

Information Systems Engineering

Study Plan

Second Cycle (Master's Degree)

S: Semester, Y: Year, T: Theory, L: Laboratory, P: Practice, H: Hour

Please, click on the courses for more information.

2020/2021 Course List

1st Semester

Code	Name	Type of Course Unit	Language	T	L	P	H	ECTS
FBE501	Scientific Research Methods and Publication Ethics (ue)	Compulsory Course	Turkish	3	0	0	3	6
FBE520	Specialization Field Course	Compulsory Course	Turkish	3	0	0	3	0
BTM545	Numerical Methods With Programming Applications	Compulsory Course	Turkish	3	0	0	3	10
Total ECTS credits for Compulsory Course								16
BTM509	Digital Data Communication Systems	Elective Course Group I	Turkish	3	0	0	3	8
BTM512	Numerical Methods In Electromagnetics	Elective Course Group I	Turkish	3	0	0	3	8
BTM515	Advanced Programming Using Matlab and Simulink	Elective Course Group I	Turkish	3	0	0	3	8
BTM513	Microwave Engineering - I	Elective Course Group I	Turkish	3	0	0	3	8

BTM517	<u>Heuristic Optimization Techniques</u>	Elective Course Group I	Turkish	3	0	0	3	8
At least 14 ECTS courses will be selected		Total ECTS credits for Elective Course Group I						14
Total ECTS for 1st Semester								30

2nd Semester

Code	Name	Type of Course Unit	Language	T	L	P	H	ECTS
BTM546	<u>Advanced Topics In Discrete Mathematics</u>	Elective Course Group II	Turkish	3	0	0	3	10
BTM547	<u>Knowledge Discovery and Mining</u>	Elective Course Group II	Turkish	3	0	0	3	5
BTM544	<u>Computer Networks Modeling</u>	Elective Course Group II	Turkish	3	0	0	3	8
BTM508	<u>Performance Analysis of Computer Networks</u>	Elective Course Group II	Turkish	3	0	0	3	8
BTM548	<u>Mining of Massive Datasets</u>	Elective Course Group II	Turkish	3	0	0	3	10
BTM549	<u>Sentiment Analysis and Opinion Mining</u>	Elective Course Group II	Turkish	3	0	0	3	8
BTM507	<u>Fpga-based Digital System Design</u>	Elective Course Group II	Turkish	3	0	0	3	8
BTM511	<u>Advanced Antenna Theory and Applications</u>	Elective Course Group II	Turkish	3	0	0	3	8

BTM550	<u>Advanced Data Analysis Tools and Techniques</u>	Elective Course Group II	Turkish	3	0	0	3	8
BTM551	<u>Advanced Data Hiding Techniques</u>	Elective Course Group II	Turkish	3	0	0	3	10
BTM538	<u>Wireless Sensor Networks</u>	Elective Course Group II	Turkish	3	0	0	3	8
BTM552	<u>Complexity and Computational Theory</u>	Elective Course Group II	Turkish	3	0	0	3	10
BTM553	<u>Advanced Techniques In Text Processing and Analysis</u>	Elective Course Group II	Turkish	3	0	0	3	8
BTM514	<u>Microwave Engineering – II</u>	Elective Course Group II	Turkish	3	0	0	3	8
BTM532	<u>Parallel and Distributed Systems Programming</u>	Elective Course Group II	Turkish	3	0	0	3	10
BTM535	<u>Grid and Cloud Computing</u>	Elective Course Group II	Turkish	3	0	0	3	8
BTM554	<u>Ensemble Learning</u>	Elective Course Group II	Turkish	3	0	0	3	8
BTM543	<u>Space-time Wireless Communications Systems</u>	Elective Course Group II	Turkish	3	0	0	3	8
BTM504	<u>Controller Design With Vhdl</u>	Elective Course Group II	Turkish	3	0	0	3	8
BTM510	<u>Artificial Neural Networks</u>	Elective Course Group II	Turkish	3	0	0	3	8
At least 30 ECTS courses will be selected		Total ECTS credits for Elective Course Group II						30

Total ECTS for 2nd Semester	30
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3rd Semester

Code	Name	Type of Course Unit	Language	T	L	P	H	ECTS
FBE511	Master Thesis Seminar	Elective Course Group IV	Turkish	0	0	2	2	4
FBE541	Master Thesis	Elective Course Group IV	Turkish	0	0	0	0	30
At least 30 ECTS courses will be selected		Total ECTS credits for Elective Course Group IV						30

Total ECTS for 3rd Semester

30

4th Semester

Code	Name	Type of Course Unit	Language	T	L	P	H	ECTS
FBE541	Master Thesis	Elective Course Group III	Turkish	0	0	0	0	30
At least 30 ECTS courses will be selected		Total ECTS credits for Elective Course Group III						30

Total ECTS for 4th Semester

30

Common Course of University

Common Course of Institute of Natural and Applied Sciences

Course of Information Systems Engineering