



İSTANBUL ATLAS UNIVERSITY 2024-2025
FACULTY OF ENGINEERING AND NATURAL SCIENCES
ELECTRICAL-ELECTRONIC ENGINEERING DEPARTMENT

I. Semester							II. Semester										
Course Code	Course Title	T	P	Cr.	ECTS	Type	Prereq.	Course Code	Course Title	T	P	Cr.	ECTS	Type	Prereq.		
1400111001	Calculus I	4	0	4	6	Z		1400121002	Calculus II	4	0	4	6	Z			
1400111009	Programming I	1	4	3	3	Z		1400121012	Programming II	1	4	3	3	Z			
1400111005	Physics I	3	2	4	5	Z		1400121006	Physics II	3	2	4	5	Z			
1400111007	Chemistry	2	2	3	5	Z		1400121008	Discrete Mathematics	3	0	3	5	Z			
1400111011	Introduction to Engineering and Ethics	2	0	2	3	Z		1400121010	Linear Algebra	2	0	2	5	Z			
5010111015	Türk Dili	4	0	4	4	Z		5010111012	Almanca II	2	0	2	2	Z			
5010111005	Kariyer Planlama	1	0	1	2	Z		5010111002	Atatürk İlkeleri ve İnkılap Tarihi	4	0	4	4	Z			
5010111011	Almanca I	2	0	2	2	Z											
TOTAL							23	30	TOTAL							22	30
III. Semester							IV. Semester										
Course Code	Course Title	T	P	Cr.	ECTS	Type	Prereq.	Course Code	Course Title	T	P	Cr.	ECTS	Type	Prereq.		
1400211015	Differential Equations	3	0	3	6	Z		1400221012	Occupational Safety and Health	2	0	2	2	Z			
1400211019	Electrical Circuits	3	2	4	6	Z		1400221030	Numerical Methods	2	2	3	7	Z			
1400211021	Digital Design	2	2	3	5	Z		1400221022	Signals and Systems	3	0	3	6	Z			
1416211001	Electromagnetic Fields	3	0	3	7	Z		1400221024	Microprocessors	2	2	3	6	Z			
1400211013	Probability and Statistics	3	0	3	6	Z		1400221028	Electronic Circuits I	3	2	4	6	Z			
								1416221006	Summer Training I	0	0	0	3	Z			
TOTAL							16	30	TOTAL							15	30
V. Semester							VI. Semester										
Course Code	Course Title	T	P	Cr.	ECTS	Type	Prereq.	Course Code	Course Title	T	P	Cr.	ECTS	Type	Prereq.		
1416311001	Electromagnetic Waves	3	0	3	5	Z		1400221020	Entrepreneurship	2	0	2	3	Z			
1416311003	Analog Communication	3	2	4	5	Z		1416321002	Microwaves, Antennas & Propagation	3	0	3	4	Z			
1416311005	Electronic Circuits II	3	2	4	5	Z		1416321004	Digital Communication	3	2	4	4	Z			
1416311007	Introduction to Control Systems	3	0	3	5	Z		1416321006	Power System Analysis	3	0	3	5	Z			
1416311009	Electrical Machines	3	0	3	5	Z		1416321008	Summer Training II	0	0	0	3	Z			
	Department Elective			3	5	S			University Elective			2	3	S			
									Department Elective			3	5	S			
									University Elective			2	3	S			
TOTAL							20	30	TOTAL							19	30
VII. Semester							VIII. Semester										
Course Code	Course Title	T	P	Cr.	ECTS	Type	Prereq.	Course Code	Course Title	T	P	Cr.	ECTS	Type	Prereq.		
1400411001	Interdisciplinary Design Studies	2	0	2	6	Z		1416421002	Graduation Project II	0	6	3	7	Z			
1416411001	Graduation Project I	0	4	2	3	Z			Department Elective			3	5	S			
	University Elective			2	3	S			Department Elective			3	5	S			
	Department Elective			3	5	S			Department Elective			3	5	S			
	Department Elective			3	5	S			University Elective			2	3	S			
	Department Elective			3	5	S			Department Elective			3	5	S			
	University Elective			2	3	S											
TOTAL							17	30	TOTAL							17	30
Total Credit/Hours		149															
Total ECTS		240															

DEPARTMENTAL ELECTIVES						
Course Code	Course Title	T	P	Cr.	ECTS	Elective
Departmental Electives						
1415002001	Introduction to Cyber Security	3	0	3	5	S
1415002003	Deep Learning	3	0	3	5	S
1415002004	Artificial intelligence	3	0	3	5	S
1415002005	Introduction to Robotics	3	0	3	5	S
1415002007	Introduction to Machine Learning	3	0	3	5	S
1415002012	Mobile Application Development	3	0	3	5	S
1415002013	Data Mining	3	0	3	5	S
1415002018	Machine Vision	3	0	3	5	S
1415002020	Geographic Information Systems	3	0	3	5	S
1415002022	Autonomous Systems	3	0	3	5	S
1415002024	Cloud Computing and Big Data Analytics	3	0	3	5	S
1415002025	Image processing	3	0	3	5	S
1415002026	Real-Time Programming	3	0	3	5	S
1415002027	Game Programming	3	0	3	5	S
1415002030	Artificial neural networks	3	0	3	5	S
1415002031	Computer Security	3	0	3	5	S
1415002032	Wireless Network Technologies and Applications	3	0	3	5	S
1415002034	Digital Whole Circuit Design	3	0	3	5	S
1415002035	Introduction to Coding Theory	3	0	3	5	S
1416002001	Digital Signal Processing	3	0	3	5	S
1416002002	Wireless Communication	3	0	3	5	S
1416002003	Communication Electronic Circuits	3	0	3	5	S
1416002004	Computational Methods in Electrical Engineering	3	0	3	5	S
1416002005	Noise in Communication	3	0	3	5	S
1416002006	Fiber Optic Communication Systems	3	0	3	5	S
1416002007	Communication Systems	3	0	3	5	S
1416002008	Digital Electronic Circuits	3	0	3	5	S
1416002010	Digital Filters and Systems	3	0	3	5	S
1416002011	Electromagnetic Compability	3	0	3	5	S
1416002012	Lightning and Indoor Installation	3	0	3	5	S
1416002013	Computer Communication Networks	3	0	3	5	S
1416002014	Radar & Sensing Systems	3	0	3	5	S
1416002015	RF Microelectronics	3	0	3	5	S
1416002016	Introduction to VLSI Circuit Design	3	0	3	5	S
1416002020	Introduction to Power Electronics	3	0	3	5	S
1416002021	Robot Dynamics and Control	3	0	3	5	S
1416002022	Photonic Systems	3	0	3	5	S
1416002023	Fundamentals of CMOS and MEMS	3	0	3	5	S
1416002024	Electrical Safety and Grounding	3	0	3	5	S
1416002025	Principles of Quantum Engineering	3	0	3	5	S
1416002026	Optoelectronics	3	0	3	5	S
1416002027	Biomedical Imaging	3	0	3	5	S
1416002028	Bioelectronics and Biosensors	2	2	3	5	S
1416002029	Power System Protection	3	0	3	5	S
1416002030	Electrical Power Transmission Systems	3	0	3	5	S
1416002031	Renewable Energy and Smart Grids	3	0	3	5	S