

T. C. BALIKESIR UNIVERSITY
FACULTY OF ENGINEERING COMPUTER ENGINEERING DEPARTMENT
COURSE PLAN FOR 2023-2024 ACADEMIC YEAR (Revised: April 2025)

1. SEMESTER

LESSON CODE	COURSE TITLE	Category	T	U	L	K	AKTS
MAT1101	Mathematics I	Z	3	1	0	3.5	5
FIZ1101	Physics I	Z	3	0	0	3	4
FIZ1102	Physics I Laboratory	Z	0	0	2	1	1
BIL1107	Introduction to Computer Engineering	Z	2	0	0	2	3
BIL1103	Programming I	Z	3	0	0	3	5
BIL1109	Programming Lab I	Z	0	0	2	1	1
BIL1105	Linear Algebra	Z	2	1	0	2.5	5
	TOTAL		13	2	4	16	24
AIT1101	Ataturk's Principles and History of Revolution-I	Z	2	0	0	2	2
TDI1101	Turkish Language I	Z	2	0	0	2	2
YDI1101	Foreign Language I (English)	Z	2	0	0	2	2
	TOTAL		19	2	4	22	30

2. SEMESTER

LESSON CODE	COURSE TITLE	Category	T	U	L	K	AKTS
MAT1202	Mathematics II	Z	3	1	0	3.5	5
FIZ1201	Physics II	Z	3	0	0	3	4
FIZ1202	Physics II Laboratory	Z	0	0	2	1	1
IST1202	Statistics	Z	2	1	0	2.5	3
BIL1208	Programming II	Z	3	0	0	3	5
BIL1210	Programming Lab II	Z	0	0	2	1	1
BIL1206	Discrete Mathematics	Z	3	0	0	3	5
	TOTAL		14	2	4	17	24
AIT1201	Ataturk's Principles and History of Revolution-II	Z	2	0	0	2	2
TDI1201	Turkish Language II	Z	2	0	0	2	2
YDI1201	Foreign Language II (English)	Z	2	0	0	2	2
	TOTAL		20	2	4	23	30

3. SEMESTER

LESSON CODE	COURSE TITLE	Category	T	U	L	K	AKTS
BIL2101	Differential Equations	Z	3	0	0	3	5
BIL2103	Electronic Circuits	Z	3	0	0	3	5
BIL2105	Electronic Circuits Lab.	Z	0	0	2	1	2
BIL2107	Data Structures and Algorithms	Z	3	0	0	3	5
BIL2109	Object Oriented Programming	Z	3	0	0	3	5
BMS21XX	Social Elective Course I	S	2	0	0	2	3
BMT21XX	Technical Elective Course I	S	2	0	0	2	3
	TOTAL		16	0	2	17	28

4. SEMESTER

LESSON CODE	COURSE TITLE	Category	T	U	L	K	AKTS
BIL2202	Digital Design	Z	3	0	0	3	5
BIL2214	Digital Design Lab.	Z	0	0	2	1	2
BIL2206	Visual Programming	Z	3	0	0	3	5
BIL2208	Numerical Analysis	Z	3	0	0	3	5
BIL2210	Internet Programming	Z	3	0	0	3	5
BMT213	Internship I	Z	0	0	0	0	4
BMS22XX	Social Elective Course II	S	2	0	0	2	3
BMT22XX	Technical Elective Course II	S	2	0	0	2	3
	TOTAL		16	0	2	17	32

5. SEMESTER

LESSON CODE	COURSE TITLE	Category	T	U	L	K	AKTS
BIL3101	Computer Organization	Z	3	0	0	3	5
BIL3103	Computer Networks	Z	3	0	0	3	5
BIL3107	Formal Languages and Automata	Z	3	0	0	3	5
BIL3109	Database Management Systems	Z	3	0	0	3	5
ISG3101	Occupational Health and Safety I	Z	2	0	0	2	2
USD1XXX	UEC 1	S	2	0	0	2	3
BMM31XX	Professional Elective Course	S	3	0	0	3	5
	TOTAL		19	0	0	19	30

6. SEMESTER

LESSON CODE	COURSE TITLE	Category	T	U	L	K	AKTS
BIL3202	Microprocessors and Microcontrollers	Z	3	0	0	3	5
BIL3214	Microprocessors and Microcontrollers Lab.	Z	0	0	2	1	2
BIL3210	Analysis of Algorithm	Z	3	0	0	3	5
BIL3208	Operating Systems	Z	3	0	0	3	5
ISG3202	Occupational Health and Safety II	Z	2	0	0	2	2
BMT314	Internship II	Z	0	0	0	0	3
USD2XXX	UEC 2	S	2	0	0	2	3
BMM32XX	Professional Elective Course	S	3	0	0	3	5
	TOTAL		16	0	2	17	30

