Electrical & Electronics Engineering Master of Science Programs

Electrical & Electronics Engineering Department offers outstanding graduate level academic research concentrated on the areas of signal processing, communications, microelectronics, electrical machines and power systems, control theory and biomedical applications. The Master of Science program provides the opportunity to meet the latest technology by well-equipped laboratories.

There are two alternative M.Sc. programs: With Thesis and Without Thesis.

M.Sc. Program With Thesis aims to motivate the students for modern research and prepare them for Doctor of Philosophy (Ph.D) program. Thesis is required.

M.Sc. Program Without Thesis intends to produce professionals by teaching high level courses in modern topics. A Non-credit Term Project is required.

Scientific Preparation (Deficiency) Courses

Students holding a non-EE degree or a non-bachelor degree are required to pass the Scientific Preparation courses. For each such student, The Department's M.Sc. Program Commitee will select two or more Scientific Preparation courses among the EE2XX and/or EE3XX courses in the undergraduate curriculum. The total credits of the Scientific Preparation courses should be 6 or more.

The Scientific Preparation program should be completed in not more than one year. A minimum grade of DD should be taken for each course and the grade point average should not be less than 2.00 over 4.00.

During the Scientific Preparation program a student can take only one (not more) graduate course. Students who pursue the deficiency program are also recommended to take two undergraduate courses. These courses may be counted within the compulsory course load of the M.Sc.program.

Thesis Supervisor (applicable in M.Sc. Program With-Thesis)

The thesis supervisor for the student is designated by the Administrative Board of Graduate School upon the application of the student and the recommendation of the Department no later than the end of the first semester (For this purpose, "M.Sc. Thesis Supervisor Appointment Form" must be filled).

Special Students

Admission as a "Special Student" on a course basis is possible for those not having Diploma Equivalency Certificate.

Duration of The Program

Normal duration for the M.Sc. program with thesis is 4 semesters. However students who have completed all the courses but could not complete the thesis in 4 semesters are given an additional duration of 2 semesters. M.Sc. program without thesis should be completed in not more than 6 semesters.

Regulations

The M.Sc. program in EE is conducted in accordance with the regulations of Graduate School of Natural and Applied Sciences. For more information please see “Regulations and Instructions” on the Graduate School Wep Page (http://fbe.atilim.edu.tr/en/yonetmelik-ve-yonergeler).

For detailed information:

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GRADUATE SCHOOL OF NATURAL & APPLIED SIENCES
ELECTRICAL-ELECTRONICS ENGINEERING GRADUATE PROGRAM
WITHOUT THESIS
This curriculum is VALID FOR NEW STUDENTS. Present students should visit ATACS for their curriculum.

Code	Name of the Course	T	A	C	ECTS
EE 500	Graduation Project	0	0	0	40
EE 504	Introduction to Systems Analysis	3	0	3	5
EE 506	Computational Methods in Electrical and Electronics Engineering	3	0	3	5
MDES 600	Research Methodology and Communication Skills	3	0	3	5
	Technical Elective	3	0	3	5
	Technical Elective	3	0	3	5
	Technical Elective	3	0	3	5
	Technical Elective	3	0	3	5
	Technical Elective	3	0	3	5
	Technical Elective	3	0	3	5
	Technical Elective	3	0	3	5
				30	90

GRADUATE SCHOOL OF NATURAL & APPLIED SIENCES

ELECTRICAL-ELECTRONICS ENGINEERING GRADUATE PROGRAM

WITH THESIS

This curriculum is VALID FOR NEW STUDENTS. Present students should visit ATACS for their curriculum.

Code	Name of the Course	T	A	C	ECTS
EE 597	Master's Thesis	0	0	0	80
EE 504	Introduction to Systems Analysis	3	0	3	5
EE 506	Computational Methods in Electrical and Electronics Engineering	3	0	3	5
EE 589	Graduation Seminar	0	0	0	5
MDES 600	Research Methodology and Communication Skills	3	0	3	5
	Technical Elective	3	0	3	5
	Technical Elective	3	0	3	5
	Technical Elective	3	0	3	5
	Technical Elective	3	0	3	5
				21	120

ELECTIVE COURSES

Code	Name of the Course	T	A	C	ECTS
EE503	Linear Systems Theory	3	0	3	5
EE505	Neural Networks and Applications	3	0	3	5
EE519	Speech Processing and Applications	3	0	3	5
EE525	Embedded System Design with FPGAs	3	0	3	5
EE531	Antennas and Radiowave Propagation	3	0	3	5
EE533	Wireless Networks	3	0	3	5
EE539	Optical Communications	3	0	3	5
EE542	Electronic Warfare Systems	3	0	3	5
EE543	Communication Network Design	3	0	3	5
EE545	Radar Signal Processing	3	0	3	5
EE551	Power Transmission Line Engineering	3	0	3	5
EE553	Dynamics of Electrical Machines	3	0	3	5
EE571	Digital Signal Analysis	3	0	3	5
EE572	Applications of Communications and Signal Processing	3	0	3	5
EE573	Computer Vision	3	0	3	5
EE574	Advanced Engineering Electromagnetics	3	0	3	5
EE575	RF Integrated Circuit Design	3	0	3	5
EE585	Special Topics	3	0	3	5

Students may take courses (graduate and undergraduate) as elective courses from other departments with the consent of the Department's M.Sc. Program Commitee.