

BANDIRMA ONYEDÎ EYLÜL UNIVERSITY FACULTY OF ENGINEERING AND NATURAL SCIENCES DEPARTMENT OF COMPUTER ENGINEERING 2025-2026 CURRICULUM

	I. SEMESTER/FALL										
COURSE CODE	COURSE TYPE	COURSE NAME	Т	P	C	ECTS					
FZI1101	C	Physics I	3	2	4	7					
MTI1121	C	Mathematics I	5	0	5	7					
BMI1121	C	Linear Algebra	3	0	3	4					
BMI1122	C	Introduction to Computer Engineering	2	0	2	2					
BMI1123	C	Introduction to Programming	3	2	4	4					
	SUM		16	4	18	24					
YDI1101	C	Foreign Language I	3	0	3	4					
KAR1101	C	Career Planning	1	0	1	2					
SUM			20	4	22	30					

		II. SEMESTER/SPRING				
COURSE CODE	COURSE TYPE	COURSE NAME	Т	P	С	ECTS
FZI1201	C	Physics II	3	2	4	7
MTI1221	C	Mathematics II	5	0	5	7
BMI1221	C	Discrete Mathematics	3	0	3	4
BMI1222	C	Object Oriented Programming*	3	2	4	4
BMI1223	C	Analysis of Circuits	3	2	4	4
	SUM		17	6	20	26
YDI1201	C	Foreign Language II	3	0	3	4
SUM			20	6	23	30
*	Precondition:	BMI1123 should have been taken (It will be also applied to studen	ts enrolle	d in 20)21 an	d
	previous year.	s.)				

		III. SEMESTER/FALL				
COURSE CODE	COURSE TYPE	COURSE NAME	Т	P	С	ECTS
BMI2120	C	Differential Equations	3	0	3	7
BMI2121	C	Probability and Statistics	3	0	3	7
BMI2122	C	Electronics*	3	2	4	4
BMI2123	C	Data Structures	4	0	4	4
BMI2124	C	Advanced Programming**	3	2	4	4
	Е	Elective Course I	3	0	3	4
SUM			19	4	21	30
*	Precondition: previous year	BMI1223 should have been taken (It will be also applied t s.)	o studer	its enro	olled in	2021 and
**	Precondition: BMI1222 should have been taken (It will be also applied to students enrolled in 2021 and previous years.)					

IV. SEMESTER/SPRING										
COURSE CODE	COURSE TYPE	COURSE NAME	T	P	С	ECTS				
BMI2221	C	Logic Circuits	3	0	3	4				
BMI2222	C	Programming Languages Concepts	4	0	4	6				
BMI2223	C	Database Management Systems	3	2	4	6				
BMI2224	C	Algorithms	4	0	4	5				
BMI2225	C	Internet Based Programming	3	0	3	5				
	Е	Elective Course I	3	0	3	4				
SUM			20	2	21	30				

COURSE TYPE	COURSE NAME	T	P	С	ECTS				
C	Summer Practice I	0	0	0	2				
C	Microprocessor Systems	3	2	4	4				
C	Numerical Analysis*	3	0	3	6				
C	Data Communications	3	0	3	3				
C	Computer Operating Systems	3	0	3	3				
E	Elective Course I	3	0	3	4				
E	Elective Course II	3	0	3	4				
SUM		18	2	19	26				
С	Atatürk's Principles and History of Revolutions I (UÖ)	2	0	2	2				
C	Turkish Language I	2	0	2	2				
		22	2	23	30				
	Precondition: BMI1121 should have been taken (It will be also applied to students enrolled in 2021 and								
	TYPE C C C C C E E SUM C	TYPE COURS NAME C Summer Practice I C Microprocessor Systems C Numerical Analysis* C Data Communications C Computer Operating Systems E Elective Course I E Elective Course II SUM C Attairk's Principles and History of Revolutions I (UÖ) C Turkish Language I	C	COURSE NAME	C				

		VI. SEMESTER/SPRING						
COURSE CODE	COURSE TYPE	COURSE NAME	Т	P	С	ECTS		
BMI3221	C	Automata Theory	3	0	3	3		
BMI3222	C	Signals And Systems*	3	0	3	5		
BMI3223	C	Software Engineering	2	0	2	4		
BMI3224	C	Computer Architecture**	3	0	3	4		
BMI3227	C	Computer Networks	3	0	3	4		
	E	Elective Course I	2	0	2	3		
	E	Elective Course II	2	0	2	3		
	SUM		18	0	18	26		
AIT3201	С	Atatürk's Principles and History of Revolutions II	2	0	2	2		
TDI3201	C	Turkish Language II	2	0	2	2		
SUM			22	0	22	30		
	Precondition:	BMI2121 should have been taken (It will be also applied to stude	ents enrolle	d in 20)21 an	d		
*	previous year	s.)						
	Precondition:	BMI2123 should have been taken (It will be also applied to stude	ents enrolle	d in 20	021 an	d		
**	previous years.)							

