

VOCATIONAL SCHOOL
DEPARTMENT OF ELECTRONIC AND AUTOMATION
PROGRAM OF MECHATRONIC
ASSOCIATE DEGREE CURRICULUM (2022-2023 FALL)

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	
MELK105	Circuit Analysis	3	0	3	5	Compulsory	
MMEK101	Introduction to Mechatronics	3	0	3	5	Compulsory	
MMEK115	Computer Programming I	3	0	3	5	Compulsory	
MELK107	Computer Aided Technical Design	3	0	3	4	Compulsory	
KYP001.09	İş Yaşamına Hazırlık	0	2	1	1	Compulsory	
Total Credit		21			31		

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	
MELK118	Analog Electronic Circuits	3	0	3	6	Compulsory	
MMEK114	Computer Programming II	3	0	3	5	Compulsory	
MMEK118	Microcontrollers I	3	0	3	6	Compulsory	
MELK124	Electric Motor and Drivers	3	0	3	6	Compulsory	
Total Credit		17			29		

Semester 3

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
MMEK221	Control Systems I	3	0	3	5	Compulsory	
MELK229	Computer Aided Electronic Circuit Design	3	0	3	6	Compulsory	
MMEK217	Microcontrollers II	3	0	3	6	Compulsory	
MTRD101	Turkish Language I	2	0	2	2	Compulsory	
SECGNL3YY	Elective Course I (DEPARTMENTAL ELECTIVE/FACULTY ELECTIVE)	3	0	3	5	Elective	
SECGNL3YY	Elective Course II (DEPARTMENTAL ELECTIVE/FACULTY ELECTIVE)	3	0	3	5	Elective	
Total Credit		17			29		

Semester 4

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
MTRD102	Turkish Language II	2	0	2	2	Compulsory	
MMEK220	Digital Circuit Design	3	0	3	5	Compulsory	
MMEK230	Computer Aided Solid Modelling	3	0	3	5	Compulsory	
MMEK232	Preparing project	3	0	3	9	Compulsory	
SECGNL4YY	Elective Course III (DEPARTMENTAL ELECTIVE/FACULTY ELECTIVE)	3	0	3	5	Elective	
SECGNL4YY	Elective Course IV (DEPARTMENTAL ELECTIVE/FACULTY ELECTIVE)	3	0	3	5	Elective	
Total Credit		17			31		

Semester 5

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
Total Credit							

Semester 6

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
Total Credit							

Semester 7

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
Total Credit							

Semester 8

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
Total Credit							

TOTAL CREDIT	72
TOTAL ECTS	120

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

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ELECTIVE COURSES

Semester 1

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

Semester 2

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

Semester 3

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
SECOND FOREIGN LANGUAGE							
DEPARTMENTAL ELECTIVE							
MMEK111	Sensors and Transducers	3	0	3	5	Elective	
MMEK209	Robot Technology	3	0	3	5	Elective	
MMEK222	Programmable Logic Controller	3	0	3	5	Elective	
MMOT223	Artificial Intelligence	3	0	3	5	Elective	
MMEK223	Introduction to Matlab / Simulink	3	0	3	5	Elective	
MMEK226	Mechatronics Applications in Industry	3	0	3	5	Elective	
MMEK228	Mechatronics System Design	3	0	3	5	Elective	
MMEK216	Control Systems II	3	0	3	5	Elective	
MMOT101	Introduction to Mobile Programming	3	0	3	6	Elective	
MMOT110	Introduction to iOS Programming	3	0	3	6	Elective	
MMOT108	Introduction to Android Programming	3	0	3	6	Elective	
MBLP229	Programming in Java	3	0	3	6	Elective	
FACULTY ELECTIVE							
MBLP242	Introduction to Parallel Programming	3	0	3	5	Elective	
MBLP132	Fundamental Algorithm Applications	3	0	3	6	Elective	
MBLP236	Introduction to Cyber Security	3	0	3	6	Elective	
MELK217	Measurement Techniques	3	0	3	5	Elective	
MMAK146	Machine Tools	3	0	3	5	Elective	
MMAK102	Material Technology	3	0	3	5	Elective	
MMAK212	Hydraulic and Pneumatic Systems	3	0	3	5	Elective	
MMAK134	Air Conditioning and Cooling Systems	3	0	3	5	Elective	
MELK233	Lighting Technique	3	0	3	5	Elective	
MELK234	Electric Facilities	3	0	3	5	Elective	
MMAK218	Construction Machinery	3	0	3	5	Elective	
MGRS201	Practices Of Entrepreneurship	3	0	3	5	Elective	
MGSA202	Fine Arts	3	0	3	5	Elective	
MISG218	Principles of Occupational Health and Safety	3	0	3	5	Elective	
MMSSE201	Occupational Ethics	3	0	3	5	Elective	
MISL223	General Business	3	0	3	5	Elective	
MADL230	Labour Law	3	0	3	5	Elective	
MBLP241	Computer Literacy	3	0	3	5	Elective	
MING253	English III	3	0	3	5	Elective	
UNIVERSITY ELECTIVE							

Semester 4

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
SECOND FOREIGN LANGUAGE							
DEPARTMENTAL ELECTIVE							
MMEK111	Sensors and Transducers	3	0	3	5	Elective	
MMEK209	Robot Technology	3	0	3	5	Elective	
MMEK222	Programmable Logic Controller	3	0	3	5	Elective	
MMOT223	Artificial Intelligence	3	0	3	5	Elective	
MMEK223	Introduction to Matlab / Simulink	3	0	3	5	Elective	
MMEK226	Mechatronics Applications in Industry	3	0	3	5	Elective	
MMEK228	Mechatronics System Design	3	0	3	5	Elective	
MMEK216	Control Systems II	3	0	3	5	Elective	
MMOT101	Introduction to Mobile Programming	3	0	3	6	Elective	
MMOT110	Introduction to iOS Programming	3	0	3	6	Elective	
MMOT108	Introduction to Android Programming	3	0	3	6	Elective	
MBLP229	Programming in Java	3	0	3	6	Elective	
FACULTY ELECTIVE							
MBLP242	Introduction to Parallel Programming	3	0	3	5	Elective	
MBLP132	Fundamental Algorithm Applications	3	0	3	6	Elective	
MBLP236	Introduction to Cyber Security	3	0	3	6	Elective	
MELK217	Measurement Techniques	3	0	3	5	Elective	
MMAK146	Machine Tools	3	0	3	5	Elective	
MMAK102	Material Technology	3	0	3	5	Elective	
MMAK212	Hydraulic and Pneumatic Systems	3	0	3	5	Elective	
MMAK134	Air Conditioning and Cooling Systems	3	0	3	5	Elective	
MELK233	Lighting Technique	3	0	3	5	Elective	
MELK234	Electric Facilities	3	0	3	5	Elective	
MMAK218	Construction Machinery	3	0	3	5	Elective	
MGRS201	Practices Of Entrepreneurship	3	0	3	5	Elective	
MGSA202	Fine Arts	3	0	3	5	Elective	
MISG218	Principles of Occupational Health and Safety	3	0	3	5	Elective	
MMSSE201	Occupational Ethics	3	0	3	5	Elective	
MISL223	General Business	3	0	3	5	Elective	
MADL230	Labour Law	3	0	3	5	Elective	
MBLP241	Computer Literacy	3	0	3	5	Elective	
MING254	English IV	3	0	3	5	Elective	
UNIVERSITY ELECTIVE							

Semester 5

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

Semester 6

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

Semester 7

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

Semester 8

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