BANDIRMA ONYEDİ EYLÜL UNIVERSITY
FACULTY OF ENGINEERING AND NATURAL SCIENCES
DEPARTMENT OF COMPUTER ENGINEERING 2020-2021 CURRICULUM

I. SEMESTER

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
FZI1101	C	Physics I	3	2	4	5
MTI1121	C	Mathematics I	5	0	5	5
BMI1121	C	Linear Algebra	3	0	3	4
BMI1122	C	Introduction to Computer Engineering	2	0	2	3
BMI1123	C	Introduction to Programming	3	2	3	5
KAR1101	Z	Kariyer Planlama	1	0	1	2
		SUM	17	4	18	24
AIT1101	C	Atatürk's Principles and History of Revolutions I (DL)	2	0	2	2
TDI1101	C	Turkish Language I (DL)	2	0	2	2
YDI1101	C	Foreign Language I (DL)	3	0	3	4
GRAND SUM			24	4	25	32

II. SEMESTER

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	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	C	Atatürk's Principles and History of Revolutions II (DL)	2	0	2	2
TDI1201	C	Turkish Language II (DL)	2	0	2	2
YDI1201	C	Foreign Language II (DL)	3	0	3	4
GRAND SUM			24	6	27	30

Precondition: Being successful from BMI1122

III. SEMESTER

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
BLI2120	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	3	0	3	4
SUM			19	4	21	30

Precondition: Being successful from BMI1223
**Precondition: Being successful from BMI1222*

IV. SEMESTER

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	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	3	0	3	4
SUM			19	4	21	30

V. SEMESTER

COURSE CODE	COURSE TYPE	COURSE NAME	T	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	4
BMI3123	C	Data Communications	3	0	3	4
BMI3124	C	Computer Networks	3	0	3	5
BMI3125	C	Occupational Health And Safety I	2	0	2	2
	E	Elective Course I	3	0	3	4
	E	Elective Course II	3	0	3	4
SUM			20	2	21	30

Precondition: Being successful from BMI1121

VI. SEMESTER

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
BMI3221	C	Automata Theory	3	0	3	5
BMI3222	C	Signals And Systems	3	0	3	5
BMI3223	C	Software Engineering	2	0	2	4
BMI3224	C	Computer Architecture	3	0	3	5
BMI3225	C	Computer Operating Systems	3	0	3	5
BMI3226	C	Occupational Health And Safety II	2	0	2	2
	E	Elective Course	3	0	3	4
SUM			19	0	19	30

VII. SEMESTER

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
BMI4120	C	Summer Practice II	0	0	0	2
BMI4121	C	Engineering Design	0	4	2	5
BMI4111	C	Entrepreneurship	3	0	3	3
	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			15	4	17	30

VIII. SEMESTER

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
BMI4220	C	Graduation Project *	0	4	2	5
	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
	E	Elective Course V	3	0	3	5
SUM			15	4	17	30

Precondition: Being successful from BMI4121

DEPARTMENT OF COMPUTER ENGINEERING 2020-2021 ACADEMİC YEAR ELECTİVE COURSES

III. SEMESTER

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
BMI3141	OE	Business Law	3	0	3	4
BMI3142	OE	Patent and Industrial Design	3	0	3	4
BMI3143	OE	Communication Skills	3	0	3	4
BMI3144	OE	Engineering Economics	3	0	3	4
		Project Management				

IV. SEMESTER

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
BMI3241	OE	Research and Presentation Techniques	3	0	3	4
BMI3242	OE	Engineering Management and Human Relations	3	0	3	4
BMI3243	OE	Quality Management and Standards	3	0	3	4
BMI3244	OE	Marketing Principles	3	0	3	4

V. SEMESTER

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
BMI3143	OE	System Programming	3	0	3	4
BMI3144	OE	Visual Programming	3	0	3	4

VI. SEMESTER

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
BMI3241	OE	File Organization	3	0	3	4
BMI3242	OE	Remote Sensing Technologies	3	0	3	4
BMI3243	OE	Embedded Systems	3	0	3	4
BMI3244	OE	Digital Design With Verilog-HDL	3	0	3	4

VII. SEMESTER

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	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

VIII. SEMESTER

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	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

Total number of courses	57		National Credit Sum / 128 Credit Boundary	131,3%

National Credit Sum	168	
AKTS Credit Sum	242	
Total course hours	183	
Total number of elective courses	11	
Total hours of elective courses	30	
Total credits of elective courses	30	
Total AKTS credits of elective courses	47	
Total hours of theoritical courses	155	
Total hours of practice courses	24	

AKTS Credit Sum / National Credit Sum	144,0%
Total number of elective courses / National Credit Sum	17,9%
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	19,4%

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, fjurth digit course order