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	С	ECTS
BMI4120	C	Summer Practice II	0	0	0	2
BMI4121	С	Engineering Design	0	4	2	6
MIS4101	C	Occupational Health and Safety I	2	0	2	2
	E	Elective Course I	3	0	3	5
	E	Elective Course II	3	0	3	5
	E	Elective Course III	3	0	3	5
	E	Elective Course IV	3	0	3	5
SUM			14	4	16	30

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	С	ECT
BMI4220	C	Graduation Project *	0	4	2	3
MIS4201	C	Occupational Health and Safety II	2	0	2	2
	E	Elective Course I	3	0	3	5
	E	Elective Course II	3	0	3	5
	E	Elective Course III	3	0	3	5
	E	Elective Course IV	3	0	3	5
	Е	Elective Course V	3	0	3	5
SUM			17	4	19	30
*	Precondition: BMI4121 should have been taken (It will be also applied to students enrolled in 2021 and previous years.)					

DEPARTMENT OF COMPUTER ENGINEERING 2025-2026 ACADEMIC YEAR ELECTIVE COURSES

III. SEMESTER/FALL

IV. SEMESTER/SPRING Elective Courses

COURSE CODE	COURSE TYPE	COURSE NAME	Т	P	С	ECTS		
BMI2131	OE	Professional Foreign Language I	3	0	3	4		
BMI2132	OE	Patent and Industrial Design	3	0	3	4		
ATU2199	OE	Academic Turkish*	3	0	3	4		
*	Precondition: Foreign students can only take it.							

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	С	ECTS	
BMI2231	OE	Professional Foreign Language II	3	0	3	4	
BMI2232	OE	Engineering Management and Human Relations	3	0	3	4	
BMI2233	OE	Software Project Management	3	0	3	4	
ATU2299	OE	Academic Turkish*	3	0	3	4	
*	Precondition: Foreign students can only take it.						

V. SEMESTER/FALL

VI. SEMESTER/SPRING

		Elective Courses				
COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
BMI3141	OE	Computer Graphics	3	0	3	4
BMI3142	OE	Robotics	3	0	3	4
BMI3144	OE	Visual Programming	3	0	3	4
BMI3145	OE	Functional Programming	3	0	3	4
BMI3146	OE	Digital Design With Verilog-HDL	3	0	3	4
BMI3148	OE	Introduction to Graph Algorithms	3	0	3	4
BMI3149	OE	Entrepreneurship	3	0	3	4

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	С	ECTS
BMI3241	OE	File Organization	2	0	2	3
BMI3242	OE	Remote Sensing Technologies	2	0	2	3
BMI3243	OE	Embedded Systems	2	0	2	3
BMI3245	OE	Data Security	2	0	2	3
BMI3246	OE	System Programming	2	0	2	3
BMI3247	OE	Fundemental of Big Data	2	0	2	3

VII. SEMESTER/FALL Elective Courses

VIII. SEMESTER/SPRING Elective Courses

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	С	ECTS
BMI4141	OE	Mobile Programming	3	0	3	5
BMI4142	OE	Image Processing	3	0	3	5
BMI4143	OE	Artificial Intelligence	3	0	3	5
BMI4144	OE	Wireless Networks	3	0	3	5
BMI4145	OE	Compiler Design	3	0	3	5
BMI4146	OE	Data Mining	3	0	3	5
BMI4147	OE	Server Side Programming	3	0	3	5
BMI4148	OE	Cloud Computing	3	0	3	5
BMI4149	OE	Internet of Things	3	0	3	5
BMI4150	OE	Introduction to Social Network Analysis	3	0	3	5

COURSE CODE	COURSE TYPE	COURSE NAME	Т	P	С	ECTS
BMI4241	OE	Parallel Programming	3	0	3	5
BMI4242	OE	Game Programming	3	0	3	5
BMI4243	OE	Geographic Information Systems	3	0	3	5
BMI4244	OE	Pattern Recognition	3	0	3	5
BMI4245	OE	Bioinformatics	3	0	3	5
BMI4246	OE	Optimization Theory	3	0	3	5
BMI4247	OE	Computer Vision And Imaging Techniques	3	0	3	5
BMI4248	OE	Computer And Network Security	3	0	3	5
BMI4249	OE	Introduction to Machine Learning	3	0	3	5

Students enrolled before 2024 will follow the 2023-2024 Academic Year Curriculum. The 2023-2024 Academic Year Curriculum will also be applied to students who are admitted through vertical transfer and to those placed in the 3rd year through horizontal transfer in the 2025-2026 academic year.