Üsküdar University Faculty of Engineering and Natural Sciences Department of Electrical-Electronics Engineering 2024-2025 Academic Year (100% English)

	YEAR ONE														
	1st Term							2nd Term							
Code	Course Name	Т	Р	L	С	ECTS	Prerequisite	Code	Course Name	Т	Р	L	С	ECTS	Prerequisite
MATH101	Calculus I*	3	2	0	4	6		COME102	Introduction to Algorithms and Programming*	2	0	2	3	4	
PHYS101	Physics I*	3	0	2	4	6		EEE102	Introduction to Digital Systems	3	0	0	3	5	
CHEM101	General Chemistry I*	3	0	2	4	6		MATH102	Calculus II*	3	2	0	4	6	
EEE101	Orientation to Electrical Engineering	2	0	0	2	3		MATH104	Basic Linear Algebra*	2	2	0	3	5	
ENG103	English I	2	0	0	2	2		PHYS102	Physics II*	3	0	2	4	6	
RPSC109	Positive Psychology and Communication Skills	3	0	0	3	5		ENG104	English II	2	0	0	2	2	
RCUL103	University Culture I*	0	2	0	1	4		RCUL104	University Culture II*	0	2	0	1	4	
Total Credits		16	4	4	20	32		Total Credits		15	6	4	20	32	

	YEAR TWO														
	3rd Term							4th Term							
Code	Course Name	т	Р	L	С	ECTS	Prerequisite	Code	Course Name	т	Р	L	С	ECTS	Prerequisite
EEE201	Circuit Theory I*	3	0	2	4	5		EEE202	Circuit Theory II*	3	0	2	4	5	
EEE203	Computer Tools for Electrical Engineering	3	0	0	3	4		EEE204	Electromagnetic Field Theory	3	0	0	3	5	PHYS102
EEE205	Digital Systems Design*	3	0	2	4	6	EEE102	EEE206	Numerical Methods for Electrical Engineering	3	0	0	3	5	
EEE207	Probability and Random Variables	3	0	0	3	4		EEE208	Signals and Systems*	2	2	0	3	5	MATH102
TURK103	Turkish Language I	2	0	0	2	2		TURK104	Turkish Language II	2	0	0	2	2	
MATH203	Differential Equations*	2	2	0	3	5		ATA104	Principles of Atatürk and History of Turkish Revolution II	2	0	0	2	2	
ATA103	Principles of Atatürk and History of Turkish Revolution I	2	0	0	2	2		EEE284	Summer Practice I**	0	0	0	0	5	
RPRE104	Entrepreneurship and Project Culture	2	0	0	2	3									
Total Credits		20	2	4	23	31		Total Credits		15	2	2	17	29	

	YEAR THREE														
5th Term								6th Term							
Code	Course Name	Т	P	L	С	ECTS	Prerequisite	Code	Course Name	Т	Р	L	С	ECTS	Prerequisite
EEE301	Electronics I*	3	0	2	4	6	EEE201	EEE302	Electronics II*	3	0	2	4	6	EEE201
EEE303	Communication Engineering*	3	0	2	4	6	EEE208	EEE304	Control Systems	3	0	0	3	5	
EEE307	Introduction to Microprocessors*	2	0	2	3	5	EEE102	EEE3XX	Departmental Elective I	3	0	0	3	5	
EEE305	Electromagnetic Waves	3	0	0	3	5		EEE3XX	Departmental Elective II	3	0	0	3	5	i l
XXXXXX	Social Elective I	3	0	0	3	5		XXXXXX	Social Elective II	3	0	0	3	5	
								EEE384	Summer Practice II**	0	0	0	0	5	
Total Credits		14	0	6	17	27		Total Credits		15	0	2	16	31	

	YEAR FOUR														
	7th Term							8th Term							
Code	Course Name	Т	Р	L	С	ECTS	Prerequisite	Code	Course Name	Т	Р	L	С	ECTS	Prerequisite
EEE491	Graduation Project	2	0	0	2	8		EEE492	Graduation Thesis*	0	4	0	2	8	
EEE4XX	Departmental Elective III	3	0	0	3	5		EEE4XX	Departmental Elective V	3	0	0	3	5	
EEE4XX	Departmental Elective IV	3	0	0	3	5		EEE4XX	Departmental Elective VI	3	0	0	3	5	
XXXXXX	Field Elective I	3	0	0	3	5		XXXXXX	Field Elective II	3	0	0	3	5	
XXXXXX	Social Elective III	3	0	0	3	5		OHS404	Occupational Health and Safety	4	0	0	4	4	
								XXXXXX	Field Elective III	3	0	0	3	5	
Total Credits		14	0	0	14	28		Total Credits		16	4	0	18	32	

Total Course Credits for Graduation	145
Total Course ECTS for Graduation	242
Total Elective Courses ECTS	60
Elective Course Ratio	25%
	Total Course ECTS for Graduation Total Elective Courses ECTS

^{*} These courses are under the Applied Course status.

