

EĞİTİM - ÖĞRETİM PLANI

	VOCATIONAL SCHOOL ELECTRICAL AND ENERGY DEPARTMENT AIR CONDITIONING AND REFRIGERATION TECHNOLOGY PROGRAM CURRICULUM (3+1) (2025-2026 FALL SEMESTER)	Document Code: FR.OGR.200 Rev. No: 02 Publication Date: 25.06.1999 Revision Date: 25.07.2023 Page No: 1
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VOCATIONAL SCHOOL
ELECTRICAL AND ENERGY DEPARTMENT
AIR CONDITIONING AND REFRIGERATION TECHNOLOGY PROGRAM
CURRICULUM (3+1) (2025-2026 FALL SEMESTER)

1st Semester

Code	Course Name	T	U	K	ECT S	Status	Prerequisite
ATA101	Principles of Atatürk and History of Revolution I	2	0	2	2	Compulsory	
MING151	Basic English I	3	0	3	4	Compulsory	
MMAT101	Mathematics	3	0	3	5	Compulsory	
MIKL101	Principles of Refrigeration	3	0	3	6	Compulsory	
MMAK214	Introduction to Computer Aided Technical Drawing	3	0	3	5	Compulsory	
MMAK160		3	0	3	6	Compulsory	
KYP001.09	Preparation for Work Life	0	2	1	1	Compulsory	
Total Credits					18	29	

2nd Semester

Code	Course Name	T	U	K	ECT S	Status	Prerequisite
ATA102	Principles of Atatürk and History of Revolution II	2	0	2	2	Compulsory	
MING152	Basic English II	3	0	3	4	Compulsory	
MMAK134	Air Conditioning and Refrigeration Systems	3	0	3	5	Compulsory	
MUTK106	Introduction to Electrical Knowledge	3	0	3	6	Compulsory	
MIKL102	Programmable Control Circuits	3	0	3	5	Compulsory	
MIKL104	Vehicle Air Conditioning	3	0	3	5	Compulsory	
MMAK131	Heat Transfer	3	0	3	5	Compulsory	
Total Credits					20	32	

3rd Semester

Code	Course Name	T	U	K	ECT S	Status	Prerequisite
MTRD101	Turkish Language I	2	0	2	2	Compulsory	
MISG218	Occupational Health and Safety	3	0	3	5	Compulsory	
MELK220	Renewable Energy Sources	3	0	3	5	Compulsory	
MIKL203	Commercial Refrigeration Systems	3	0	3	5	Compulsory	
MIKL205	Heat Pump and Applications	3	0	3	5	Compulsory	
MIKL207	Ventilation Systems	3	0	3	5	Compulsory	
MIKL209	Preventive Maintenance and Fault Detection	3	0	3	5	Compulsory	
Total Credits					20	32	

4th Semester

Code	Course Name	T	U	K	ECT S	Status	Prerequisite
MTRD102	Turkish Language II	2	0	2	2	Compulsory	
MELK236	Vocational Project	3	0	3	9	Compulsory	
SECGNL4 YY	Elective Course I (ELECTIVE DEPT. COURSE/ELECTIVE FACULTY COURSE)	3	0	3	5	Elective	
SECGNL4 YY	Elective Course II (ELECTIVE DEPT. COURSE/ELECTIVE FACULTY COURSE)	3	0	3	5	Elective	
SECGNL4 YY	Elective Course III (ELECTIVE DEPT. COURSE/ELECTIVE FACULTY COURSE)	3	0	3	5	Elective	
SECGNL4 YY	Elective Course IV (ELECTIVE DEPT. COURSE/ELECTIVE FACULTY COURSE)	3	0	3	5	Elective	
Total Credits					17	31	

5th Semester

Code	Course Name	T	U	K	ECT S	Status	Prerequisite

6th Semester

Code	Course Name	T	U	K	ECT S	Status	Prerequisite

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	Total Credits					

[illegible]

7th Semester

Code	Course Name	T	U	K	ECT S	Status	Prereq uisite
	Total Credits						

8th Semester

Code	Course Name	T	U	K	ECT S	Status	Prerequisite
	Total Credits						

TOTAL CREDITS	75
TOTAL ECTS	124

Abbreviations: T=Weekly Theoretical Hours; U=Weekly Practical Hours; K=Course Credits; ECTS= European Credit Transfer System Credits



ELECTIVE COURSES

1st Semester

Code	Course Name	T	U	K	ECT S	Status	Prereq uisite
ELECTIVE FOREIGN LANGUAGE							
ELECTIVE DEPARTMENT COURSE							
ELECTIVE FACULTY COURSE							
ELECTIVE UNIVERSITY COURSE							

2nd Semester

Code	Course Name	T	U	K	ECT S	Status	Prereq uisite
ELECTIVE FOREIGN LANGUAGE							
ELECTIVE DEPARTMENT COURSE							
ELECTIVE FACULTY COURSE							
ELECTIVE UNIVERSITY COURSE							

3rd Semester

Code	Course Name	T	U	K	ECTS	Status	Prerequisite
ELECTIVE FOREIGN LANGUAGE							
ELECTIVE DEPARTMENT COURSE							
MELK217	Measurement Techniques	3	0	3	5	Elective	
MELK232	Winding Techniques	3	0	3	5	Elective	

