

Üsküdar University
Faculty of Engineering and Natural Sciences
Department of Electrical-Electronics Engineering
2023-2024 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
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	
ENG101	English I	3	0	0	3	3		PHYS102	Physics II*	3	0	2	4	6	
RPSC109	Positive Psychology and Communication Skills	3	0	0	3	5		ENG102	English II	3	0	0	3	3	
RCUL101	University Culture I*	0	2	0	1	1		RCUL102	University Culture II*	0	2	0	1	1	
Total Credits		17	4	4	21	30		Total Credits		16	6	4	21	30	

YEAR TWO															
3rd Term							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	
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	
TURK101	Turkish Language I	2	0	0	2	3		TURK102	Turkish Language II	2	0	0	2	3	
MATH203	Differential Equations*	2	2	0	3	5		ATA102	Principles of Atatürk and History of Turkish Revolution II	2	0	0	2	3	
ATA101	Principles of Atatürk and History of Turkish Revolution I	2	0	0	2	3		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	33		Total Credits		15	2	2	17	31	

YEAR THREE															
5th Term							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
EEE303	Communication Engineering*	3	0	2	4	6		EEE304	Control Systems	3	0	0	3	5	
EEE307	Introduction to Microprocessors*	2	0	2	3	5		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	
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	T	P	L	C	ECTS	Prerequisite	Code	Course Name	T	P	L	C	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	
OHS401	Occupational Health and Safety I	2	0	0	2	2		OHS402	Occupational Health and Safety II	2	0	0	2	2	
XXXXXX	Social Elective III	3	0	0	3	5		XXXXXX	Field Elective III	3	0	0	3	5	
Total Credits		16	0	0	16	30		Total Credits		14	4	0	16	30	

2023-2024	Total Course Credits for Graduation	147
	Total Course ECTS for Graduation	242
	Total Elective Courses ECTS	60
	Elective Course Ratio	25%

* These courses are under the Applied Course status.
** These courses are under the Internship Course status.

Elective Course Pool															
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*	3	0	2	4	5		ARB123	Arabic I	3	0	0	3	5	
EEE308	Electromechanical Energy Conversion	3	0	0	3	5		ARB124	Arabic II	3	0	0	3	5	ARB123
EEE310	Introduction to Data Structures and Algorithms	3	0	0	3	5		CHN123	Chinese I	3	0	0	3	5	
EEE312	Introduction to Computational Electromagnetics	3	0	0	3	5		CHN124	Chinese II	3	0	0	3	5	CHN123
EEE313	Electronics Laboratory and Instrumentation	3	0	0	3	5		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
EEE404	Power Electronics	3	0	0	3	5		GER123	German I	3	0	0	3	5	
EEE405	Introduction to Remote Sensing	3	0	0	3	5		GER124	German II	3	0	0	3	5	GER123
EEE406	Introduction to Electromagnetic Compatibility	3	0	0	3	5		RSN123	Russian I	3	0	0	3	5	
EEE407	Microwave Electronics	3	0	0	3	5		RSN124	Russian II	3	0	0	3	5	RSN123
EEE408	Introduction to Biomedical Signal Processing	3	0	0	3	5									
EEE409	Wireless Wave Propagation	3	0	0	3	5									
EEF410	Introduction to Robotics	3	0	0	3	5									
EEF411	Modeling and Simulation	3	0	0	3	5									
EEF412	Embedded Systems Design	3	0	0	3	5									
EEF413	Introduction to Image Processing	3	0	0	3	5									
EEF414	Introduction to Digital Signal Processing	3	0	0	3	5									
EEF415	Mobile Communication	3	0	0	3	5									
EEF416	Introduction to Digital Communication	3	0	0	3	5									
EEF417	Introduction to Analog VLSI Circuits	3	0	0	3	5									
EEF418	Integrated Circuit Design	3	0	0	3	5									
EEF419	Control Technology and Design	3	0	0	3	5									
EEF420	Applications of Radio Wave Propagation	3	0	0	3	5									
EEF421	Energy Systems	3	0	0	3	5									
EEF422	Distribution Systems	3	0	0	3	5									
EEF423	Power Systems	3	0	0	3	5									
EEF424	High Voltage Techniques	3	0	0	3	5									
EEF450-459	Special Topics	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.

For Social Elective courses, either foreign language course or course having appropriate credits from other faculties can be elected.