



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

I. SEMESTER/FALL

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
FZ1101	C	Physics I	3	2	4	5
MT1121	C	Mathematics I	5	0	5	5
BM1121	C	Linear Algebra (UÖ)	3	0	3	4
BM1122	C	Introduction to Computer Engineering	2	0	2	2
BM1123	C	Introduction to Programming	3	2	4	4
SUM			16	4	18	20
AIT101	C	Atatürk's Principles and History of Revolutions I (UÖ)	2	0	2	2
TD1101	C	Turkish Language I (UÖ)	2	0	2	2
YD1101	C	Foreign Language I (UÖ)	3	0	3	4
KAR101	C	Career Planning	1	0	1	2
GRAND SUM			24	4	26	30

II. SEMESTER/SPRING

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
FZ1201	C	Physics II	3	2	4	5
MT1221	C	Mathematics II	5	0	5	5
BM1221	C	Discrete Mathematics	3	0	3	4
BM1222	C	Object Oriented Programming*	3	2	4	4
BM1223	C	Analysis of Circuits	3	2	4	4
SUM			17	6	20	22
AIT201	C	Atatürk's Principles and History of Revolutions II	2	0	2	2
TD1201	C	Turkish Language II	2	0	2	2
YD1201	C	Foreign Language II	3	0	3	4
GRAND SUM			24	6	27	30
* Precondition: Being successful from BM1223						

III. SEMESTER/FALL

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
BL1210	C	Differential Equations (UÖ)	3	0	3	5
BM1211	C	Probability and Statistics	3	0	3	5
BM1212	C	Electronics*	3	2	4	5
BM1213	C	Data Structures** (UÖ)	4	0	4	5
BM1214	C	Advanced Programming	3	2	4	6
	E	Elective Course I	3	0	3	4
SUM			19	4	21	30
* Precondition: Being successful from BM1223						
** Precondition: Being successful from BM1222						

IV. SEMESTER/SPRING

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
BM1221	C	Logic Circuits	3	0	3	4
BM1222	C	Programming Languages Concepts	3	2	4	6
BM1223	C	Database Management Systems	3	2	4	6
BM1224	C	Algorithms	4	0	4	5
BM1225	C	Internet Based Programming	3	0	3	5
	E	Elective Course I	3	0	3	4
SUM			19	4	21	30

V. SEMESTER/FALL

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
BM1310	C	Summer Practice I	0	0	0	2
BM1311	C	Microprocessor Systems	3	2	4	5
BM1312	C	Numerical Analysis*	3	0	3	5
BM1313	C	Data Communications	3	0	3	5
BM1314	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: Being successful from BM1121						

VI. SEMESTER/SPRING

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
BM1321	C	Automata Theory	3	0	3	4
BM1322	C	Signals And Systems*	3	0	3	5
BM1323	C	Software Engineering	2	0	2	3
BM1324	C	Computer Architecture**	3	0	3	4
BM1325	C	Computer Networks	3	0	3	5
	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: Being successful from BM1211						
** Precondition: Being successful from BM1213						

VII. SEMESTER/FALL

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
BM1410	C	Summer Practice II	0	0	0	2
BM1411	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

VIII. SEMESTER/SPRING

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
BM1420	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
	E	Elective Course V	3	0	3	5
SUM			17	4	19	30
* Precondition: Being successful from BM1411						

DEPARTMENT OF COMPUTER ENGINEERING 2021-2022 ACADEMIC YEAR ELECTIVE COURSES

III. SEMESTER/FALL

Elective Courses

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
BM12131	OE	Professional Foreign Language I	3	0	3	4
BM12132	OE	Patent and Industrial Design	3	0	3	4
ATU2199	OE	Academic Turkish*	3	0	3	4
* Precondition: Foreign students can only take it.						

IV. SEMESTER/SPRING

Elective Courses

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
BM12231	OE	Professional Foreign Language II	3	0	3	4
BM12232	OE	Engineering Management and Human Relations	3	0	3	4
BM12233	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

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
BM13141	OE	Computer Graphics	3	0	3	4
BM13142	OE	Robotics	3	0	3	4
BM13143	OE	Digital Design With Verilog-HDL	3	0	3	4
BM13144	OE	Visual Programming	3	0	3	4
BM13145	OE	Functional Programming	3	0	3	4

VI. SEMESTER/SPRING

Elective Courses

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
BM13241	OE	File Organization	2	0	2	3
BM13242	OE	Remote Sensing Technologies	2	0	2	3
BM13243	OE	Embedded Systems	2	0	2	3
BM13244	OE	System Programming	2	0	2	3
BM13245	OE	Data Security	2	0	2	3

VII. SEMESTER/FALL

Elective Courses

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
BM14141	OE	Mobile Programming	3	0	3	5
BM14142	OE	Image Processing	3	0	3	5
BM14143	OE	Artificial Intelligence	3	0	3	5
BM14144	OE	Wireless Networks	3	0	3	5
BM14145	OE	Compiler Design	3	0	3	5
BM14146	OE	Data Mining	3	0	3	5
BM14147	OE	Server Side Programming	3	0	3	5
BM14148	OE	Cloud Computing	3	0	3	5
BM14149	OE	Internet of Things	3	0	3	5

VIII. SEMESTER/SPRING

Elective Courses

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
BM14241	OE	Parallel Programming	3	0	3	5
BM14242	OE	Game Programming	3	0	3	5
BM14243	OE	Geographic Information Systems	3	0	3	5
BM14244	OE	Pattern Recognition	3	0	3	5
BM14245	OE	Bioinformatics	3	0	3	5
BM14246	OE	Optimization Theory	3	0	3	5
BM14247	OE	Computer Vision And Imaging Techniques	3	0	3	5
BM14248	OE	Computer And Network Security	3	0	3	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 theoretical courses	155
Total hours of practice courses	24

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 theoretical 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%

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, fourth digit course order