

**VOCATIONAL SCHOOL
DEPARTMENT OF MACHINERY AND METAL TECHNOLOGIES
PROGRAM OF MACHINERY
2026-2027 ASSOCIATE DEGREE CURRICULUM - FALL SEMESTER**

Semester 1

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
ATA101	Atatürk Principles and The History of Turkish Revolution I	2	0	2	2	Compulsory	
MING151	Basic English I	3	0	3	4	Compulsory	
MMAT101	Mathematics	3	0	3	5	Compulsory	
MMAK153	Basic Static	3	0	3	7	Compulsory	
MMAK158	Introduction to Materials Technology	3	0	3	6	Compulsory	
MMEK115	Computer Programming I	3	0	3	5	Compulsory	
KYP001.09	Preparation for Business Life	0	2	1	1	Compulsory	
Total Credit		18		30			

Semester 2

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
ATA102	Atatürk Principles and The History of Turkish Revolution II	2	0	2	2	Compulsory	
MING152	Basic English II	3	0	3	4	Compulsory	
MMAK160	Introduction to Computer Aided Technical Drawing	3	0	3	6	Compulsory	
MMAK156	Fundamentals of Machine Tools	3	0	3	6	Compulsory	
MMAK223	Introduction to Fluid Dynamics	3	0	3	6	Compulsory	
MMAK221	Basic Strength of Structures	3	0	3	6	Compulsory	
Total Credit		17		30			

Semester 3

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
MTRD101	Turkish Language I	2	0	2	2	Compulsory	
MMAK214	Introduction to Thermodynamics	3	0	3	5	Compulsory	
MMAK155	Basic Manufacturing Operations	3	0	3	5	Compulsory	
MMAK212	Hydraulic and Pneumatic Systems	3	0	3	5	Compulsory	
MMAK162	Basics of Dynamics	3	0	3	7	Compulsory	
MISG218	Occupational Health and Safety	3	0	3	5	Compulsory	
MMSE201	Ethics	3	0	3	5	Compulsory	
Total Credit		20		34			

Semester 4

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
MTRD102	Turkish Language II	2	0	2	2	Compulsory	
MMAK220	Professional Research Project	3	0	3	9	Compulsory	
SECGNL4YY	Elective Group	3	0	3	5	Elective	
SECGNL4YY	Elective Group	3	0	3	5	Elective	
SECGNL4YY	Elective Group	3	0	3	5	Elective	
SECGNL4YY	Elective Group	3	0	3	5	Elective	
Total Credit		17		31			

TOTAL CREDIT	72
TOTAL ECTS	125

Abbreviations: T=Weekly hours: theoretical; A=Weekly hours: application; C=Credits in Turkish System; ECTS= European Credit Transfer System



ELECTIVE COURSES

Semester 2							
Code	Course Title	T	A	C	ECTS	Status	Prerequisite
SECOND FOREIGN LANGUAGE							
DEPARTMENTAL ELECTIVE							
FACULTY ELECTIVE							
UNIVERSITY ELECTIVE							

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
SECOND FOREIGN LANGUAGE							
DEPARTMENTAL ELECTIVE							
MMAK224	Mechanical Measuring Techniques	3	0	3	5	Elective	
MMAK131	Heat Transfer	3	0	3	5	Elective	
FACULTY ELECTIVE							
MOSB106	Workplace Application I	0	6	3	5	Elective	
MOSB107	Workplace Application II	0	6	3	5	Elective	
MOSB108	Workplace Application III	0	6	3	5	Elective	
MOSB109	Workplace Application IV	0	6	3	5	Elective	
MMEK234	Additive Manufacturing	3	0	3	5	Elective	
MMEK221	Control Systems I	3	0	3	5	Elective	
MADL230	Labour Law	3	0	3	5	Elective	
MIKA242	Basics of Effective Communication Techniqu	3	0	3	5	Elective	
MGRS201	Practices Of Entrepreneurship	3	0	3	5	Elective	
MGSA202	Fine Arts	3	0	3	5	Elective	
MISL223	General Business	3	0	3	5	Elective	
MBLP241	Computer Literacy	3	0	3	5	Elective	
MFIZ103	Fundamental of Physics	3	0	3	5	Elective	
MELK237	Sustainability and Environment	3	0	3	5	Elective	
MMEK122	Mechanical Vibrations	3	0	3	5	Elective	
MELK105	Circuit Analysis	3	0	3	5	Elective	
MBLP244	Embedded Systems	3	0	3	5	Elective	
MMEK125	Vocational English	3	0	3	5	Elective	
MBLP140	Office Applications	3	0	3	5	Elective	
MMEK209	Robot Technology	3	0	3	5	Elective	
MMEK222	Programmable Logic Controller	3	0	3	5	Elective	
MUTK216	Non Destructive Material Inspection	3	0	3	5	Elective	
MMEK236	Control Theory	3	0	3	5	Elective	
MYZO101	Introduction to Artificial Intelligence	3	0	3	5	Elective	
UNIVERSITY ELECTIVE							