

Software Engineering Study Plan

Semester - I						
Course Code	Course Name	T	U	L	K	AKTS
	Physics-I	2	1	1	3	5
	Calculus-I	2	2	0	3	5
	Orientation	1	0	0	1	1
	Ataturk's Principles and History of Turkish Revolution I	2	0	0	2	2
	Turkish Grammar I	2	0	0	2	2
	Career Planning	2	0	0	2	2
	Introduction to Software Engineering	3	0	0	3	7
	Introduction to Algorithms and Programming	2	1	0	3	6
Sum						30

Semester - II						
Course Code	Course Name	T	U	L	K	AKTS
	Physics-II	2	1	1	3	5
	Calculus-II	2	2	0	3	5
	Ataturk's Principles and History of Turkish Revolution II	2	0	0	2	2
	Introduction to Object Oriented Programming	2	1	0	3	6
	Turkish Grammar II	2	0	0	2	2
	Introduction to AI	2	0	0	3	6
	Law for Software Engineering	2	0	0	2	4
Sum						30

Semester - III						
Course Code	Course Name	T	U	L	K	AKTS
	Data Structures	2	2	0	3	6
	Discrete Mathematics	2	2	0	3	5
	Probability and Statistics	2	2	0	3	5
	Occupational Health And Safety-I	2	0	0	2	2
	Academic English	2	0	0	2	2
	Software Requirements Engineering	3	0	0	3	5
	Web Programming	2	2	0	3	5
Sum						30

Semester - IV						
Course Code	Course Name	T	U	L	K	AKTS
Compulsory Courses						
	Differential Equations	3	0	0	3	5
	Human Computer Interaction	2	0	0	2	3
	Software Quality Assurance	3	0	0	3	5
	Occupational Health And Safety-II	2	0	0	2	2
	Elective Course				9	15
Sum						30
Elective Courses						
	Introduction to Cryptography	3	0	0	3	5
	Computer Networks	3	0	0	3	5
	Software Security	3	0	0	3	5
	Data Mining	3	0	0	3	5
	Algorithms Analysis	3	0	0	3	5
	Geographical Information Systems	3	0	0	3	5

	Semester - V					
Course Code	Course Name	T	U	L	K	AKTS
Compulsory Courses						
	Object Oriented Analysis Design	3	0	0	3	6
	Introduction to Database and Database Management Systems	3	0	0	3	6
	Elective Course				9	18
Sum						30
Elective Courses						
	Cross-Platform Mobile Development	3	0	0	3	6
	Natural Language Processing	3	0	0	3	6
	Game Programming / AR-VR Development	3	0	0	3	6
	IoT Software Systems	3	0	0	3	6
	Artificial Intelligence	3	0	0	3	6
	Distributed Computing	3	0	0	3	6

	Semester - VI					
Course Code	Course Name	T	U	L	K	AKTS
Compulsory Courses						
	Software Engineering	3	0	0	4	6
	Software Architecture	3	0	0	4	6
	Elective Course				9	18
Sum						30
Elective Courses						
	Big Data	3	0	0	3	6
	Data Science	3	0	0	3	6
	Penetration Testing and Ethical Hacking	3	0	0	3	6
	Block-chain and Smart Contracts	3	0	0	3	6
	Parallel Computing	3	0	0	3	6
	Image Processing	3	0	0	3	6

	Semester - VII					
Course Code	Course Name	T	U	L	K	AKTS
	Project I	0	2	0	1	5
	In-service education I					25
Sum						30

	Semester - VIII					
Course Code	Course Name	T	U	L	K	AKTS
	Project II	0	2	0	1	5
	In-service education II					25
Sum						30