

1.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
FİZ1101	PHYSICS I	3+2+0	Compulsory	6
KİM1101	CHEMISTRY	3+2+0	Compulsory	6
MAT1101	MATHEMATICS I	4+0+0	Compulsory	6
MKN1121	ENGINEERING DRAWING	3+1+0	Compulsory	5
MKN1125	INTRODUCTION TO MECHANICAL ENGINEERING	2+0+0	Compulsory	3
MKN1127	MEASURING TECHNIQUE	2+0+0	Compulsory	2
TRD1103	TURKISH LANGUAGE I	2+0+0	Compulsory	2
<b>Total ECTS</b>				<b>30</b>

2.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
BMÜ1162	COMPUTER PROGRAMMING	2+2+0	Compulsory	4
DJT100	DIGITAL LITERACY	2+0+0	Compulsory	3
FİZ1112	PHYSICS II	3+2+0	Compulsory	5
MAT1102	MATHEMATICS II	4+0+0	Compulsory	6
MAT1106	LINEAR ALGEBRA	2+1+0	Compulsory	3
MKN1112	STATIC	2+2+0	Compulsory	5
MKN1122	COMPUTER AIDED DRAFTING	2+2+0	Compulsory	5
TRD1104	TURKISH LANGUAGE II	2+0+0	Compulsory	2
<b>Total ECTS</b>				<b>33</b>

3.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
AİT2203	ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION I	2+0+0	Compulsory	2
EEM2261	ELECTRICAL ENGINEERING	3+0+0	Compulsory	4
MAT2201	DIFFERENTIAL EQUATIONS	4+0+0	Compulsory	6
MKN2211	DYNAMICS	3+0+0	Compulsory	6
MKN2213	STRENGTH OF MATERIALS I	2+2+0	Compulsory	6
MKN2221	MATERIAL SCIENCE	2+1+0	Compulsory	4
YDİ2203	ENGLISH I	2+0+0	Compulsory	2
<b>Total ECTS</b>				<b>30</b>

4.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
AİT2204	ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION II	2+0+0	Compulsory	2
MKN2202	NUMERICAL ANALYSIS	2+0+0	Compulsory	4
MKN2214	STRENGTH OF MATERIALS II	2+2+0	Compulsory	4
MKN2222	MANUFACTURING PROCESSES	2+2+0	Compulsory	5
MKN2224	ENGINEERING MATERIALS	2+0+0	Compulsory	4
MKN2242	THERMODYNAMICS I	2+2+0	Compulsory	5
MKN2262	PROBABILITY AND STATISTICS	3+0+0	Compulsory	4
YDİ2204	ENGLISH II	2+0+0	Compulsory	2
FRM202	OPTIONAL FORMATION ELECTIVE COURSES (2 COURSES WILL BE SELECTE	-	Elective	7
<b>Total ECTS</b>				<b>37</b>

FOR212	INTRODUCTION TO EDUCATION	3+0+0	Elective	4
FOR214	CLASSROOM MANAGEMENT	2+0+0	Elective	3

5.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
İSG3351	OCCUPATIONAL HEALTH AND SAFETY-I	2+0+0	Compulsory	2
MKN3311	MECHANISM TECHNIQUES	2+0+0	Compulsory	4
MKN3321	MACHINE ELEMENTS I	2+2+0	Compulsory	4
MKN3341	THERMODYNAMICS II	2+2+0	Compulsory	4
MKN3343	FLUID MECHANICS	4+0+0	Compulsory	4
MKN3393	STAJ I	0+1+0	Compulsory	4
FRM301	OPTIONAL FORMATION ELECTIVE COURSES (2 COURSES WILL BE SELECTE	-	Elective	8
OSD3301	UNIVERSITY ELECTIVE COURS	-	Elective	3
SEÇ3001	TECHNICAL ELECTIVE COURSE	-	Elective	5

				Total ECTS	38
FOR311	SPECIAL TEACHING METHODS	3+0+0	Elective	4	
FOR313	GUIDANCE AND SPECIAL EDUCATION	3+0+0	Elective	4	
MKN3313	SYSTEM DYNAMICS AND CONTROL	3+0+0	Elective	5	
MKN3323	MANUFACTURING ENGINEERING	3+0+0	Elective	5	
MKN3403	MATERIAL SELECTION	3+0+0	Elective	5	
MKN3427	CONSTRUCTION OF SYSTEMATIC	3+0+0	Elective	5	

