

MASTER PROGRAMME WITH THESIS

Code	Course Name	LANG	T	A	C	ECTS	E/C
	Elective Course 1	T	3	0	3	7,5	E
	Elective Course 2	T	3	0	3	7,5	E
	Elective Course 3	T	3	0	3	7,5	E
	Elective Course 4	T	3	0	3	7,5	E
	Elective Course 5	T	3	0	3	7,5	E
	Elective Course 6	T	3	0	3	7,5	E
LEE501	Scientific Research Methods and Ethics	T	3	0	3	7,5	C
LEE503	Seminar	T	3	0	0	7,5	C
LEE505	Master Thesis	T				60	C
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SEÇİMLİK DERSLER

FBE509	Advanced Engineering Mathematics	T	3	0	3	10	E
FBE511	Measuring and Improving Job Performance	T	3	0	3	10	E
FBE516	Fuzzy Logic and Applications in Engineering	T	3	0	3	10	E
FBE517	Mathematical Modelling and Simulation	T	3	0	3	10	E
FBE518	First Course in Optimization Theory	T	3	0	3	10	E
FBE519	Applied Optimization	T	3	0	3	10	E
FBE520	Thesis Select Topics	T	3	0	3	10	E
GNL501	History and Philosophy of Science	T	3	0	3	7,5	E
GNL502	Future Science	T	3	0	3	7,5	E
GNL503	Critical and Analytical Thinking	T	3	0	3	7,5	E
GNL504	Sages of Turkish-Islamic Culture	T	3	0	3	7,5	E
GNL505	People, Society and Values	T	3	0	3	7,5	E
MAT503	Complex Function Theory	T	3	0	3	7,5	C
MAT504	Geometric Function Theory	T	3	0	3	7,5	E
MAT505	Measure Theory	T	3	0	3	7,5	C
MAT506	Analysis on Manifolds	T	3	0	3	7,5	E
MAT507	Partial Differential Equations	T	3	0	3	7,5	C
MAT508	Fourier Series and Boundary Value Problems	T	3	0	3	7,5	E
MAT509	Fractional Differential Equations	T	3	0	3	7,5	E
MAT510	Numerical Methods for Differential Equations	T	3	0	3	7,5	E
MAT511	Mathematical Physics	T	3	0	3	7,5	E
MAT512	Mathematics of Finance	T	3	0	3	7,5	E
MAT513	Metric Fixed Point Theory	T	3	0	3	7,5	E
MAT514	Fixed Point Theory	T	3	0	3	7,5	E
MAT515	Functional Analysis	T	3	0	3	7,5	C
MAT516	Hilbert Space Techniques	T	3	0	3	7,5	E
PRJ600	Advanced Topics in Scientific Project Preparation	T	3	0	3	7,5	E

SCIENTIFIC PREPARATION COURSES

Code	Course Name	LANG	T	A	C	ECTS	E/C
Undergraduate courses that is determined for student during the interview							

(*) Our graduate programs in Mathematics primarily focus on the fields of Analysis and Applied Mathematics. All students are initially admitted to the non-thesis master's program. At the end of each semester, written exams will be conducted in both Analysis and Applied Mathematics. A total of four written exams will be prepared by a committee, consisting of two exams from each area. There are no prerequisites for taking these exams, and each student is allowed to attempt each fundamental qualification exam up to two times. Students who successfully pass the exams for eight courses and the related qualification exams are assigned an academic advisor and gain the right to proceed to thesis work.

Analysis

- Measure Theory
- Complex Function Theory
- Functional Analysis
- Analysis on Manifolds
- Fourier Analysis

Applied Mathematics

- Partial Differential Equations
- Fourier Series and Boundary Value Problems
- Numerical Analysis
- Fractional Differential Equations
- Mathematical Physics