- Defines and employs systematically business processes in general, specifically software development processes, methods, techniques and measurements.
- Identifies problems in software system development, management and evolution; analyzes and provides solutions to them.
- Manages ICT, especially software engineering, projects and research projects.
- Decides and applies research methods to address problems in informatics domain, especially software engineering domain.
- Works effectively both independently and in multi-disciplinary teams as a team member or leader.

04 CAREER PROSPECTS

- Work as software engineer, information system researcher, expert and consultant, system analyst, software and system project manager
- Are employed by institutions who acquire, develop and maintain software systems
- Are entrepreneurs who establish companies that produce innovative services and products in the software and information system domain
- Pursue their careers as a scientist in any field of IT especially software engineering
- Are preferred by software systems research units of organizations
- Are preferred by information technology, telecommunications, defense, health, automotive, banking industries for the positions that require expertise in software engineering
- Are promoted to management positions in software developing organizations due to their scientific approaches and rational, systematic evaluations.

05 ADMISSION REQUIREMENTS

The program is interdisciplinary and students from all disciplines can apply. Applicants who do not have a degree in computer science or engineering are expected to have at least one year experience in a software development organization. Applications to the program are accepted for fall and spring semesters. Applications are evaluated based on the applicant's software engineering experience, academic background, ALES result and interviews held at the Informatics Institute.

CONTACT US

METU Informatics Institute, Universiteler Mahallesi, Dumlupınar Bulvarı, No:1, 06800, Ankara, Turkey

+90 (312) 210 3740
ssel@metu.edu.tr

For detailed information please visit sm.metu.edu.tr

MASTER OF SCIENCE IN SOFTWARE MANAGEMENT

Software Management is the first MS program established in Turkey to target specialized software domain knowledge. The objectives of this program are to lead the advancement of software practice in Turkey, to disseminate the domain knowledge on principles, processes, methods and techniques required to manage the development and evolution of software systems, and to bring forth experts and scientists in this field.

ODTÜ METU

INFORMATICS INSTITUTE

01 PROGRAM STRUCTURE

Software Management non-thesis master's program consists of ten three-credit courses (four core and six elective courses), a non-credit term project and a non-credit graduate seminar course. The program requirements must be fulfilled in at most five semesters (three semesters for regular program and two semesters for deficiency program; during the deficiency program, core/elective courses can be taken.).

Software Management is an evening master's program, classes mostly start at 18:00 to facilitate the attendance of working students. Students enrolled in Software Management program pay tuition fee based on the number of credit hours they register. Up to 3 elective courses can be taken from other Evening Master's Programs in METU to replace the courses given in this list with the consent of advisor.

02 COURSES

CORE COURSES

SM 502 Software Management
SM 503 Object Oriented Software Development
SM 504 Team Software Project
SM 589 Term Project
SM 590 Graduate Seminar

DEFICIENCY COURSES

SM 591 Software Management Primer - I (1-credit)
SM 592 Software Management Primer - II (1-credit)

ELECTIVE COURSES

SM 501 Personal Software Process
SM 511 Software Process Improvement
SM 514 Introduction to Software Testing
SM 515 Software Verification and Validation
SM 517 Software Metrics
SM 519 Acquisition of Software-Intensive Systems
SM 521 Software Requirements Engineering
SM 522 Agile Software Development
SM 523 Software Design Patterns
SM 525 Software Product Line Management
SM 526 Secure Software Development
SM 527 Security Engineering
SM 528 Software Architecture
SM 530 Social Network Analysis
SM 547 Model-Based Systems Engineering
SM 548 Computer Systems for Programmers
SM 549 IT Governance
SM 561 Introduction to Software Engineering

03 PROGRAM AIMS

The program targets professionals in the field. The students in the program will gain the ability to systematically define and use the knowledge on software development processes, methodologies, techniques and metrics. The program offers courses on software project management, software quality management, software acquisition management, requirements analysis, software architectures and design, software testing, human computer interaction, and software operations and maintenance. For students to gain necessary experience, design and implementation are seen as an integral part of all courses. Students are also involved in a realistic team project to integrate the knowledge and experience built up in specialized courses.

Till the completion of the program, it is aimed that a student of Software Management program will have the following knowledge, skills and behaviors:

- Knows and implements principles, processes, methods, techniques and standards necessary for software acquisition, development, management, and evolution.