SEC 201.35	TRADITIONAL FOODS	2+0+0	Elective	2
SEC 201.36	ORGANIC AGRICULTURE	2+0+0	Elective	2
SEC 201.4	ELOQUENT SPEECH	2+0+0	Elective	2
SEC 201.6	ARCHERY	2+0+0	Elective	2
SEC 201.7	BOXING, KARATE AND TAEKWONDO	2+0+0	Elective	2
SEC 201.8	FOOTBALL	2+0+0	Elective	2
SEC 201.9	VOLLEYBALL	2+0+0	Elective	2

4.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
ATA 102	ATATÜRK'S PRINCIPLES AND REVOLUTIONS II	2+0+0	Compulsory	2
MEC 202	STRENGTH OF MATERIALS II	3+0+0	Compulsory	5
MEC 204	FLUID MECHANICS I	3+0+0	Compulsory	5
MEC 206	THERMODYNAMICS II	3+0+0	Compulsory	5
MEC 208	NUMERICAL METHODS	3+0+0	Compulsory	4
MEC 210	INTERNAL COMBUSTION ENGINES	3+0+0	Compulsory	5
FOR2BAHAR	FOR2BAHAR	0+0+0	Elective	0
SEC 202	ELECTIVE COURSE III (TECHNICAL COURSE)	2+2+0	Elective	4

Total ECTS **30**

Course Groups				
FOR 202	CLASS MANAGEMENT	2+0+0	Elective	3
FOR 204	SPECIAL TEACHING METHODS	3+0+0	Elective	4
SEC 202.1	INTRODUCTION TO FINITE ELEMENT METHODS	2+2+0	Elective	4
SEC 202.2	MATHEMATICAL TOOLS FOR MECHANICAL ENGINEERS	2+2+0	Elective	4
SEC 202.3	INTRODUCTION TO AUTOMOTIVE ENGINEERING	2+2+0	Elective	4
SEC 204.4	COMPUTER AIDED MATERIAL DESIGN	2+2+0	Elective	4

5.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
MEC 301	INTERNSHIP I	0+0+0	Compulsory	2
MEC 303	FLUID MECHANICS II	3+0+0	Compulsory	5
MEC 305	MACHINE ELEMENTS I	3+0+0	Compulsory	5
MEC 307	MANUFACTURING PROCESSES I	3+0+0	Compulsory	5
MEC 309	THEORY OF MACHINES I	3+0+0	Compulsory	5
MEC 311	RENEWABLE ENERGY	2+0+1	Compulsory	4
FOR3GÜZ	FOR3GÜZ	0+0+0	Elective	0
SEC 301	ELECTIVE COURSE III (DESIGN COURSE)	2+0+2	Elective	6

Total ECTS **32**

Course Groups

FOR 301	GUIDANCE AND SPECIAL EDUCATION	3+0+0	Elective	4
FOR 303	ASSESSMENT AND EVALUATION IN EDUCATION	3+0+0	Elective	4
SEC 301.1	COMPUTER AIDED DESIGN	2+0+2	Elective	6
SEC 301.2	COMPUTER AIDED STRUCTURAL ANALYSIS	2+0+2	Elective	6
SEC 301.3	COMPUTATIONAL FLUID DYNAMICS	2+0+2	Elective	6
SEC 301.4	COMPUTER AIDED MANUFACTURING	2+0+2	Elective	6

6.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
MEC 302	HEAT TRANSFER	4+0+0	Compulsory	6
MEC 304	MACHINE ELEMENTS II	3+0+0	Compulsory	5
MEC 306	MANUFACTURING PROCESSES II	3+0+0	Compulsory	5
MEC 308	THEORY OF MACHINES II	3+0+0	Compulsory	5
FOR3BAHAR	FOR3BAHAR	0+0+0	Elective	0
SEC 302	ELECTIVE COURSE V (TECHNICAL COURSE)	3+0+0	Elective	3
SEC 304	ELECTIVECOURSE VI (DESIGN COURSE)	2+0+2	Elective	6

