

**1st YEAR FALL SEMESTER**

COURSE CODE	COURSE NAME	T	U	K	ECTS
OD 107	CAREER PLANNING	1	0	1	2
OD 113	TURKISH I	2	0	2	2
OD 117	ADVANCED ENGLISH I	3	0	3	4
TM 105	MATHEMATICS I	4	0	4	5
TM 107	GENERAL CHEMISTRY	3	1	4	5
TM 109	PHYSICS I	3	1	4	5
MM 101	INTRODUCTION TO MECHANICAL ENGINEERING	2	0	2	3
MM 103	COMPUTER AIDED ENGINEERING DRAWING I	2	2	3	4
<b>TOTAL</b>		<b>20</b>	<b>4</b>	<b>22</b>	<b>30</b>

**1st YEAR SPRING SEMESTER**

COURSE CODE	COURSE NAME	T	U	K	ECTS
OD 114	TURKISH II	2	0	2	2
OD 118	ADVANCED ENGLISH II	3	0	3	4
TM 106	MATHEMATICS II	4	0	4	5
TM 108	PHYSICS II	3	1	4	5
MM 102	STATICS	3	0	3	5
MM 104	COMPUTER AIDED ENGINEERING DRAWING II	2	2	3	4
MM 106	COMPUTER PROGRAMMING	2	1	4	5
<b>TOTAL</b>		<b>19</b>	<b>4</b>	<b>21</b>	<b>30</b>

**2nd YEAR FALL SEMESTER**

COURSE CODE	COURSE NAME	T	U	K	ECTS
TM 203	DIFFERENTIAL EQUATIONS	3	0	3	5
MM 201	THERMODYNAMICS I	3	0	3	5
MM 203	STRENGTH OF MATERIALS I	3	0	3	5
MM 205	DYNAMICS	3	0	3	5
MM 207	MATERIALS SCIENCE	3	0	3	5
MM 209	TECHNICAL ENGLISH	2	0	2	2
MM 211	FUNDAMENTALS OF ELECTRICITY AND ELECTRONICS	3	0	3	3
<b>TOTAL</b>		<b>20</b>	<b>0</b>	<b>20</b>	<b>30</b>

**2nd YEAR SPRING SEMESTER**

COURSE CODE	COURSE NAME	T	U	K	ECTS
TM 202	ENGINEERING MATHEMATICS	3	0	3	5
TM 204	NUMERICAL ANALYSIS	3	0	3	4
MM 202	THERMODYNAMICS II	3	0	3	5
MM 204	STRENGTH OF MATERIALS II	3	0	3	5
MM 206	COMPUTER AIDED DESIGN	2	2	3	5
MM 208	ENGINEERING MATERIALS	3	0	3	4
MM 210	BUSINESS ENGLISH	2	0	2	2
<b>TOTAL</b>		<b>19</b>	<b>2</b>	<b>20</b>	<b>30</b>

**3rd YEAR FALL SEMESTER**

COURSE CODE	COURSE NAME	T	U	K	ECTS
MM 301	MACHINE ELEMENTS I	3	0	3	5
MM 303	SYSTEM DYNAMICS AND CONTROL	3	0	3	5
MM 305	FLUID MECHANICS I	3	0	3	5
MM 307	INTERNAL COMBUSTION ENGINES	3	0	3	4
MM 309	MANUFACTURING METHODS	3	0	3	4
MM 311	MEASUREMENT TECHNIQUES	3	0	3	3
	TECHNICAL ELECTIVE I	3	0	3	4
<b>TOTAL</b>		<b>21</b>	<b>0</b>	<b>21</b>	<b>30</b>

**3rd YEAR SPRING SEMESTER**

COURSE CODE	COURSE NAME	T	U	K	ECTS
MM 302	MACHINE ELEMENTS II	3	0	3	5
MM 304	HEAT TRANSFER	4	0	4	5
MM 306	FLUID MECHANICS II	3	0	3	4
MM 308	THEORY OF MACHINES	3	0	3	4
MM 310	STATISTICS	3	0	3	4
	TECHNICAL ELECTIVE II	3	0	3	4
	TECHNICAL ELECTIVE III	3	0	3	4
<b>TOTAL</b>			<b>0</b>	<b>22</b>	<b>30</b>

**4th YEAR FALL SEMESTER**

COURSE CODE	COURSE NAME	T	U	K	ECTS
OD 111	ATATURK PRINCIPLES AND HISTORY OF TURKISH REVOLUTIO	2	0	2	2
MM 401	MECHANICAL ENGINEERING LABORATORY I	1	2	2	6
MM 403	ENGINEERING DESIGN	3	1	4	6
MM 405	OCCUPATIONAL HEALTH AND SAFETY I	2	0	2	3
	MECHANICAL ELECTIVE I	3	0	3	5
	THERMAL ELECTIVE I	3	0	3	5
	GENERAL ELECTIVE I	2	0	2	3
<b>TOTAL</b>		<b>16</b>	<b>3</b>	<b>18</b>	<b>30</b>

