

ANTALYA BILIM UNIVERSITY
FACULTY OF ENGINEERING AND NATURAL SCIENCES,
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING,
2022 - 2023 ACADEMIC CURRICULUM

FRESHMAN						
1	Fall Semester	Theory	Practical	Credits	ECTS	Pre / Co -requisite
CS 101	INTRODUCTION TO PROGRAMMING I	3	2	4	6	
ACE 101	INTRODUCTION TO ACADEMIC READING AND WRITING	3	0	3	3	
MATH 101	CALCULUS I	4	2	5	6	
PHYS 101	PHYSICS I	3	0	3	4	PHYL 101(co)
PHYL 101	PHYSICS I LABORATORY	0	2	1	2	PHYS 101(co)
CHM 101	GENERAL CHEMISTRY	3	2	4	5	
TURK 101	TURKISH LANGUAGE I	2	0	2	2	
KPL 101	CAREER PLANNING	1	0	1	2	
TOTAL		19	8	23	30	

2	Bahar Dönemi	Theory	Practical	Credits	ECTS	Pre / Co -requisite
CS 104	INTRODUCTION TO PROGRAMMING IN PYTHON II	3	2	4	6	CS 101(pre)
EE 122	INTRODUCTION TO ELECTRICAL AND ELECTRONICS ENGINEERING AND ETHICS	2	0	2	2	
ACE 102	ACADEMIC READING AND WRITING	3	0	3	3	ACE 101(pre)
MATH 102	CALCULUS II	4	2	5	6	MATH 101(pre)
PHYS 102	PHYSICS II	3	0	3	4	PHYL 102(co)
PHYL 102	PHYSICS II LABORATORY	0	2	1	2	PHYS 102(co)
MATH 210	LINEAR ALGEBRA	4	2	5	5	
TURK 102	TURKISH LANGUAGE II	2	0	2	2	
TOTAL		21	8	25	30	

COURSES	NUMBER OF COURSES	CREDITS	ECTS
CORE COURSES	11	37	48
GENERAL COURSES	5	11	12
AREA ELECTIVE COURSES	0	0	0
NON-AREA ELECTIVE COURSES	0	0	0
1st YEAR TOTAL	16	48	60

SOPHOMORE						
3	Fall Semester	Theory	Practical	Credits	ECTS	Pre / Co -requisite
EE 213	ELECTROMAGNETIC FIELD THEORY	3	1	4	5	PHYS 102 (pre) and MATH 101 (pre)
EE 221	DIGITAL SYSTEMS	3	0	3	4	EE 223(co)
EE 223	DIGITAL SYSTEMS LABORATORY	0	2	1	2	EE 221(co)
EE 201	CIRCUIT THEORY I	3	1	4	5	EE 205(co)
EE 205	CIRCUIT THEORY I LABORATORY	0	2	1	2	EE 201(co)
ENEC 200	ENGINEERING ECONOMICS	2	2	3	4	
USD 100	NON-AREA ELECTIVE I	3	0	3	3	
MATH 202	DIFFERENTIAL EQUATIONS	4	0	4	5	MATH 102(pre), MATH 210 (pre)
TOTAL		18	8	23	30	

4	Spring Semester	Theory	Practical	Credits	ECTS	Pre / Co -requisite
EE 202	CIRCUIT THEORY II	3	1	4	5	EE 204(co) and EE 201(pre)
EE 204	CIRCUIT THEORY II LABORATORY	0	2	1	2	EE 202(co)
EE 242	MODERN PHYSICS FOR ENGINEERS	3	0	3	6	
EE 216	PROBABILITY AND STATISTICS FOR ENGINEERING	3	0	3	5	
USD 100	NON-AREA ELECTIVE II	3	0	3	3	
EE 214	ELECTROMAGNETIC WAVE THEORY	3	1	4	5	EE 213(pre)
BIO 102	BIOLOGY	3	0	3	4	
TOTAL		18	4	21	30	

COURSES	NUMBER OF COURSES	CREDITS	ECTS
CORE COURSES	13	38	54
GENERAL COURSES	0	0	0
AREA ELECTIVE COURSES	0	0	0
NON-AREA ELECTIVE COURSES	2	6	6
2nd YEAR TOTAL	15	44	60

JUNIOR						
5	Fall Semester	Theory	Practical	Credits	ECTS	Pre / Co -requisite
EE 301	SEMICONDUCTOR DEVICE PRINCIPLES	4	0	4	7	EE 242(pre)
EE 313	SIGNALS AND SYSTEMS	3	1	4	6	MATH 101(pre)
HIST 101	ATATÜRK'S PRINCIPLES AND THE HISTORY OF TURKISH REVOLUTION I	2	0	2	2	
ENAE 301	AREA ELECTIVE I	3	0	3	5	
EE 299	SUMMER TRAINING I	0	2	1	5	
MATH 330	NUMERICAL ANALYSIS FOR ENGINEERS	4	2	5	5	MATH 101(pre) ve MATH 210(pre)
TOTAL		16	5	19	30	

6	Spring Semester	Theory	Practical	Credits	ECTS	Pre / Co -requisite
EE 302	ANALOG ELECTRONICS	3	1	4	4	EE 304(co), EE 201(pre) and EE 301(pre)
EE 304	ANALOG ELECTRONICS LABORATORY	0	2	1	2	EE 302(co)
EE 332	INTRODUCTION TO TELECOMMUNICATIONS	4	0	4	6	EE 313(pre) and EE 216(pre)
HIST 102	ATATÜRK'S PRINCIPLES AND THE HISTORY OF TURKISH REVOLUTION II	2	0	2	2	
ENAE 302	AREA ELECTIVE II	3	0	3	5	
EE 342	INTRODUCTION TO CONTROL ENGINEERING	4	0	4	6	EE 313(pre)
EE 312	ENERGY CONVERSION	3	0	3	5	EE 202(pre) and EE 213(pre)
TOTAL		19	3	21	30	

