

IT IS THE CURRICULUM OF THE SOFTWARE ENGINEERING DEPARTMENT OF THE FACULTY OF TECHNOLOGY TO BE IMPLEMENTED AS OF THE 2025-2026 ACADEMIC YEAR															
FIRST YEAR															
I. Semester								II. Semester							
CURRENT COURSE CODE	RECOMMENDED COURSE CODE	Course Name	C/E	T	P	C	ECTS	CURRENT COURSE CODE	RECOMMENDED COURSE CODE	Course Name	C/E	T	P	C	ECTS
FİZ111	FİZ111	Physics I	Z	4	0	4	6	FİZ112	FİZ112	Physics II	Z	3	0	3	5
FİZ105	FİZ105	Physics Laboratory I	Z	0	2	1	2	FİZ106	FİZ106	Physics Laboratory II	Z	0	2	1	2
MAT161	MAT161	Mathematics I	Z	4	0	4	6	MAT162	MAT162	Mathematics II	Z	4	0	4	6
TRD109	TRD109	Turkish Language I	Z	2	0	2	2	TRD110	TRD110	Turkish Language II	Z	2	0	2	2
YDİ107	YDİ107	English I	Z	2	0	2	2	YDİ108	YDİ108	English II	Z	2	0	2	2
YMH111	YMT1101	Algorithm and Programming I	Z	3	2	4	6	YMH112	YMT1102	Algorithm and Programming II	Z	3	2	4	6
YMH113	YMT1103	Introduction to Computer Science	Z	3	2	4	5	YMH114	YMT1104	Fundamentals of Software Engineering	Z	3	0	3	4
YMH115	YMT1105	Software Engineering Orientation	Z	1	0	1	1	YMH211	YMT1106	Discrete Structures	Z	3	0	3	3
		Semester Total		19	6	22	30			Semester Total		20	4	22	30
SECOND YEAR															
III. Semester								IV. Semester							
CURRENT COURSE CODE	RECOMMENDED COURSE CODE	Course Name	C/E	T	P	C	ECTS	CURRENT COURSE CODE	RECOMMENDED COURSE CODE	Course Name	C/E	T	P	C	ECTS
AİT209	AİT209	History of Atatürk's Principles and Revolutions I	Z	2	0	2	2	AİT210	AİT210	History of Atatürk's Principles and Revolutions II	Z	2	0	2	2
MAT215	MAT215	Linear Algebra	Z	2	0	2	4	MAT220	MAT220	Differential Equations	Z	4	0	4	6
	YMT2101	Statistics and Data Science	Z	3	2	4	6	YMH212	YMT2102	Software Requirements and Analysis	Z	3	0	3	5
YMH312	YMT2103	Formal Languages and Automata Theory	Z	3	0	3	5	YMH310	YMT2104	Web Design and Programming	Z	3	2	4	5
YMH213	YMT2105	Professional English	Z	2	0	2	3	YMH218	YMT2106	Data Structures	Z	3	2	4	5
YMH315	YMT2107	Database Management Systems	Z	3	2	4	5	YMH319	YMT2108	Programming Languages	Z	3	0	3	4
YMH217	YMT2109	Object Oriented Programming	Z	3	2	4	5		SSD2102	<i>Social Elective Course-I</i>	S	2	0	2	3
		Semester Total		18	6	21	30			Semester Total		20	4	22	30
THIRD YEAR															
V. Semester								VI. Semester							
CURRENT COURSE CODE	RECOMMENDED COURSE CODE	Course Name	C/E	T	P	C	ECTS	CURRENT COURSE CODE	RECOMMENDED COURSE CODE	Course Name	C/E	T	P	C	ECTS
YMH311	YMT3101	Software Design and Architecture	Z	3	2	4	5		YMT3102	Software Project Management	Z	2	2	3	5
YMH313	YMT3103	Operating Systems	Z	3	2	4	5		YMT3104	Scripting Programming Languages	Z	3	2	4	5
YMH317	YMT3105	Algorithm Analysis	Z	3	0	3	5		YMT3106	Software Quality	Z	3	2	4	5
		<i>Field Elective Course</i>	S	3	2	4	6			<i>Field Elective Course</i>	S	3	2	4	6
		<i>Field Elective Course</i>	S	3	2	4	6			<i>Field Elective Course</i>	S	3	2	4	6
	SSD3101	<i>Social Elective Course-II</i>	S	2	0	2	3		SSD3102	<i>Social Elective Course-III</i>	S	2	0	2	3
		Field Elective Course List								Field Elective Course List					
YMH325	YMT3107	Microprocessors and Programming	S	3	2	4	6	YMH318	YMT3108	Optimization techniques	S	3	2	4	6
YMH327	YMT3109	Mobile Programming	S	3	2	4	6	YMH420	YMT3110	Game Design and Programming	S	3	2	4	6
	YMT3111	Signal Processing	S	3	2	4	6	YMH220	YMT3112	Advanced Programming Techniques	S	3	2	4	6
YMH320	YMT3113	Computer Graphics and Animation	S	3	2	4	6	YMH322	YMT3114	Data Mining	S	3	2	4	6
	YMT3115	Cyber Security	S	3	2	4	6		YMT3116	Advanced Web technologies	S	3	2	4	6
YMH329	YMT3117	Human Computer Interaction	S	3	2	4	6	YMH326	YMT3118	Bioinformatics	S	3	2	4	6
YMH331	YMT3119	Distributed Software Development	S	3	2	4	6		YMT3120	Natural Language Processing	S	3	2	4	6