4th Semester

Code	Course Name	T	U	K	ECT S	Status	Prerequisite
ELECTIVE FOREIGN LANGUAGE							
ELECTIVE DEPARTMENT COURSE							
MELK217	Measurement Techniques	3	0	3	5	Elective	
MELK232	Winding Techniques	3	0	3	5	Elective	

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MELK233	Lighting Techniques	3	0	3	5	Elective	
MELK234	Electrical Installations	3	0	3	5	Elective	
MELK237	Sustainability and Environment	3	0	3	5	Elective	
ELECTIVE FACULTY COURSE							
MOSB106	Workplace Practice I	0	6	3	5	Elective	
MOSB107	Workplace Practice II	0	6	3	5	Elective	
MOSB108	Workplace Practice III	0	6	3	5	Elective	
MOSB109	Workplace Practice IV	0	6	3	5	Elective	
MIKA242	Fundamentals of Effective Communication Techniques	3	0	3	5	Elective	
MMAK211	Pumps and Compressors	3	0	3	5	Elective	
MMAK212	Hydraulic and Pneumatic Systems	3	0	3	5	Elective	
MMEK223	Introduction to Matlab/Simulink	3	0	3	5	Elective	
MMEK118	Microcontrollers I	3	0	3	6	Elective	
MMAK218	Construction Machinery	3	0	3	5	Elective	
MMEK222	Programmable Logic Controller	3	0	3	5	Elective	
MMEK209	Robotics Technology	3	0	3	5	Elective	
MGRS201	Entrepreneurship Applications	3	0	3	5	Elective	
MGSA202	Fine Arts	3	0	3	5	Elective	
MMSE201	Professional Ethics	3	0	3	5	Elective	
MISL223	General Business	3	0	3	5	Elective	
MADL230	Labor Law	3	0	3	5	Elective	
MBLP241	Basic Computer Usage	3	0	3	5	Elective	
MING253	English III	3	0	3	5	Elective	
MFIZ103	Fundamentals of Physics	3	0	3	5	Elective	
MYZO101	Introduction to Artificial Intelligence	3	0	3	5	Elective	
ELECTIVE UNIVERSITY COURSE							

MELK233	Lighting Techniques	3	0	3	5	Elective	
MELK234	Electrical Installations	3	0	3	5	Elective	
MELK237	Sustainability and Environment	3	0	3	5	Elective	
ELECTIVE FACULTY COURSE							
MOSB106	Workplace Practice I	0	6	3	5	Elective	
MOSB107	Workplace Practice II	0	6	3	5	Elective	
MOSB108	Workplace Practice III	0	6	3	5	Elective	
MOSB109	Workplace Practice IV	0	6	3	5	Elective	
MIKA242	Fundamentals of Effective Communication Techniques	3	0	3	5	Elective	
MMAK211	Pumps and Compressors	3	0	3	5	Elective	
MMAK212	Hydraulic and Pneumatic Systems	3	0	3	5	Elective	
MMEK223	Introduction to Matlab/Simulink	3	0	3	5	Elective	
MMEK118	Microcontrollers I	3	0	3	6	Elective	
MMAK218	Construction Machinery	3	0	3	5	Elective	
MMEK222	Programmable Logic Controller	3	0	3	5	Elective	
MMEK209	Robotics Technology	3	0	3	5	Elective	
MGRS201	Entrepreneurship Applications	3	0	3	5	Elective	
MGSA202	Fine Arts	3	0	3	5	Elective	
MMSE201	Professional Ethics	3	0	3	5	Elective	
MISL223	General Business	3	0	3	5	Elective	
MADL230	Labor Law	3	0	3	5	Elective	
MBLP241	Basic Computer Usage	3	0	3	5	Elective	
MING254	English IV	3	0	3	5	Elective	
MFIZ103	Fundamentals of Physics	3	0	3	5	Elective	
MYZO101	Introduction to Artificial Intelligence	3	0	3	5	Elective	
ELECTIVE UNIVERSITY COURSE							

5th Semester

Code	Course Name	T	U	K	ECTS	Status	Prerequisite
ELECTIVE FOREIGN LANGUAGE							
ELECTIVE DEPARTMENT COURSE							

6th Semester

Code	Course Name	T	U	K	ECTS	Status	Prerequisite
ELECTIVE FOREIGN LANGUAGE							
ELECTIVE DEPARTMENT COURSE							

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ELECTIVE FACULTY COURSE							
ELECTIVE UNIVERSITY COURSE							

ELECTIVE FACULTY COURSE							
ELECTIVE UNIVERSITY COURSE							

7th Semester

Code	Course Name	T	U	K	ECT S	Status	Prereq uisite
ELECTIVE FOREIGN LANGUAGE							
ELECTIVE DEPARTMENT COURSE							
ELECTIVE FACULTY COURSE							
ELECTIVE UNIVERSITY COURSE							

8th Semester

Code	Course Name	T	U	K	ECT S	Status	Prereq uisite
ELECTIVE FOREIGN LANGUAGE							
ELECTIVE DEPARTMENT COURSE							
ELECTIVE FACULTY COURSE							
ELECTIVE UNIVERSITY COURSE							