



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

I. SEMESTER/FALL

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
FZ11101	C	Physics I	3	2	4	5
MT11121	C	Mathematics I	5	0	5	5
BM11121	C	Linear Algebra	3	0	3	4
BM11122	C	Introduction to Computer Engineering	2	0	2	2
BM11123	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	2	0	2	2
YDI1101	C	Foreign Language I	3	0	3	4
KAR1101	C	Career Planning	1	0	1	2
SUM			24	4	26	30

II. SEMESTER/SPRING

COURSE CODE	COURSE TYPE	COURSE NAME	T	P	C	ECTS
FZ11201	C	Physics II	3	2	4	5
MT11221	C	Mathematics II	5	0	5	5
BM11221	C	Discrete Mathematics	3	0	3	4
BM11222	C	Object Oriented Programming*	3	2	4	4
BM11223	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	C	Turkish Language II	2	0	2	2
YDI1201	C	Foreign Language II	3	0	3	4
SUM			24	6	27	30

* Prerequisite: BM11223 should have been taken (It will be also applied to students enrolled in 2021 and previous years.)

III. SEMESTER/FALL

COURSE	COURSE	COURSE NAME	T	P	C	ECTS
BM12120	C	Differential Equations	3	0	3	5
BM12121	C	Probability and Statistics	3	0	3	5
BM12122	C	Electronics*	3	2	4	5
BM12123	C	Data Structures	4	0	4	5
BM12124	C	Advanced Programming**	3	2	4	6
	E	Elective Course I	3	0	3	4
SUM			19	4	21	30

* Prerequisite: BM12123 should have been taken (It will be also applied to students enrolled in 2021 and previous years.)
 ** Prerequisite: BM12122 should have been taken (It will be also applied to students enrolled in 2021 and previous years.)

IV. SEMESTER/SPRING

COURSE	COURSE	COURSE NAME	T	P	C	ECTS
BM12221	C	Logic Circuits	3	0	3	4
BM12222	C	Programming Languages Concepts	4	0	4	6
BM12223	C	Database Management Systems	3	2	4	6
BM12224	C	Algorithms	4	0	4	5
BM12225	C	Internet Based Programming	3	0	3	5
	E	Elective Course I	3	0	3	4
SUM			20	2	21	30

V. SEMESTER/FALL

COURSE	COURSE	COURSE NAME	T	P	C	ECTS
BM13120	C	Summer Practice I	0	0	0	2
BM13121	C	Microprocessor Systems	3	2	4	5
BM13122	C	Numerical Analysis*	3	0	3	5
BM13123	C	Data Communications	3	0	3	5
BM13125	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

* Prerequisite: BM11221 should have been taken (It will be also applied to students enrolled in 2021 and previous years.)

VI. SEMESTER/SPRING

COURSE	COURSE	COURSE NAME	T	P	C	ECTS
BM13221	C	Automata Theory	3	0	3	4
BM13222	C	Signals And Systems*	3	0	3	5
BM13223	C	Software Engineering	2	0	2	4
BM13224	C	Computer Architecture**	3	0	3	4
BM13227	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

* Prerequisite: BM12121 should have been taken (It will be also applied to students enrolled in 2021 and previous years.)
 ** Prerequisite: BM12123 should have been taken (It will be also applied to students enrolled in 2021 and previous years.)

VII. SEMESTER/FALL

COURSE	COURSE	COURSE NAME	T	P	C	ECTS
BM14120	C	Summer Practice II	0	0	0	2
BM14121	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	COURSE	COURSE NAME	T	P	C	ECTS
BM14220	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

* Prerequisite: BM14121 should have been taken (It will be also applied to students enrolled in 2021 and previous years.)

DEPARTMENT OF COMPUTER ENGINEERING 2023-2024 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

* Prerequisite: 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

* Prerequisite: 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
BM13144	OE	Visual Programming	3	0	3	4
BM13145	OE	Functional Programming	3	0	3	4
BM13146	OE	Digital Design With Verilog-HDL	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
BM13245	OE	Data Security	2	0	2	3
BM13246	OE	System Programming	2	0	2	3
BM13247	OE	Fundamental of Big Data	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
BM14150	OE	Introduction to Social Network Analysis	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
BM14249	OE	Introduction to Machine Learning	3	0	3	5