YMH333	YMT3121	Parallel Programming	S	3	2	4	6		YMT3122	Cryptology	S	3	2	4	6
YMH335	YMT3123	Visual Programming	S	3	2	4	6	YMH332	YMT3124	Network Systems Programming	S	3	2	4	6
	YMT3125	DevOps (Software Development Strategies)	S	3	2	4	6		YMT3126	Numerical Methods	S	3	2	4	6
	YMT3127	Enterprise Resource Planning Systems	S	3	2	4	6		YMT3128	Digital Transformation in Industry	S	3	2	4	6
		Semester Total		17	8	21	30			Semester Total		16	10	21	30
FOURTH YEAR															
For Students Participating in Workplace Training in the 7th Semester															
VII. Semester								VIII. Semester							
CURRENT COURSE CODE	RECOMMENDED COURSE CODE	Course Name	C/E	T	P	C	ECTS	CURRENT COURSE CODE	RECOMMENDED COURSE CODE	Course Name	C/E	T	P	C	ECTS
YMH411	YMT4101	Workplace Training	Z	5	0	5	5	YMH455	YMT4110	Graduation Project	Z	0	2	1	3
YMH417	YMT4103	Workplace Application	Z	0	15	8	15			Field Elective Course	S	3	2	4	6
YMH413	YMT4105	Professional Practice I	Z	0	2	1	5			Field Elective Course	S	3	2	4	6
YMH415	YMT4107	Professional Practice II	Z	0	2	1	5			Field Elective Course	S	3	2	4	6
										Field Elective Course	S	3	2	4	6
									SSD4102	Social Elective Course-IV	S	2	0	2	3
										Field Elective Course List					
									YMT4112	Software Quality and Assurance	S	3	2	4	6
									YMT4114	Artificial intelligence	S	3	2	4	6
									YMT4116	Software Security	S	3	2	4	6
									YMT4118	Internet of Things	S	3	2	4	6
									YMT4120	Blockchain Technology	S	3	2	4	6
								YMH459	YMT4122	Software Engineering Current Topics	S	3	2	4	6
									YMT4124	Augmented Reality Applications	S	3	2	4	6
									YMT4126	Image Processing	S	3	2	4	6
								YMH465	YMT4128	Robot Programming	S	3	2	4	6
								YMH467	YMT4130	E-commerce	S	3	2	4	6
									YMT4132	Cloud Computing Technologies	S	3	2	4	6
									YMT4134	Big Data Analytics	S	3	2	4	6
									YMT4136	Quantum Computing	S	3	2	4	6
		Semester Total		5	19	15	30			Semester Total		14	10	19	30
For Students Participating in Workplace Training in the 8th Semester															
VII. Semester								VIII. Semester							
CURRENT COURSE CODE	RECOMMENDED COURSE CODE	Course Name	C/E	T	P	C	ECTS	CURRENT COURSE CODE	RECOMMENDED COURSE CODE	Course Name	C/E	T	P	C	ECTS
YMH455	YMT4109	Graduation Project	Z	0	2	1	3	YMH411	YMT4102	Workplace Training	Z	5	0	5	5
		Field Elective Course	S	3	2	4	6	YMH417	YMT4104	Workplace Application	Z	0	15	8	15
		Field Elective Course	S	3	2	4	6	YMH413	YMT4106	Professional Practice I	Z	0	2	1	5
		Field Elective Course	S	3	2	4	6	YMH415	YMT4108	Professional Practice II	Z	0	2	1	5
		Field Elective Course	S	3	2	4	6								
	SSD4102	Social Elective Course-IV	S	2	0	2	3								
		Field Elective Course List													
	YMT4111	Software Quality and Assurance	S	3	2	4	6								
	YMT4113	Artificial intelligence	S	3	2	4	6								

	YMT4115	Software Security	S	3	2	4	6								
	YMT4117	Internet of Things	S	3	2	4	6								
	YMT4119	Blockchain Technology	S	3	2	4	6								
YMH459	YMT4121	Software Engineering Current Topics	S	3	2	4	6								
	YMT4123	Augmented Reality Applications	S	3	2	4	6								
	YMT4125	Image Processing	S	3	2	4	6								
YMH465	YMT4127	Robot Programming	S	3	2	4	6								
YMH467	YMT4129	E-commerce	S	3	2	4	6								
	YMT4131	Cloud Computing Technologies	S	3	2	4	6								
	YMT4133	Big Data Analytics	S	3	2	4	6								
	YMT4135	Quantum Computing	S	3	2	4	6								
		Semester Total		14	10	19	30			Semester Total		5	19	15	30

Total Theoretical Course Hours	129
Total Practical Course Hours	67
Total Credits	163
Total Course Hours	196
Total ECTS Credits	240
Practical Rate	34,18