

BALIKESIR UNIVERSITY
BALIKESIR VOCATIONAL SCHOOL
DIVISION OF ELECTRONICS AND AUTOMATION
ARTIFICIAL INTELLIGENCE OPERATOR PROGRAM
2025-2026 ACADEMIC YEAR COURSE PLAN

1st Year 1st Semester course schedule						
COURSE CODE	COURSE	Category	I	A	C	ECTS
YZO1101	Introduction to Computer Science	V	2	1	2,5	2
YZO1102	Introduction to AI	V	3	1	3,5	3
YZO1103	Introduction to Data Science	V	3	1	3,5	3
YZO1104	Data Structures and Algorithms	V	3	1	3,5	5
YZO1105	Programming-I	V	3	1	3,5	4
YZO1106	Mathematics-I	V	3	1	3,5	3
YZO1107	Vocational Ethics	C	2	0	2,0	2
YZO1108	Occupational Health and Safety	C	2	0	2,0	2
TOTAL			21	6	24	24
AIT1101	Atatürk's Principles and Republic History-I	C	2	0	2	2
TDI1101	Turkish-I	C	2	0	2	2
YDI1101	English-I	C	2	0	2	2
TOTAL			27	6	30,0	30

2nd Year 1st Semester Course Schedule						
Course Code	Course Name	Category	I	A	C	ECTS
YZO2101	Simulation and Modeling	V	2	1	2,5	3
YZO2102	Operational AI	V	2	1	2,5	3
YZO2103	AI and Security	V	1	1	1,5	3
	ELECTIVE COURSES-1	E	2	1	2,5	3
	ELECTIVE COURSES-2	E	2	1	2,5	3
	ELECTIVE COURSES-3	E	2	1	2,5	3
	ELECTIVE COURSES-4	E	2	1	2,5	3
	ELECTIVE COURSES-5	E	2	1	2,5	3
	ELECTIVE COURSES-6	E	2	1	2,5	3
	ELECTIVE COURSES-7	E	2	1	2,5	3
TOTAL			19	10	24,0	30

1st year 2nd SEMESTER ELECTIVE COURSES					
Course Code	Course Name	T	A	Credit	ECTS
YZO1205	Current AI Applications	2	1	2,5	3
YZO1206	Machine Learning	2	1	2,5	3
YZO1207	Graph Theory	2	1	2,5	3
YZO1208	Learning Algorithms	2	1	2,5	3
YZO1209	Statistics and Probability	2	1	2,5	3
YZO1210	Natural Language Processing(NLP)	2	1	2,5	3
YZO1211	AI and Ethics	2	1	2,5	3
YZO1212	Internet of Things (IoT)	2	1	2,5	3
YZO1213	Quality Management Systems	2	1	2,5	3
YZO1214	Business Management	2	1	2,5	3
YZO1215	Cyber Law	2	1	2,5	3

1st Year 2nd Semester Course Schedule						
COURS E CODE	COURSE NAME	Category	I	A	C	ECTS
YZO1201	Programming-II	V	3	1	3,5	4
YZO1202	Database Management	V	3	1	3,5	4
YZO1203	ANN and Deep Learning	V	3	1	3,5	3
YZO1204	Entrepreneurship	C	2	0	2,0	2
KRY1201	Career Planning	C	2	0	2,0	2
	Elective Course 1	E	2	1	2,5	3
	Elective Course 2	E	2	1	2,5	3
	Elective Course 3	E	2	1	2,5	3
TOTAL			19	6	22	24
AIT1201	Atatürk's Principles and Republic History-II	C	2	0	2	2
TDI1201	Turkish-II	C	2	0	2	2
YDI1201	English-II	C	2	0	2	2
TOTAL			25	6	28	30

2nd YEAR 2nd SEMESTER						
Course Code	Course Name	Category	I	A	C	ECTS
YZO2201	On-the-Job Training	C	5	22	16	30
TOTAL			5	22	16,0	30

2nd YEAR 1st SEMESTER ELECTIVE COURSES					
Course Code	Course Name	T	A	Credit	ECTS
YZO2104	Vocational English	2	1	2,5	3,0
YZO2105	AI and Cloud Technologies	2	1	2,5	3,0
YZO2106	AI Hardware	2	1	2,5	3,0
YZO2107	Performance Analysis of AI Systems	2	1	2,5	3,0
YZO2108	Generative AI	2	1	2,5	3,0
YZO2109	Graphics and Animation	2	1	2,5	3,0
YZO2110	Image Processing	2	1	2,5	3,0
YZO2111	Object Oriented Programming	2	1	2,5	3,0
YZO2112	Game Programming	2	1	2,5	3,0
YZO2113	Project Managemenet and Application	2	1	2,5	3,0

T: Theoretical A: Practical Application C: Credit