COURSES	NUMBER OF COURSES	CREDITS	ECTS
CORE COURSES	9	30	46
GENERAL COURSES	2	4	4
AREA ELECTIVE COURSES	2	6	10
NON-AREA ELECTIVE COURSES	0	0	0
3rd YEAR TOTAL	13	40	60

SENIOR						
7	Fall Semester	Theory	Practical	Credits	ECTS	Pre / Co -requisite
EE 445	MICROCONTROLLERS	3	2	4	5	CS 101(pre) and EE 221(pre)
EEAE 411	DEPARTMENT ELECTIVE I	3	0	3	5	
EEAE 413	DEPARTMENT ELECTIVE II	3	0	3	5	
EE 399	SUMMER TRAINING II	0	2	1	5	
ENEN 401	TECHNICAL WRITING AND PRESENTATION	3	0	3	3	
ENWH 401	WORKER HEALTH AND OCCUPATIONAL SAFETY I	2	0	2	2	
EE 491	SENIOR PROJECT I	2	0	2	2	To have taken 165 ECTS courses and GPA: more than 1.5.
USD 100	AREA ELECTIVE III	3	0	3	3	
TOTAL		19	4	21	30	

8 Spring Semester		Theory	Practical	Credits	ECTS	Pre / Co -requisite
EAE 412	DEPARTMENT ELECTIVE III	3	0	3	5	
EAE 414	DEPARTMENT ELECTIVE IV	3	0	3	5	
EAE 406	DEPARTMENT ELECTIVE V	3	0	3	5	
ENAE 402	NON-DEPARTMENT AREA ELECTIVE III	3	0	3	5	
ENWH 402	WORKER HEALTH AND OCCUPATIONAL SAFETY II	2	0	2	2	ENWH 401(pre)
EE 492	SENIOR PROJECT II	1	4	3	6	EE 491(pre)
ENIN 404	INNOVATION AND ENTREPRENEURSHIP	2	0	2	2	
TOTAL		17	4	19	30	

COURSES	NUMBER OF COURSES	CREDITS	ECTS
CORE COURSES	4	10	18
GENERAL COURSES	4	9	9
AREA ELECTIVE COURSES	6	18	30
NON-AREA ELECTIVE COURSES	1	3	3
4th YEAR TOTAL	15	40	60

AREA ELECTIVE COURSES

		Theory	Practical	Credits	ECTS
ENIE 401	DIGITAL TRANSFORMATION IN DEFENSE	3	0	3	5
ENIE 403	PERSUASIVE TECHNOLOGIES	3	0	3	5
ENIE 404	DIGITAL TRANSFORMATION PARADOX	3	0	3	5
ENIE 406	AUGMENTED HUMAN	3	0	3	5
ENIE 410	INDEPENDENT STUDY	3	0	3	5
ENIE 420	INDUSTRY APPLICATIONS	3	2	4	5
ENIE 430	IE CLIENT PROJECT CHALLENGE	3	2	4	5
ENIE 440	INTRODUCTION TO FUZZY LOGIC	3	2	4	5
ENCS 401	WEB PROGRAMMING	3	0	3	5
ENCS 402	GRAPH THEORY	3	0	3	5
ENME 402	SIMULATION OF DYNAMIC SYSTEMS	3	0	3	5
ENME 404	MODERN MANUFACTURING METHODS	3	0	3	5
ENME 406	RENEWABLE ENERGY SYSTEMS	3	0	3	5
ENCE 401	ENGINEERING FOR SUSTAINABLE DEVELOPMENT	3	0	3	5
ENCE 402	INTELLIGENT TRANSPORTATION SYSTEMS	3	0	3	5
ENCE 404	ENVIRONMENTAL ENGINEERING	3	0	3	5
ENEE 301	LASERS	3	0	3	5
ENEE 303	BIOMEDICAL IMAGING	3	0	3	5
ENEE 302	ELECTRICAL INSTALLATIONS	3	0	3	5
ENEE 304	INTRODUCTION TO SOLAR ENERGY ENGINEERING	3	0	3	5

DEPARTMENT ELECTIVE COURSES

				Theory	Practical	Credits	ECTS
EE 403	DIGITAL ELECTRONICS	digital electronics	digital electronics	3	0	3	5
EE 433	DIGITAL COMMUNICATION	digital communication	digital communication	3	0	3	5
EE 416	PHOTONIC MATERIALS AND DEVICES	photonic materials and devices	photonic materials and devices	3	0	3	5
EE 424	INTRODUCTION TO ROBOTICS	introduction to robotics	introduction to robotics	3	0	3	5
EE 436	5G RADIO ACCESS TECHNOLOGIES	5g radio access technologies	5g radio access technologies	3	0	3	5
EE 438	DIGITAL SIGNAL PROCESSING	digital signal processing	digital signal processing	3	0	3	5
EE 484	POWER DISTRIBUTION	power distribution	power distribution	3	0	3	5
EE 486	POWER SYSTEMS ANALYSIS	power systems analysis	power systems analysis	3	0	3	5
EE 482	POWER ELECTRONICS AND APPLICATIONS	power electronics and applications	power electronics and applications	3	0	3	5

NUMBER OF COURSES AND TOTAL CREDITS

NUMBER OF COURSES
59

CREDITS
172

ECTS
240

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