

Course Structure Diagram with Course Credits

1 st Year Fall Semester						
Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
MTH113		Linear Algebra	3	0	3	4
ECC102		Programming and Problem Solving	4	2	4	4
CHM101		General Chemistry	4	2	4	5
PHY101		General Physics I	4	2	4	5
ENG101		English I	3	0	3	3
MTH101		Calculus I	4	0	4	5
YIT101		Turkish for Foreigners I	2	0	2	2
CAM101		Campus Orientation	2	0	0	2
Total						30

1 st Year Spring Semester						
Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
ECC104		Discrete Structures	3	0	3	4
ENG102	ENG101	English II	3	0	3	3
MTH102	MTH101	Calculus II	4	0	4	6
PHY102	PHY101	General Physics II	4	2	4	6
ECC108	ECC102	Object Oriented Programming	3	2	3	5
YIT102	YIT101	Turkish for Foreigners II	2	0	2	2
CHC100		Cyprus History and Culture	2	0	0	2
CAR100		Career Planning	2	0	0	2
Total						30

2 nd Year Fall Semester						
Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
ECC001	ECC104	Logic Design	4	2	4	6
ECC201	ECC102	Data Structures& Algorithms	4	2	4	6
AIE201	ECC102 ECC104	AI: Principles and Techniques	3	0	3	5

MTH201	MTH102	Differential Equations	4	0	4	6
ECC007	ECC102	Multimedia Systems	3	2	3	5
AIT103		Atatürk Principles & Reforms I	2	0	2	2
Total						30

2nd Year Spring Semester

Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
ECC202	ECC201	Database Management Systems	4	0	4	7
AIE204	MTH201	Neural Computation	3	2	3	6
AIE206	AIE201	Reasoning and Agents in AI	4	0	4	7
MTH251	MTH113	Probability and Statistics	3	0	3	6
AIT104	AIT103	Atatürk Principles & Reforms II	2	0	2	2
AIE299		Summer Training I	0	0	0	7.5
Total						35.5

3rd Year Fall Semester

Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
ECC302	ECC202	Operating Systems	3	0	3	7
AIE301	AIE204 AIE251	Pattern Recognition	3	2	3	7
ENG201	ENG102	Oral Communication Skills	3	0	3	5
AIE303	AIE204	Natural Language Processing	4	2	4	7
ECC439		Occupational Health and Safety I	2	0	2	4
Total						30

3rd Year Spring Semester

Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
AIE302	MTH251	Introduction to Machine Learning	4	2	4	6
ECC303	ECC001	Data Communications and Networking	4	2	4	6

AIE304		Learning in Humans	3	0	3	6
AIE306	AIE204	Deep Learning	3	2	3	6
ECC440	ECC439	Occupational Health and Safety II	2	0	2	4
AIE399	AIE299	Summer Training II	0	0	0	7.5
Total						35.5

4th Year Fall Semester

Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
AIE401		Introduction to Robotics	3	2	3	7
AIE403		Computer Vision	3	2	3	7
AIE491		Senior Project I	3	0	3	6
TE		Technical Elective			3	5
TE		Technical Elective			3	5
Total						30

4th Year Spring Semester

Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
ECC429		Engineering Ethics	3	0	3	6
AIE492	AIE491	Senior Project II	4	0	4	7
AIE402	AIE303	Speech Processing	3	2	3	7
TE		Technical Elective			3	5
TE		Technical Elective			3	5
Total						30

Field-Related / Technical Elective Courses

Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
ECC419		Image Processing	3	2	3	5
ECC415		Decision Making	3	2	3	5

AIE411		Advanced Data Analysis	3	2	3	5
AIE412		Information Retrieval and Web Search	3	2	3	5
AIE413		Human-Robot Interaction	3	2	3	5
AIE414		Deep Reinforcement Learning and Control	3	2	3	5
AIE415		Mobile Robot Programming	3	2	3	5
AIE416		Autonomous Agents	3	2	3	5
AIE417		Introduction to Quantum Computing	3	0	3	5
AIE418		Computer Animation & Visualization	3	2	3	5
AIE419		Algorithmic Game Theory and its Applications	3	2	3	5
AIE420		Fuzzy Systems	3	2	3	5
Non Field-Related / Non-Technical Elective Courses						
Code	Pre.	Course Name	Theory	Application/Laboratory	Local Credits	ECTS
Xxx 000						
Xxx 000						