7. SEMESTER

LESSON CODE	COURSE TITLE	Category	T	U	L	K	AKTS
BIL4101	Computer Engineering Design	S	3	0	0	3	5
BMM41XX	Professional Elective Course	S	3	0	0	3	5
BMM41XX	Professional Elective Course	S	3	0	0	3	5
BMM41XX	Professional Elective Course	S	3	0	0	3	5
BMM41XX	Professional Elective Course	S	3	0	0	3	5
BMM41XX	Professional Elective Course	S	3	0	0	3	5
	TOTAL		18	0	0	18	30

8. SEMESTER

LESSON CODE	COURSE TITLE	Category	T	U	L	K	AKTS
ELECTIVE PACKAGE 1							
BIL4202	Graduation Project	S	2	2	0	3	5
BMM41XX	Professional Elective Course	S	3	0	0	3	5
BMM41XX	Professional Elective Course	S	3	0	0	3	5
BMM41XX	Professional Elective Course	S	3	0	0	3	5
BMM41XX	Professional Elective Course	S	3	0	0	3	5
BMM41XX	Professional Elective Course	S	3	0	0	3	5
	TOTAL		17	2	0	18	30
ELECTIVE PACKAGE 2*							
BMU4201	Technical Training in the Workplace	S	5	26	0	18	30
	TOTAL		3	26	0	18	30

3. SEMESTER ELECTIVE COURSES

LESSON CODE	COURSE TITLE	Category	T	U	L	K	AKTS
BMS2101	ENTREPRENEURSHIP I	S	2	0	0	2	3
BMS2111	ELECTIVE FOREIGN LANGUAGE I	S	2	0	0	2	3
BMT2101	COMPUTER AIDED DESIGN	S	2	0	0	2	3

4. SEMESTER ELECTIVE COURSES

LESSON CODE	COURSE TITLE	Category	T	U	L	K	AKTS
BMS2202	ENTREPRENEURSHIP II	S	2	0	0	2	3
BMS2212	ELECTIVE FOREIGN LANGUAGE II	S	2	0	0	2	3
BMS2204	EBRU ART	S	2	0	0	2	3
BMT2204	BUSINESS LAW	S	2	0	0	2	3
BMT2202	PACKET PROGRAMS	S	2	0	0	2	3

5. SEMESTER ELECTIVE COURSES

LESSON CODE	COURSE TITLE	Category	T	U	L	K	AKTS
BMM3105	PYTHON PROGRAMMING	S	3	0	0	3	5
BMM3103	JAVA PROGRAMMING	S	3	0	0	3	5
BMM3101	PROGRAMMING LANGUAGES	S	3	0	0	3	5

6. SEMESTER ELECTIVE COURSES

LESSON CODE	COURSE TITLE	Category	T	U	L	K	AKTS
BMM3204	ADVANCED COMPUTER NETWORKS	S	3	0	0	3	5

7. SEMESTER ELECTIVE COURSES

LESSON CODE	COURSE TITLE	Category	T	U	L	K	AKTS
BMM4101	ARTIFICIAL INTELLIGENCE TECHNIQUES	S	3	0	0	3	5
BMM4103	MOBILE PROGRAMMING	S	3	0	0	3	5
BMM4115	ADVANCED INTERNET PROGRAMMING	S	3	0	0	3	5
BMM4107	SIGNALS AND SYSTEMS	S	3	0	0	3	5
BMM4111	MACHINE LEARNING	S	3	0	0	3	5
BMM4109	NATURAL LANGUAGE PROCESSING	S	3	0	0	3	5
BMM4113	GAME DEVELOPMENT	S	3	0	0	3	5
BMM4105	EMBEDDED SYSTEMS	S	3	0	0	3	5

8. SEMESTER ELECTIVE COURSES

LESSON CODE	COURSE TITLE	Category	T	U	L	K	AKTS
BMM4204	INTRODUCTION TO CRYPTOLOGY	S	3	0	0	3	5
BMM4206	SOFTWARE ENGINEERING	S	3	0	0	3	5
BMM4214	IMAGE PROCESSING	S	3	0	0	3	5
BMM4202	DATA MINING	S	3	0	0	3	5
BMM4222	NETWORK SECURITY	S	3	0	0	3	5
BMM4208	SYSTEM ANALYSIS AND DESIGN	S	3	0	0	3	5
BMM4216	PATTERN RECOGNITION	S	3	0	0	3	5
BMM4218	ROBOTICS	S	3	0	0	3	5

*The elective course pool is indicated in the attachment.

* Elective Package 2 BMU4201 Technical Training in the Workplace added