Total ECTS **30**

Course Groups

FOR 302	EDUCATION PSYCHOLOGY	3+0+0	Elective	4
FOR 304	TEACHING TECHNOLOGIES	2+0+0	Elective	3
SEC 302.1	ENERGY EFFICIENCY	3+0+0	Compulsory	3
SEC 302.2	PIPELINE ENGINEERING	3+0+0	Elective	3
SEC 302.3	ENGINEERING METROLOGY AND QUALITY CONTROL	3+0+0	Compulsory	3
SEC 302.4	BASIC DIE TECHNOLOGIES	3+0+0	Compulsory	3
SEC 304.1	APPLIED THERMODYNAMICS	2+0+2	Elective	6
SEC 304.2	APPLIED HEAT TRANSFER	2+0+2	Elective	6
SEC 304.3	HYDRAULIC AND PNEUMATIC CIRCUITS	2+0+2	Compulsory	6
SEC 304.4	MECHANICS OF FIBER-REINFORCED COMP.	2+0+2	Elective	6

7.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
ISG 401	OCCUPATIONAL HEALTH AND SAFETY I	2+0+0	Compulsory	2
MEC 401	MECHANICAL ENGINEERING DESIGN	0+3+0	Compulsory	6
MEC 403	MECHANICAL ENGINEERING LABORATORY I	1+0+2	Compulsory	2
MEC 405	CONTROL SYSTEMS	3+0+0	Compulsory	5
MEC 407	INTERNSHIP II	0+0+0	Compulsory	3
FOR4GÜZ	FOR4GÜZ	0+0+0	Elective	0
SEC 401	ELECTIVE COURSE VII (TECHNICAL COURSE)	3+0+0	Elective	5

Total ECTS **23**

Course Groups

FOR 401G	TEACHING PRACTICE	1+8+0	Elective	10
SEC 401.1	INTRODUCTION TO FRACTURE MECHANICS	3+0+0	Elective	5
SEC 401.2	INTERMEDIATE STRENGTH OF MATERIALS	3+0+0	Elective	5
SEC 401.3	HVAC SYSTEMS	3+0+0	Elective	5
SEC 401.4	AUTOMATION & ROBOTICS	3+0+0	Elective	5
SEC 401.5	QUALITY CONTROL IN MANUFACTURING	3+0+0	Elective	5

8.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
ISG 402	OCCUPATIONAL HEALTH AND SAFETY II	1+0+0	Compulsory	1
MEC 402	GRADUATION PROJECT	0+3+0	Compulsory	6
MEC 404	MECHANICAL ENGINEERING LABORATORY II	1+0+2	Compulsory	2
FOR4BAHAR	FOR4BAHAR	0+0+0	Elective	0
SEC 402	ELECTIVE COURSE VII (TECHNICAL COURSE)	3+0+0	Elective	18
SEC 404	ELECTIVE COURSE IX (OUT OF AREA)	2+0+0	Elective	3

Total ECTS **30**

Course Groups

FOR 401B	TEACHING PRACTICE	1+8+0	Elective	10
SEC 402.1	REFRIGERATION TECHNOLOGY	3+0+0	Elective	6
SEC 402.2	EXPERIMENTAL MECHANICS	3+0+0	Elective	6
SEC 402.3	THERMAL POWER ENGINEERING	3+0+0	Elective	6
SEC 402.4	MECHANICAL VIBRATIONS	3+0+0	Elective	6
SEC 402.5	INTERMEDIATE MANUFACTURING PROCESS	3+0+0	Elective	6
SEC 402.6	ROBOTIC DESIGN	3+0+0	Elective	6
SEC 404.1	ENGINEERING ETHICS	2+0+0	Elective	3
SEC 404.2	TOTAL PRODUCTIVE MANAGEMENT	2+0+0	Elective	3
SEC 404.3	TOTAL QUALITY MANAGEMENT	2+0+0	Elective	3
SEC 404.4	ENTREPRENEURSHIP	2+0+0	Elective	3
SEC 404.5	ECONOMICS	2+0+0	Elective	3
SEC 404.6	PROJECT MANAGEMENT	2+0+0	Elective	3