

OSTIM TECHNICAL UNIVERSITY

FACULTY OF ENGINEERING

SOFTWARE ENGINEERING

Class	Semester	Course Type	Course Code	Course Name	Theory	Practice	Lab	Credits	ECTS	Prerequisite
1	1	Compulsory	MATH 101	Engineering Mathematics I	4	0	0	4	6	
1	1	Compulsory	PHYS 101	Engineering Physics I	3	0	2	4	6	
1	1	Compulsory	CENG 109	Programming and Computation I	3	0	0	3	4	
1	1	Compulsory	ENG 101	Academic English I	3	0	0	3	3	
1	1	Compulsory	IUL 151	Introduction to University Life	2	0	0	2	2	
1	1	Compulsory	TUR 101	Turkish Language I	2	0	0	2	2	
1	1	Compulsory	MATH 201	Linear Algebra with Engineering Applications	3	0	0	3	4	
1	1	Compulsory	ATA 101	Principles of Atatürk and History of Turkish Revolution I	2	0	0	2	2	
1	1	Compulsory	EPR 121	Fundamentals of Entrepreneurship	0	2	0	1	1	
					22	2	2	24	30	

Class	Semester	Course Type	Course Code	Course Name	Theory	Practice	Lab	Credits	ECTS	Prerequisite
1	2	Compulsory	MATH 102	Engineering Mathematics II	4	0	0	4	6	MATH 101
1	2	Compulsory	PHYS 102	Engineering Physics II	3	0	2	4	6	
1	2	Compulsory	CENG110	Programming and Computation II	3	0	0	3	4	CENG 109
1	2	Compulsory	ENG 102	Academic English II	3	0	0	3	3	
1	2	Compulsory	WED 128	Workplace Education	0	4	0	2	1	
1	2	Compulsory	SENG116	Object Oriented Programming	3	0	0	3	4	
1	2	Compulsory	IUL 152	Building the Future	1	0	0	1	1	
1	2	Compulsory	ATA 102	Principles of Atatürk and History of Turkish Revolution II	2	0	0	2	2	
1	2	Compulsory	EPR 122	Entrepreneurship Project	0	2	0	1	1	
1	2	Compulsory	TUR 102	Turkish Language II	2	0	0	2	2	
					21	6	2	25	30	

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2	3	Compulsory	MATH 202	Differential Equations	4	0	0	4	5	MATH 101
2	3	Compulsory	CENG 213	Discrete Computing Structures	3	0	0	3	6	
2	3	Compulsory	SENG 207	Human-Computer Interaction	0	6	0	3	4	
2	3	Elective	NTE 1	Non-Technical Elective	3	0	0	3	3	
2	3	Compulsory	WAP 227	Workplace Application I	0	6	0	3	3	
2	3	Compulsory	FRL 211	Optional Foreign Language I	3	0	0	3	3	
2	3	Compulsory	CENG 205	Data Structures and Algorithms	3	0	0	3	6	CENG 110
					16	12	0	22	30	

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2	4	Compulsory	SENG 305	Formal Languages and Automata	3	0	0	3	7	
2	4	Compulsory	SENG 202	Introduction to Database Systems	3	0	0	3	6	
2	4	Compulsory	SENG 204	Software Engineering	3	0	2	4	6	
2	4	Compulsory	WAP 228	Workplace Application II	0	6	0	3	3	
2	4	Compulsory	MATH 204	Probability and Statistics for Engineers	3	0	0	3	5	
2	4	Compulsory	FRL 212	Optional Foreign Language II	3	0	0	3	3	
					15	6	2	19	30	

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3	5	Elective	ELEC 1	Elective Course I	3	0	0	3	5	
3	5	Compulsory	CENG 303	Operating Systems Design & Construction	3	0	0	3	8	
3	5	Compulsory	SENG 310	Software Project Management	3	0	0	3	7	
3	5	Compulsory	SENG 312	Data Mining	3	0	0	3	6	
3	5	Compulsory	WAP 327	Workplace Application III	0	6	0	3	3	
3	5	Compulsory	LCE 301	Law Concepts for Engineering	1	0	0	1	1	
					13	6	0	16	30	

Class	Semester	Course Type	Course Code	Course Name	Theory	Practice	Lab	Credits	ECTS	Prerequisite
3	6	Compulsory	SENG 323	New Trends in Software Engineering	3	0	0	3	6	
3	6	Compulsory	SENG 314	Computer Networks	3	0	0	3	6	
3	6	Elective	ELEC 2	Elective Course II	3	0	0	3	5	
3	6	Elective	ELEC 3	Elective Course III	3	0	0	3	5	
3	6	Elective	ELEC 3	Elective Course IV	3	0	0	3	5	

3	6	Compulsory	WEX 328	Workplace Experience I	0	6	0	3	3	
					15	6	0	18	30	
Class	Semester	Course Type	Course Code	Course Name	Theory	Practice	Lab	Credits	ECTS	Prerequisite
4	7	Compulsory	WEX 427	Workplace Experience II	0	6	0	3	3	
4	7	Compulsory	CENG 401	Graduation Project I	0	2	0	1	2	
4	7	Elective	ELEC 9	Elective Course IX	3	0	0	3	5	
4	7	Elective	ELEC 5	Elective Course V	3	0	0	3	5	
4	7	Elective	ELEC 6	Elective Course VI	3	0	0	3	5	
4	7	Elective	ELEC 7	Elective Course VII	3	0	0	3	5	
4	7	Elective	ELEC 8	Elective Course VIII	3	0	0	3	5	
					15	8	0	19	30	
Class	Semester	Course Type	Course Code	Course Name	Theory	Practice	Lab	Credits	ECTS	Prerequisite
4	8	Compulsory	WEX 428	Workplace Experience III	0	30	0	15	22	
4	8	Compulsory	CENG 402	Graduation Project II	0	10	0	5	8	
					0	40	0	20	30	