#### 6.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
ISG3352	OCCUPATIONAL HEALTH AND SAFETY II	2+0+0	Compulsory	2
MKN3310	DYNAMICS OF MACHINE	3+0+0	Compulsory	4
MKN3322	MACHINE ELEMENTS II	2+2+0	Compulsory	5
MKN3332	INTERNAL COMBUSTION ENGINES	2+1+0	Compulsory	3
MKN3342	HYDRAULIC MACHINES	3+0+0	Compulsory	4
MKN3344	HEAT TRANSFER	3+0+0	Compulsory	4
FRM302	OPTIONAL FORMATION ELECTIVE COURSES (2 COURSES WILL BE SELECTE	-	Elective	8
OSD3302	UNIVERSITY ELECTIVE COURS	-	Elective	3
SEÇ3002	ELECTIVE COURSE	-	Elective	5

Total ECTS 38

FOR322	PRINCIPLES AND METHODS OF TEACHING	3+0+0	Elective	4
FOR324	EDUCATION PSYCHOLOGY	3+0+0	Elective	4
MKN3334	MOLDING TECHNIQUE	3+0+0	Elective	5
MKN3340	HEATING AIR CONDITIONING	3+0+0	Elective	5
MKN3346	INDUSTRIAL APPLICATIONS OF HYDRAULIC	3+0+0	Elective	5
MKN3348	SOLAR ENERGY	3+0+0	Elective	5

#### 7.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
MKN4401	MECHANICAL ENGINEERING LABORATORIES I	0+4+0	Compulsory	4
MKN4421	MECHANICAL ENGINEERING DESIGN	2+0+0	Compulsory	3
MKN4427	COMPUTER CONTROLLED (CNC) MACHINE TOOLS	3+0+0	Compulsory	5
MKN4493	INTERNSHIP II	0+1+0	Compulsory	2
FRM401	OPTIONAL FORMATION ELECTIVE COURSES (2 COURSES WILL BE SELECTE	-	Elective	7
SEÇ4001	TECHNICAL ELECTIVE COURSE (4 COURSE SELECTED)	-	Elective	16

Total ECTS 37

FOR411	MEASUREMENT AND EVALUATION IN EDUCATION	3+0+0	Elective	4
FOR413	TEACHING TECHNOLOGIES	2+0+0	Elective	3
MKN4403	COMPUTER APPLICATIONS IN MECHANICAL ENGINEERING	3+0+0	Elective	4
MKN4405	MECHANICAL VIBRATION	3+0+0	Elective	4
MKN4409	OPTIMIZATION TECHNIQUES	3+0+0	Elective	4
MKN4411	SIMULATION OF CONTROL SYSTEMS	3+0+0	Elective	4
MKN4413	INTRODUCTION TO ROBOTICS	3+0+0	Elective	4
MKN4415	APPLIED SOLID MECHANICS	3+0+0	Elective	4
MKN4425	EXHAUST EMISSIONS	3+0+0	Elective	4
MKN4429	MODERN WELDING	3+0+0	Elective	4
MKN4431	BUSINESS MACHINES	3+0+0	Elective	4
MKN4433	ENGINE DESIGN	3+0+0	Elective	4
MKN4435	NEW TECHNOLOGIES IN VEHICLES	3+0+0	Elective	4
MKN4437	PNEUMATIC CONTROL SYSTEMS	3+0+0	Elective	4
MKN4439	DESIGN OF CHASIS&BODY	3+0+0	Elective	4
MKN4441	ISIL SİSTEMLER	3+0+0	Elective	4
MKN4443	ENERGY SAVING IN INDUSTRY	3+0+0	Elective	4
MKN4445	COOLING TECHNIQUES	3+0+0	Elective	4
MKN4447	INSULATION TECHNIQUES	3+0+0	Elective	4
MKN4449	PRINCIPLES OF COMBUSTION	3+0+0	Elective	4
MKN4461	METAL FORMING	3+0+0	Elective	4
MKN4463	PROCESS TECHNIQUES	3+0+0	Elective	4
MKN4465	NON-DESTRUCTIVE EXPERIMENT METHODS	3+0+0	Elective	4
MKN4471	FUEL ECONOMY IN VEHICLES	3+0+0	Elective	4
MKN4475	THEORY OF TOOL WORKBENCH	3+0+0	Elective	4
MKN4481	RENEWABLE ENERGY SOURCES	3+0+0	Elective	4
MKN4483	SANITARY INSTALLATION	3+0+0	Elective	4

