

NEW CURRICULUM

Course Code	Course Names, 1.st Year Fall Semester	C-E	Theoretical	Practical	Local Credit	ECTS
MAT103	Calculus I	Compulsory	4	2	5	7
MAT107	Abstract Mathematics I	Compulsory	2	2	3	5
MAT111	Linear Algebra I	Compulsory	4	2	5	6
FİZ101	Physics I	Compulsory	2	2	3	5
TRD109	Turkish Language I	Compulsory	2	0	2	2
YDİ107	Foreign Language I	Compulsory	2	0	2	2
MAT109	History of Mathematics and Philosophy of Science I	Compulsory	2	0	2	2
MAT101	Introduction to University Life	Compulsory	1	0	1	1
	Total		19	8		30

Course Code	Course Names, 1.st Year Spring Semester	C-E	Theoretical	Practical	Local Credit	ECTS
MAT104	Calculus II	Compulsory	4	2	5	7
MAT108	Abstract Mathematics II	Compulsory	2	2	3	5
MAT112	Linear Algebra II	Compulsory	4	2	5	6
FİZ102	Physics II	Compulsory	2	2	3	5
TRD110	Turkish Language II	Compulsory	2	0	2	2
YDİ108	Foreign Language II	Compulsory	2	0	2	2
MAT110	History of Mathematics and Philosophy of Science II	Compulsory	2	0	2	3
	Total		18	8		30

Course Code	Course Names, 2.nd Year Fall Semester	C-E	Theoretical	Practical	Local Credit	ECTS
MAT203	Calculus III	Compulsory	4	2	5	7
MAT209	Introduction to Topology	Compulsory	4	0	4	5
MAT215	Introduction to Computer Science	Compulsory	2	2	3	4
MAT213	Analytical Geometry I	Compulsory	2	2	3	5
MAT207	Ordinary Differential Equations I	Compulsory	4	0	4	5
AİT209	History of Atatürk's Principles and Revolutions I	Compulsory	2	0	2	2
YDİ207	Foreign Language III	Compulsory	2	0	2	2
	Total		20	6		30

Course Code	Course Names, 2.nd Year Spring Semester	C-E	Theoretical	Practical	Local Credit	ECTS
MAT204	Calculus IV	Compulsory	4	2	5	7
MAT210	Real Analysis	Compulsory	4	0	4	5
MAT216	Computer Programming	Compulsory	2	2	3	4
MAT214	Analytical Geometry II	Compulsory	2	2	3	5
MAT208	Ordinary Differential Equations II	Compulsory	4	0	4	5
AİT210	History of Atatürk's Principles and Revolutions II	Compulsory	2	0	2	2
YDİ208	Foreign Language IV	Compulsory	2	0	2	2
	Total		20	6		30

Course Code	Course Names, 3.rd Year Fall Semester	C-E	Theoretical	Practical	Local Credit	ECTS
MAT303	Abstract Algebra and Numbers Theory I	Compulsory	2	2	3	6
MAT305	Differential Geometry I	Compulsory	2	2	3	5
MAT307	Numerical Analysis and its Computer Applications I	Compulsory	2	2	3	6
MAT311	Theory of Complex Functions I	Compulsory	2	2	3	5
MAT313	Partial Differential Equations I	Compulsory	2	2	3	5
	Elective Course	Elective	2	0	2	3
MAT301	Tensor Geometry	Elective				
MAT319	Transformations Geometry	Elective				
MAT321	Kinematics	Elective				
MAT323	Non-Euclidean Geometries	Elective				
MAT325	Manifolds and their Applications	Elective				
MAT327	Lorentzian Geometry	Elective				
	Total		12	10		30

Course Code	Course Names, 3.rd Year Spring Semester	C-E	Theoretical	Practical	Local Credit	ECTS
MAT304	Abstract Algebra and Numbers Theory II	Compulsory	2	2	3	6
MAT308	Numerical Analysis and its Computer Applications II	Compulsory	2	2	3	6
MAT306	Differential Geometry II	Compulsory	2	2	3	5
MAT312	Theory of Complex Functions II	Compulsory	2	2	3	5

MAT316	Partial Differential Equations II	Compulsory	2	2	3	5
	Elective Course	Elective	2	0	2	3
MAT302	Fuzzy Logic	Elective				
MAT310	Time Scales	Elective				
MAT324	Fixed Point Theory	Elective				
MAT326	Trigonometry and Curve Sketching	Elective				
MAT328	Summability Theory	Elective				
MAT330	Lebesgue Integral Theory	Elective				
	Total		12	10		30

Course Code	Course Names, 4.th Year Fall Semester	C-E	Theoretical	Practical	Local Credit	ECTS
MAT409	Functional Analysis I	Compulsory	2	2	3	6
MAT403	Applied Mathematics I	Compulsory	2	2	3	6
MAT417	Differential Geometry III	Compulsory	4	0	4	5
İST421	Probability and Statistics I	Compulsory	3	0	3	4
MAT429	Scientific Research and Document Preparation Techniques	Compulsory	2	0	2	3
MAT415	Vocational Foreign Language I	Compulsory	2	0	2	3
	Elective Course	Elective	2	0	2	3
MAT407	Introduction to Integral Equations	Elective				
MAT411	Fractional Differential Equations	Elective				
MAT431	Coding Theory	Elective				
MAT433	Financial Mathematics	Elective				
MAT435	Special Functions	Elective				
MAT437	Difference Equations	Elective				
	Total		17	4		30

Course Code	Course Names, 4.th Year Spring Semester	C-E	Theoretical	Practical	Local Credit	ECTS
MAT410	Functional Analysis II	Compulsory	2	2	3	6
MAT412	Applied Mathematics II	Compulsory	2	2	3	6
MAT418	Differential Geometry IV	Compulsory	4	0	4	5
İST422	Probability and Statistics II	Compulsory	3	0	3	4
MAT430	Graduate Project	Compulsory	0	2	2	3

MAT416	Vocational Foreign Language II	Compulsory	2	0	2	3
	Elective Course	Elective	2	0	2	3
MAT404	Computer Applications in Mathematics	Elective				
MAT414	Artificial Intelligence and its Applications	Elective				
MAT432	Astronomy	Elective				
MAT434	Occupational Ethics	Elective				
TDE220	Diction	Elective				
RTV122	Science of Communication	Elective				
	Total		15	6		30