COMPUTER ENGINEERING MS PROGRAM (without Thesis, in English)

"A MS Program for specialization in specific areas of computer engineereng"

Currently, computer systems, as a very important and critical component, are used in almost every area of our daily life, in industry, commerce, banking, insurance, health, company management, telecommunicatıns and Internet, automotives, construction, land/air/sea transportation, etc. Computer Engineering, when compared with other branches of engineering, is a relatively new area of engineering and aims the design, production, operation and integration with other engineering systems by using established principles of engineering. Since computer systems are being used in every aspect of our daily lives, Computer Engineering has interdisciplinary applications and has a role in almost all disciplines.

Computer Engineering MS Program (without Thesis) aims specialization in both theory and applications in Computer Engineering. Graduates of 4-year undergraduate programs can apply to the program. Graduates of the MS Program are awarded the "MS Degree in Computer Engineering"

Specialization areas in relation to research interests of faculty members span Forensics, Semantic Web, Discrete Optimization, Computer Networks, Computer Security, Design of Computer Systems, Cloud Computing, Geographical Information Systems, Distributed Systems, Formal Specification and Verification, Embedded Systems, Image Processing, Hospital Communications Systems, Theory of Computation, Business Intelligence, Operating Systems, Cryptography, Machine Learning, Ontology, Robot Motion Planning, Number Theory, Testing Theory, Cyber Security Systems, Cyber War Simulation, Data Science, Data Mining, Databases, Artificial Intelligence, Software Development and Software Engineering.

As of December 2020, **Computer Engineering MS Program (without Thesis)** is supported by 14 faculty members from the departments of Computer Engineering, Software Engineering, Mathematics, and Management Information Systems.

Computer Engineering MS Program (without Thesis) is planned to be completed in three semesters. Courses are organized in three groups, as prerequisite, mandatory and elective courses. Candidates without an undergraduate degree in computer or software engineering are expected first to complete a preparatory program of at most two semesters, then they can start the MS Program. The program has application oriented graduate courses that aim a student carry out projects alone or as part of a Project team, instead of a MS thesis. Program is in English. Courses can be offered during daytime or evenings and/or weekends, depending on the needs of students who are employed.

Graduates of Computer Engineering MS Program (without Thesis) will be able to work as engineers or researchers in private and public organizations and/or companies. Additionally, they will be able to initiate or participate in start-up companies that aim creativity, innovation and enterpreneurship. Although the program is established long time ago, students are started to be accepted to the program recently since the MS Program with Thesis was emphasized earlier. Therefore, the program has no graduates yet.