#### 8.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
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MKN408	SENIOR DESIGN PROJECT	0+2+0	Compulsory	4
MKN4404	MECHANICAL ENGINEERING LABORATORIES II	0+4+0	Compulsory	4
MKN4432	AUTOMOTIVE ENGINEERING	3+0+0	Compulsory	3
MKN4438	TRANSPORT TECHNIQUES	3+0+0	Compulsory	4
FRM402	OPTIONAL FORMATION ELECTIVE COURSES (1 COURSES WILL BE SELECTE	-	Elective	10
SEÇ4002	TECHNICAL ELECTIVE COURSE (3 COURSE SELECTED)	-	Elective	12
SEÇ4004	ELECTIVE COURSE	-	Elective	3

**Total ECTS**      **40**

FOR422	TEACHING APPLICATION	1+8+0	Elective	10
MKN4406	DESIGN OF CONTROL SYSTEMS	3+0+0	Elective	4
MKN4410	CONROL OF INDUSTRIAL NOISE AND VIBRATIONS	3+0+0	Elective	4
MKN4412	VIBRATIONS AND COMPUTER AIDED MAINTENANCE	3+0+0	Elective	4
MKN4414	CONTROL ELEMENTS AND APPLICATIONS	3+0+0	Elective	4
MKN4420	COMPUTER AIDED MANUFACTURING	3+0+0	Elective	4
MKN4422	CASTING TECHNOLOGY	3+0+0	Elective	4
MKN4424	COMPUTATIONAL FORMING TECHNOLOGY	3+0+0	Elective	4
MKN4426	MANUFACTURING MANAGEMENT	3+0+0	Elective	4
MKN4428	WELDING CAPABILITY	3+0+0	Elective	4
MKN4430	MIXTURE FORMATION IN INTERNAL COMBUSTION ENGINES	3+0+0	Elective	4
MKN4434	VEHICLE TECHNOLOGY	3+0+0	Elective	4
MKN4436	THERMAL TURBO MACHINES	3+0+0	Elective	4
MKN4440	ENERGY PLANTS	3+0+0	Elective	4
MKN4442	HEAT EXCHANGERS	3+0+0	Elective	4
MKN4444	FUNDAMENTALS AND DESIGN OF AIR CONDITIONING	3+0+0	Elective	4
MKN4446	DRYING TECHNIQUES	3+0+0	Elective	4
MKN4448	APPLIED FLUID MECHANICS	3+0+0	Elective	4
MKN4462	MECHANICS OF COMPOSITE MATERIALS	3+0+0	Elective	4
MKN4464	DURABILITY AND RELIABILITY IN MECHANICAL DESIGN	3+0+0	Elective	4
MKN4466	HEAT TREATMENTS OF METALS AND ALLOYS	3+0+0	Elective	4
MKN4468	FRICTION AND WEAR	3+0+0	Elective	4
MKN4470	NATURAL GAS INSTALLATION	3+0+0	Elective	4
MMF006	TECHNICAL COMMUNICATION	2+0+0	Elective	3
MMF01	ENGINEERING ECONOMY	2+0+0	Elective	3
MMF02	ENVIRONMENT AND ENERGY	2+0+0	Elective	3
MMF03	ENGINEERING ETHICS	2+0+0	Elective	3
MMF04	INDUSTRIAL RELATIONS	2+0+0	Elective	3
MMF05	BUSINESS LAW	2+0+0	Elective	3
MMF06	OCCUPATIONAL DISEASES	2+0+0	Elective	3
MMF07	HUMAN RESOURCE MANAGEMENT	2+0+0	Elective	3
MMF08	BUSINESS MANAGEMENT	2+0+0	Elective	3
MMF09	PROJECT CYCLE MANAGEMENT	2+0+0	Elective	3
MMF10	ENERGY-SAVING	2+0+0	Elective	3
MMF11	INTELLECTUAL AND INDUSTRIAL PROPERTY	2+0+0	Elective	3