

BANDIRMA ONYEDİ EYLÜL UNIVERSITY FACULTY OF ENGINEERING AND NATURAL SCIENCES DEPARTMENT OF COMPUTER ENGINEERING 2021-2022 CURRICULUM

SUM

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	C	Linear Algebra (UÖ)	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	20
AIT1101	C	Atatürk's Principles and History of Revolutions I (UÖ)	2	0	2	2
TDI1101	C	Turkish Language I (UÖ)	2	0	2	2
YDI1101	C	Foreign Language I (UÖ)	3	0	3	4
KAR1101	C	Career Planning	1	0	1	2
GRAND SUM			24	4	26	30

COURSE	COURSE	COURSE NAME	Т	Р	С	ECTS
CODE	TYPE	COCKSETATIONE		•		Lere
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	C	Atatürk's Principles and History of Revolutions II	2	0	2	2
TDI1201	С	Turkish Language II	2	0	2	2
YDI1201	C	Foreign Language II	3	0	3	4
GRAND SU	JM		24	6	27	30
*	Precondition:	Being successful from BMI1123				

. SEM		

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	С	ECTS				
BLI2120	C	Differential Equations (UÖ)	3	0	3	5				
BMI2121	C	Probability and Statistics	3	0	3	5				
BMI2122	C	Electronics*	3	2	4	5				
BMI2123	C	Data Structures** (UÖ)	4	0	4	5				
BMI2124	C	Advanced Programming	3	2	4	6				
	Е	Elective Course I	3	0	3	4				
SUM			19	4	21	30				
*	Precondition: Being successful from BMI1223									
**	Precondition:	Being successful from BMI1222								

CODE	TYPE	COURSE NAME	T	P	С	ECTS
BMI2221	C	Logic Circuits	3	0	3	4
BMI2222	C	Programming Languages Concepts	3	2	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
	E	Elective Course I	3	0	3	4

IV. SEMESTER/SPRING

V. SEMESTER/FALI

V. SEMESTER/FALL										
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	4				
BMI3122	C	Numerical Analysis*	3	0	3	5				
BMI3123	C	Data Communications	3	0	3	5				
BMI3124	С	Computer Operating Systems	3	0	3	5				
	E	Elective Course I	3	0	3	4				
	Е	Elective Course II	3	0	3	4				
SUM			18	2	19	29				
*	Precondition:	Being successful from BMI1121								

VI. SEMESTER/SPRING

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	С	ECTS
BMI3221	C	Automata Theory	3	0	3	4
BMI3222	C	Signals And Systems*	3	0	3	5
BMI3223	C	Software Engineering	2	0	2	3
BMI3224	C	Computer Architecture**	3	0	3	4
BMI3225	C	Computer Networks	3	0	3	4
	E	Elective Course I	2	0	2	3
	E	Elective Course II	2	0	2	3
	Е	Elective Course III	2	0	2	3
SUM			20	0	20	29
*	Precondition:	Being successful from BMI2121				
**	Precondition:	Being successful from BMI2123				

VII. SEMESTER/FALL

COURSE	TYPE	COURSE NAME	T	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
	Е	Elective Course I	3	0	3	5
	E	Elective Course II	3	0	3	5
	E	Elective Course III	3	0	3	5
	Е	Elective Course IV	3	0	3	5
SUM			14	4	16	30

VIII. SEMESTER/SPRING

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				
	Е	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: Being successful from BMI4121									

DEPARTMENT OF COMPUTER ENGINEERING 2021-2022 ACADEMIC YEAR ELECTIVE COURSES III. SEMESTER/FALL IV. SEMESTER/SPRING

Elective Courses

Elective Courses

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

V. SEMESTER/FALL

Elective Courses

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	С	ECTS
BMI3141	OE	Computer Graphics	3	0	3	4
BMI3142	OE	Robotics	3	0	3	4
BMI3143	OE	Digital Design With Verilog-HDL	3	0	3	4
BMI3144	OE	Visual Programming	3	0	3	4
BMI3145	OE	Functional Programming	3	0	3	4

VI. SEMESTER/SPRING

Elective Courses

	COURSE CODE	COURSE TYPE	COURSE NAME	T	P	С	ECTS
1	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
	BMI3244	OE	System Programming	2	0	2	3
1	BMI3245	OE	Data Security	2	0	2	3

VII. SEMESTER/FALL

Elective Courses

P C

0

0

0

0 3 0 3 0 3

COURSE

CODE BMI4141

BMI4142 BMI4143 BMI4144 BMI4145

BMI4146 BMI4147 BMI4148 BMI4149

COURSE

TYPE

OE OE

OE OE

OE OE OE

COURSE NAME

Mobile Programming

Image Processing Artificial Intelligence

Wireless Networks Compiler Design

Data Mining Server Side Programming Cloud Computing Internet of Things

VIII. SEMESTER/SPRING Elective Courses

 CODE	TYPE	
BMI4241	OE	Pa
BMI4242	OE	G
BMI4243	OE	G
BMI4244	OE	Pa
BMI4245	OE	Bi
BMI4246	OE	O

Elective Courses								
ECTS		COURSE CODE	COURSE TYPE	COURSE NAME	T	P	С	ECTS
5		BMI4241	OE	Parallel Programming	3	0	3	5
5		BMI4242	OE	Game Programming	3	0	3	5
5		BMI4243	OE	Geographic Information Systems	3	0	3	5
5		BMI4244	OE	Pattern Recognition	3	0	3	5
5		BMI4245	OE	Bioinformatics	3	0	3	5
5		BMI4246	OE	Optimization Theory	3	0	3	5
5		BMI4247	OE	Computer Vision And Imaging Techniques	3	0	3	5
5		BMI4248	OE	Computer And Network Security	3	0	3	5
5								
	_			·				

||

Total number of courses	58
National Credit Sum	169
AKTS Credit Sum	238
Total course hours	183
Total number of elective courses	11
Total hours of elective courses	45
Total credits of elective courses	45
Total ECTS credits of elective courses	70
Total hours of theoritical courses	155
Total hours of practice courses	24

Total Compulsory Summer Practice: 20 working days internship at the end of IV-VI-VIII
MN: Management (Course Code: 1)
VL: Vocational Lessons (Course Code: 2)
PI: Personal Improvement (Course Code: 3)
OE: Occupational Equipment (Course Code: 4,5,...)
OC: Other Compulsory
Course Codes: First digit year, second digit term, third digit course type, furth digit course order

National Credit Sum / 128 Credit Boundary	132,0%
AKTS Credit Sum / National Credit Sum	140,8%
Total number of elective courses / National Credit Sum	26,6%
Total hours of theoritical courses / Total course hours	84,7%
Total hours of practice courses / Total course hours	13,1%
Total AKTS credits of elective courses/ AKTS Credit Sum	29,4%