**4th YEAR SPRING SEMESTER**

COURSE CODE	COURSE NAME	T	U	K	ECTS
OD 112	ATATURK PRINCIPLES AND HISTORY OF TURKISH REVOLUTIO	2	0	2	2
MM 402	MECHANICAL ENGINEERING LABORATORY I	1	2	2	6
MM 404	GRADUATION PROJECT	0	2	1	6
MM 406	OCCUPATIONAL HEALTH AND SAFETY II	2	0	2	3
	MECHANICAL ELECTIVE II	3	0	3	5
	THERMAL ELECTIVE II	3	0	3	5
	GENERAL ELECTIVE II	2	0	2	3
<b>TOTAL</b>		<b>13</b>	<b>4</b>	<b>15</b>	<b>30</b>

**TECHNICAL ELECTIVE I**

<b>COURSE CODE</b>	<b>COURSE NAME</b>	<b>T</b>	<b>U</b>	<b>K</b>	<b>ECTS</b>
MM 321	INDUSTRIAL AUTOMATION SYSTEMS	3	0	3	4
MM 323	INTERNET OF THINGS	3	0	3	4
MM 325	ARTIFICIAL INTELLIGENCE APPLICATIONS	3	0	3	4
MM 327	INTRODUCTION TO CYBER SECURITY	3	0	3	4
MM 329	SENSORS, SIGNAL OPTIMIZATION AND DATA	3	0	3	4
MM 331	DATA MINING	3	0	3	4
MM 333	MACHINE LEARNING	3	0	3	4

**TECHNICAL ELECTIVE II**

<b>COURSE CODE</b>	<b>COURSE NAME</b>	<b>T</b>	<b>U</b>	<b>K</b>	<b>ECTS</b>
MM 322	RENEWABLE ENERGY RESOURCES	3	0	3	4
MM 324	AERODYNAMICS	3	0	3	4
MM 326	MODELLING AND SIMULATION	3	0	3	4
MM 328	HYBRID AND ELECTRICAL VEHICLES	3	0	3	4
MM 330	COMPOSITE MATERIALS	3	0	3	4
MM 332	COMPUTATIONAL FLUID DYNAMICS	3	0	3	4

**TECHNICAL ELECTIVE III**

<b>COURSE CODE</b>	<b>COURSE NAME</b>	<b>T</b>	<b>U</b>	<b>K</b>	<b>ECTS</b>
MM 334	NUCLEAR ENERGY	3	0	3	4
MM 336	WELDING TECHNOLOGY	3	0	3	4
MM 338	FUELS AND COMBUSTION	3	0	3	4
MM 340	ENVIRONMENT AND ENERGY	3	0	3	4
MM 342	FINITE ELEMENT ANALYSIS	3	0	3	4
MM 344	BATTERY TECHNOLOGIES	3	0	3	4
MM 346	ENGINEERING ECONOMY	3	0	3	4
MM 348	ENERGY MANAGEMENT	3	0	3	4

**THERMAL ELECTIVE I**

<b>COURSE CODE</b>	<b>COURSE NAME</b>	<b>T</b>	<b>U</b>	<b>K</b>	<b>ECTS</b>
MM 421	HEATING VENTILATING AND AIR CONDITIONING	3	0	3	5
MM 423	PLUMBING ENGINEERING AND APPLICATIONS	3	0	3	5
MM 425	SOLAR ENERGY SYSTEMS	3	0	3	5
MM 427	THERMAL POWER PLANTS	3	0	3	5
MM 429	WASTE HEAT RECOVERY SYSTEMS	3	0	3	5
MM 431	ENERGY EFFICIENT BUILDING DESIGN	3	0	3	5

**MECHANICAL ELECTIVE I**

COURSE CODE	COURSE NAME	T	U	K	ECTS
MM 433	TRANSPORT TECHNIQUE	3	0	3	5
MM 435	BIOMECHANICS	3	0	3	5
MM 437	HEAT TREATMENT	3	0	3	5
MM 439	PLASTIC FORMING OF METALS	3	0	3	5
MM 441	MOLD DESIGN	3	0	3	5

**THERMAL ELECTIVE II**

COURSE CODE	DERS ADI	T	U	K	ECTS
MM 422	MASS TRANSFER	3	0	3	5
MM 424	THERMAL POWER ENGINEERING	3	0	3	5
MM 426	THERMAL STORAGE	3	0	3	5
MM 428	TURBOMACHINERY	3	0	3	5
MM 430	HEAT EXCHANGERS	3	0	3	5
MM 432	TWO PHASE FLOW	3	0	3	5
MM 434	REFRIGERATION SYSTEMS	3	0	3	5

