

BANDIRMA ONYEDİ EYLÜL UNIVERSITY FACULTY OF ENGINEERING AND NATURAL SCIENCES DEPARTMENT OF COMPUTER ENGINEERING 2023-2024 CURRICULUM

I. SEMESTEN FALL									
COURSE CODE	COURSE TYPE	COURSE NAME	Т	P	С	ECTS			
FZI1101	C	Physics I	3	2	4	5			
MTI1121	C	Mathematics I	5	0	5	5			
BMI1121	С	Linear Algebra	3	0	3	4			
BMI1122	С	Introduction to Computer Engineering	2	0	2	2			
BMI1123	C	Introduction to Programming	3	2	4	4			
	SUM		16	4	18	20			
AIT1101	С	Atatürk's Principles and History of Revolutions I (UÖ)	2	0	2	2			
TDI1101	C	Turkish Language I	2	0	2	2			
YDI1101	С	Foreign Language I	3	0	3	4			
KAR1101	С	Career Planning	1	0	1	2			
SUM			24	4	26	30			

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	С	ECTS			
FZI1201	C	Physics II	3	2	4	5			
MTI1221	C	Mathematics II	5	0	5	5			
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	22			
AIT1201	С	Atatürk's Principles and History of Revolutions II	2	0	2	2			
TDI1201	С	Turkish Language II	2	0	2	2			
YDI1201	С	Foreign Language II	3	0	3	4			
SUM			24	6	27	30			
*		recondition: BMI1123 should have been taken (It will be also applied to students enrolled in 2021 and revious years.)							

III. SEMESTER/FALL

IV. SEMESTER/SPRING

		III. SEMESTER/FALL	_						
COURSE CODE	COURSE TYPE	COURSE NAME	Т	P	С	ECTS			
BMI2120	C	Differential Equations	3	0	3	5			
BMI2121	C	Probability and Statistics	3	0	3	5			
BMI2122	C	Electronics*	3	2	4	5			
BMI2123	C	Data Structures	4	0	4	5			
BMI2124	C	Advanced Programming**	3	2	4	6			
	E	Elective Course I	3	0	3	4			
SUM			19	4	21	30			
*	Precondition: BMI1223 should have been taken (It will be also applied to students enrolled in 2021 and previous years.)								
**		nevious years.) revious years.) revious years.)							

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	С	ECTS
BMI2221	С	Logic Circuits	3	0	3	4
BMI2222	С	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

V. SEMESTER/FALL

VI. SEMESTER/SPRING

COURSE CODE	COURSE TYPE	COURSE NAME	Т	P	C	ECTS
BMI3120	C	Summer Practice I	0	0	0	2
BMI3121	C	Microprocessor Systems	3	2	4	5
BMI3122	C	Numerical Analysis*	3	0	3	5
BMI3123	C	Data Communications	3	0	3	5
BMI3126	C	Computer Operating Systems	3	0	3	5
	E	Elective Course I	3	0	3	4
	E	Elective Course II	3	0	3	4
SUM			18	2	19	30
	Precondition:	BMI1121 should have been taken (It will be also applied to	studei	nts enr	olled in	2021 and
*	previous years.)					

COURSE CODE	COURSE TYPE	COURSE NAME	Т	P	С	ECTS
BMI3221	C	Automata Theory	3	0	3	4
BMI3222	C	Signals And Systems*	3	0	3	5
BMI3223	С	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
	E	Elective Course III	2	0	2	3
SUM			20	0	20	30
	Precondition:	BMI2121 should have been taken (It will be also applied to studen	ts enrolle	d in 2	021 an	d
*	previous year	s.)				
	Precondition:	BMI2123 should have been taken (It will be also applied to studen	ts enrolle	d in 2	021 an	d
**	previous year	s.)				

VII. SEMESTER/FALL

VIII. SEMESTER/SPRING

COURSE CODE	COURSE TYPE	COURSE NAME	Т	P	С	ECTS
BMI4120	C	Summer Practice II	0	0	0	2
BMI4121	C	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	Т	P	С	ECTS
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 studer	nts enrolle	d in 2	021 an	d
k .	previous year	s.)				

DEPARTMENT OF COMPUTER ENGINEERING 2023-2024 ACADEMIC YEAR ELECTIVE COURSES

III. SEMESTER/FALL Elective Courses

IV. SEMESTER/SPRING

COURSE CODE	COURSE TYPE	COURSE NAME	T	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 Elective Courses

VI. SEMESTER/SPRING

COURSE CODE	COURSE TYPE	COURSE NAME	Т	P	С	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

	Elective Courses									
COURSE CODE	COURSE TYPE	COURSE NAME	Т	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

VIII. SEMESTER/SPRING

Elective Courses											
COURSE CODE	COURSE TYPE	COURSE NAME	Т	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					

Elective Courses										
COURSE CODE	COURSE TYPE	COURSE NAME	T	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				