

DERS PROGRAMI

I. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
BVA101	Foundations of Programming	Required Courses	3.0
BVA103	Data Science	Required Courses	5.0
BVA105	Data Structures and Algorithms	Required Courses	5.0
İNG187	English I (ENG)	Required Courses	3.0
İST111	Statistics and Probability	Required Courses	3.0
MAT841	Mathematics	Required Courses	5.0
TAR165	Atatürk's Principles and History of Turkish Revolution I	Required Courses	2.0
TÜR125	Turkish Language I	Required Courses	2.0
	Elective Courses		2.0
Sum			30

II. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
BVA102	Data Mining	Required Courses	5.0
BVA104	Fundamentals of Machine Learning	Required Courses	5.0
BVA106	Database Technologies	Required Courses	5.0
BVA108	Big Data Technologies	Required Courses	5.0
İNG188	English II (ENG)	Required Courses	3.0
TAR166	Atatürk's Principles and History of Turkish Revolution II	Required Courses	2.0
TÜR126	Turkish Language II	Required Courses	2.0
	Area Elective Courses		3.0
Sum			30

III. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
BVA201	Project Management and Applications	Required Courses	3.0
BVA203	Cloud Computing for Big Data	Required Courses	5.0
BVA205	Natural Language Processing	Required Courses	5.0
BVA207	Data Visualization	Required Courses	5.0

III. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
BVA209	Applied Data Analysis	Required Courses	5.0
	Area Elective Courses		7.0
Sum			30

IV. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
BVA202	Feature Engineering	Required Courses	5.0
BVA204	Information Technology Law and Ethics	Required Courses	3.0
BVA206	Final Project	Required Courses	6.0
STJ214	Internship	Required Courses	5.0
	Elective Courses		4.0
	Area Elective Courses		7.0
Sum			30

Area Elective Courses

Code	Course Title	Laboratory + Practice	ECTS
BVA208	Medical Data Mining (TR)	2 + 0	2.0
BVA210	Artificial Intelligence in Healthcare (TR)	2 + 0	2.0
BVA212	Internet of Things (IoT) (TR)	2 + 0	2.0
BVA211	Visualization (TR)	2 + 0	2.0
BVA213	Artificial Neural Networks (TR)	2 + 0	2.0
BVA215	The Fundamentals of Deep Learning (TR)	2 + 0	2.0
BVA217	Social Network Analysis (TR)	3 + 2	5.0
BVA214	Data Security (TR)	2 + 1	3.0
BVA216	Big Data Privacy and Security (TR)	2 + 1	3.0
BVA218	Crisis and Stress Management (TR)	2 + 0	2.0
İSG202	Occupational Health and Safety (TR)	2 + 0	3.0

Elective Courses

Code	Course Title	Laboratory + Practice	ECTS
KÜL199	Cultural Activities (TR)	0 + 2	2.0

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