

Üsküdar University
Faculty of Engineering and Natural Sciences
Department of Electrical-Electronics Engineering
2025-2026 Academic Year
(100% English)

YEAR ONE															
1st Term							2nd Term								
Code	Course Name	T	P	L	C	ECTS	Prerequisite	Code	Course Name	T	P	L	C	ECTS	Prerequisite
MATH105	Calculus I*	3	2	0	4	7		COME102	Introduction to Algorithms and Programming*	2	0	2	3	4	
PHYS103	Physics I*	3	0	2	4	7		EEE102	Introduction to Digital Systems	3	0	0	3	5	
CHEM105	General Chemistry I*	3	0	2	4	7		MATH106	Calculus II*	3	2	0	4	7	
EEF101	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		PHYS104	Physics II*	3	0	2	4	7	
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	35		Total Credits		15	6	4	20	34	

3rd Term							YEAR TWO	4th Term							
Code	Course Name	T	P	L	C	ECTS	Prerequisite	Code	Course Name	T	P	L	C	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	PHYS104
EEE205	Digital Systems Design*	3	0	2	4	6		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	MATH106
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	

5th Term							YEAR THREE	6th Term							
Code	Course Name	T	P	L	C	ECTS	Prerequisite	Code	Course Name	T	P	L	C	ECTS	Prerequisite
EEE301	Electronics I*	3	0	2	4	6	EEE201	EEE302	Electronics II*	3	0	2	4	6	EEE201
EEE307	Introduction to Microprocessors*	2	0	2	3	5	EEE102	EEE304	Control Systems	3	0	0	3	5	
EEE305	Electromagnetic Waves	3	0	0	3	5		EEE303	Communication Engineering*	3	0	2	4	6	EEE208
EEEXXX	Project I***	3	0	0	3	5		EEEXXX	Project II***	3	0	0	3	5	
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	4	16	26		Total Credits		15	0	4	17	32	

7th Term							YEAR FOUR	8th Term							
Code	Course Name	T	P	L	C	ECTS	Prerequisite	Code	Course Name	T	P	L	C	ECTS	Prerequisite
EEF491	Graduation Project	2	0	0	2	8		EEF492	Graduation Thesis*	0	4	0	2	8	
EEE4XX	Departmental Elective I	3	0	0	3	5		EEE4XX	Departmental Elective III	3	0	0	3	5	
EEE4XX	Departmental Elective II	3	0	0	3	5		EEE4XX	Departmental Elective IV	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		OH5404	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	

2025-2026	Total Course Credits for Graduation	145	* These courses are under the Applied Course status.
	Total Course ECTS for Graduation	247	** These courses are under the Internship Course status.
	Total Elective Courses ECTS	68	*** These courses are in the elective course status.
	Elective Course Ratio	28%	

Departmental Elective Courses								Social Elective Courses (Foreign Languages)							
Code	Course Name	T	P	L	C	ECTS	Prerequisite	Code	Course Name	T	P	L	C	ECTS	Prerequisite
EEE306	Electrical Machinery* (Project II)	3	0	2	4	5	EEE202	ARB123	Arabic I	3	0	0	3	5	ARB123
EEE310	Introduction to Data Structures and Algorithms	3	0	0	3	5		ARB124	Arabic II	3	0	0	3	5	
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 (Project II)	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 (Project I)	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 appropriate credits from other departments of Faculty of Engineering and Natural Sciences can be elected.							
EEE415	Mobile Communication	3	0	0	3	5		Social Elective Courses							
EEE416	Introduction to Digital Communication	3	0	0	3	5		For Social Elective courses, either foreign language course or course having appropriate credits from other faculties can be elected.							
EEE417	Introduction to Analog VLSI Circuits	3	0	0	3	5		Project I and II							
EEE418	Integrated Circuit Design	3	0	0	3	5									
EEE419	Control Technology and Design	3	0	0	3	5		Courses in Project I and Project II elective pools will be conducted project based.							
EEE420	Applications of Radio Wave Propagation	3	0	0	3	5									
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									
EEE467	Advanced Digital Design	3	0	0	3	5									
EEE465	Introduction to Microwave Engineering (Project I)	3	0	0	3	5									
EEE460	Power Systems	2	0	2	3	5	EEE202								
EEE461	Power Electronics	2	0	2	3	5	EEE202								
EEE462	Introduction to Satellite Communications	3	0	0	3	5									
EEE463	Distribution Systems	2	0	2	3	5	EEE202								
EEE469	Introduction to VLSI	3	0	0	3	5									