** These courses are under the Internship Course status.

							Elective C	ourse Pool							
	Departmental Elective Courses		Social Elective Courses (Foreign Languages)												
Code	Course Name	Т	Р	L	С	ECTS	Prerequisite	Code	Course Name	Т	Р	L	С	ECTS	Prerequisite
EEE306	Electrical Machinery*	3	0	2	4	5	EEE202	ARB123	Arabic I	3	0	0	3	5	
EEE310	Introduction to Data Structures and Algorithms	3	0	0	3	5		ARB124	Arabic II	3	0	0	3	5	ARB123
EEE312	Introduction to Computational Electromagnetics	3	0	0	3	5		CHN123	Chinese I	3	0	0	3	5	
EEE313	Electronics Laboratory and Instrumentation	3	0	0	3	5		CHN124	Chinese II	3	0	0	3	5	CHN123
EEE314	Electromechanical Energy Conversion	2	0	2	3	5	EEE202	ESP123	Spanish I	3	0	0	3	5	
EEE401	Microcontrollers	3	0	0	3	5		ESP124	Spanish II	3	0	0	3	5	ESP123
EEE402	Industrial Electronics and Automation	3	0	0	3	5		FRN123	French I	3	0	0	3	5	
EEE403	Health Effects of Electromagnetic Fields and Protection	3	0	0	3	5		FRN124	French II	3	0	0	3	5	FRN123
EEE405	Introduction to Remote Sensing	3	0	0	3	5		GER123	German I	3	0	0	3	5	
EEE406	Introduction to Electromagnetic Compatibility	3	0	0	3	5		GER124	German II	3	0	0	3	5	GER123
EEE407	Microwave Electronics	3	0	0	3	5		JAP123	Japanese I	3	0	0	3	5	
EEE408	Introduction to Biomedical Signal Processing	3	0	0	3	5		JAP124	Japanese II	3	0	0	3	5	JAP123
EEE409	Wireless Wave Propagation	3	0	0	3	5		ITA123	Italian I	3	0	0	3	5	
EEE410	Introduction to Robotics	3	0	0	3	5		ITA124	Italian II	3	0	0	3	5	ITA123
EEE411	Modeling and Simulation	3	0	0	3	5		RSN123	Russian I	3	0	0	3	5	
EEE412	Embedded Systems Design	3	0	0	3	5		RSN124	Russian II	3	0	0	3	5	RSN123
EEE413	Introduction to Image Processing	3	0	0	3	5			Field Elective Courses						
EEE414	Introduction to Digital Signal Processing	3	0	0	3	5		For Field	Elective courses, any departmental elective course having appr	onrista	cradit	e fron	n oth	ar dena	rtments of
EEE415	Mobile Communication	3	0	0	3	5		TOTTIEIU	Faculty of Engineering and Natural Sciences				11 0 111	л исра	tillelits of
EEE416	Introduction to Digital Communication	3	0	0	3	5			, , ,	an be e	iectec	۵.			
EEE417	Introduction to Analog VLSI Circuits	3	0	0	3	5			Social Elective Courses						
EEE418	Integrated Circuit Design	3	0	0	3	5									
EEE419	Control Technology and Design	3	0	0	3	5		For Social E	lective courses, either foreign language course or course having	approp	oriate	credit	ts fror	n other	faculties can
EEE420	Applications of Radio Wave Propagation	3	0	0	3	5			be elected.						
EEE421	Energy Systems	3	0	0	3	5									
EEE424	High Voltage Techniques	3	0	0	3	5									
EEE451	Power System Reliability	3	0	0	3	5		1							
EEE467	Advanced Digital Design	3	0	0	3	5		1							
EEE465	Introduction to Microwave Engineering	3	0	0	3	5	EEE204	1							
EEE460	Power Systems	2	0	2	3	5	EEE202	1							
EEE461	Power Electronics	2	0	2	3	5	EEE202	1							
EEE462	Introduction to Satellite Communications	3	0	0	3	5		1							
EEE463	Distribution Systems	2	0	2	3	5	EEE202]							