

COURSE STRUCTURE

2025-11166 Machine learning (AZ) Master

1					
No	Course code	Title	Th	Pr	Ects
1	KMÜH 531	Computer networks and cybersecurity	2	1+0	6
2	AZD 501	Academic writing and ethics	3	0+0	6
3	KMÜH 503	Modern data structures and algorithms	2	1+0	6
4	XXX XXX	[AE] Area elective course I #1	2	1+0	6
5	XXX XXX	[AE] Area elective course II #2	2	1+0	6
Subtotal: 30					

2					
No	Course code	Title	Th	Pr	Ects
1	İİS 637	Artificial intelligence and machine learning applications	2	1+0	6
2	İİS 532	Modern software engineering	2	1+0	6
3	ML 502	Research methods	2	1+0	6
4	XXX XXX	[AE] Area elective course III #3	2	1+0	6
5	XXX XXX	[AE] Area elective course IV #4	2	1+0	6
Subtotal: 30					

3

No	Course code	Title	Th	Pr	Ects
1	ML 601	Research analytics	2	1+0	6
2	KMÜH 504	Cloud computing and virtualization	2	1+0	6
3	İİS 639	Data science and Big data technologies	2	1+0	6
4	XXX XXX	[AE] Area elective course V #5	2	1+0	6
5	XXX XXX	[AE] Area elective course VI #6	2	1+0	6

Subtotal: 30

4

No	Course code	Title	Th	Pr	Ects
1	ML 690	Master's thesis	0	0+0	18
2	ML 680	Research Study	0	0+0	6
3	ML 670	Pedagogical Study	0	0+0	6

Subtotal: 30

Total ECTS credits: **120**

AE - Area Elective Courses

No	Course code	Title	Th	Pr	Ects
1	ML 501	Natural Language Processing (NLP)	2	1+0	6
2	ML 503	Computer vision	2	1+0	6
3	KMÜH 517	Edge and fog computing technologies	2	1+0	6
4	KMÜH 511	Internet of Things (IoT) technologies	2	1+0	6
5	ML 506	Machine learning systems and operations	2	1+0	6
6	ML 504	Deep learning and neural networks	2	1+0	6
7	İİS 544	Ethical and legal aspects in IT projects	2	1+0	6
8	İİS 516	IT project management	2	1+0	6
9	ML 603	Machine learning for Virtual and Augmented Reality (VR/AR)	2	1+0	6
10	ML 605	Introduction to Virtual and Augmented Reality (VR/AR)	2	1+0	6
11	ML 609	Responsible and ethical artificial intelligence	2	1+0	6