**MECHANICAL ELECTIVE II**

COURSE CODE	COURSE NAME	T	U	K	ECTS
MM 436	ROBOTICS	3	0	3	5
MM 438	MOTOR VEHICLE TECHNIQUE	3	0	3	5
MM 440	COMPUTER AIDED MANUFACTURING	3	0	3	5
MM 442	MECHANICAL VIBRATIONS	3	0	3	5
MM 444	AUTOMOTIVE TRANSMISSION SYSTEMS	3	0	3	5
MM 446	VEHICLE CHASSIS & BODY DESIGN	3	0	3	5

GENERAL ELECTIVE I

COURSE CODE	COURSE NAME	T	U	K	ECTS
GS 001	RESEARCH METHODS	2	0	2	3
GS 003	TECHNICAL COMMUNICATION	2	0	2	3
GS 005	STRESS AND TIME MANAGEMENT	2	0	2	3
GS 007	OCCUPATIONAL HEALTH AND SAFETY	2	0	2	3
GS 009	PUBLIC ADMINISTRATION	2	0	2	3
GS 011	VOLUNTEERING	2	0	2	3
GS 013	ACADEMIC TURKISH	2	0	2	3
GS 015	CREATIVE DRAMA AND IMPROVISION	2	0	2	3
GS 017	HUMAN RESOURCES MANAGEMENT	2	0	2	3
GS 019	FIRST AID	2	0	2	3
GS 021	EMPLOYMENT LAW	2	0	2	3
GS 023	ENTERPRISE RESOURCE PLANNING	2	0	2	3
GS 025	HUMAN RIGHTS	2	0	2	3
GS 027	ENTREPRENEURSHIP	2	0	2	3
GS 029	ENGINEERING ETHICS	2	0	2	3
GS 031	HISTORY OF SCIENCE	2	0	2	3
GS 033	SOCIAL PSYCHOLOGY	2	0	2	3
GS 035	COMMUNICATION	2	0	2	3
GS 037	FINANCIAL LITERACY	2	0	2	3
GS 039	SIGN LANGUAGE	2	0	2	3
GS 041	DISASTER AND CRISIS MANAGEMENT	2	0	2	3
GS 043	CITY AND SOCIETY	2	0	2	3
GS 045	ENVIRONMENTAL PROTECTION	2	0	2	3
GS 047	BEHAVIOR SCIENCE	2	0	2	3

GENERAL ELECTIVE II

COURSE CODE	COURSE NAME	T	U	K	ECTS
GS 002	MEDIA AND COMMUNICATION	2	0	2	3
GS 004	DICTION AND EFFECTIVE SPEAKING	2	0	2	3
GS 006	BUSINESS ETHICS	2	0	2	3
GS 008	KNOWLEDGE PROTOCOL	2	0	2	3
GS 010	PRODUCTION MANAGEMENT	2	0	2	3
GS 012	SOCIAL RESPONSIBILITY	2	0	2	3
GS 014	ACADEMIC TURKISH II	2	0	2	3
GS 016	CREATIVE DRAMA AND IMPROVISION	2	0	2	3
GS 018	HUMAN RESOURCE MANAGEMENT	2	0	2	3
GS 020	FIRST AID	2	0	2	3
GS 022	EMPLOYMENT LAW	2	0	2	3
GS 024	POLITICAL SCIENCES	2	0	2	3
GS 026	SUSTAINABILITY	2	0	2	3
GS 028	PROBLEM SOLVING AND DECISION MAKING	2	0	2	3
GS 030	TECHNOLOGY ADDICTION	2	0	2	3
GS 032	BUSINESS ADMINISTRATION	2	0	2	3
GS 034	FACTORY ORGANIZATION	2	0	2	3
GS 036	QUALITY MANAGEMENT SYSTEMS	2	0	2	3
GS 038	TECHNOLOGY MANAGEMENT AND R&D	2	0	2	3
GS 040	MARKETING	2	0	2	3
GS 042	SERVICE MARKETING	2	0	2	3
GS 044	E-COMMERCE	2	0	2	3
GS 046	CURRENT ECONOMIC ISSUES	2	0	2	3
GS 048	PUBLIC RELATIONS	2	0	2	3
GS 050	SOCIOLOGY	2	0	2	3
GS 052	GLOBALIZATION READINGS	2	0	2	3
GS 054	PHOTOGRAPHY	2	0	2	3
GS 056	PROJECT MANAGEMENT	2	0	2	3
GS 058	INTRODUCTION TO BUSINESS SCIENCE	2	0	2	3
GS 060	HEALTHY AND ACTIVE AGEING	2	0	2	3
GS 062	SALES TECHNIQUES	2	0	2	3