



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Fundamentals of Software							
Course Code		ENF165		Course Level		First Cycle (Bachelor's Degree)			
ECTS Credit	4	Workload	99 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		The aim of this course is to examine the basic principles of software and to implement it within the framework of the project. In this context, the stages of software development and the techniques, methods and tools used in different stages are learned.							
Course Content		Basic Concepts of Software, Process Models, Project Management, System Models, Software Design, Software Reliability, Testing and Verification, Periodic Renewal of Software are discussed.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Project Based Study, Individual Study					
Name of Lecturer(s)									

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

### Recommended or Required Reading

1	Yazılım Mühendisliği Temelleri-Erhan Saridoğan
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Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to software
2	Theoretical	Software processes
3	Theoretical	Software development
4	Theoretical	System modeling
5	Theoretical	Design and implementation
6	Theoretical	Software testing
7	Theoretical	Project management
8	Intermediate Exam	Midterm Exam
9	Theoretical	Project planning
10	Theoretical	Configuration management
11	Theoretical	Software reuse
12	Theoretical	Component-based and service-oriented software
13	Theoretical	System structure
14	Theoretical	Real-time software
15	Theoretical	Real-time software
16	Final Exam	Final Exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Assignment	1	10	1	11
Individual Work	4	4	2	24
Midterm Examination	1	10	1	11



Final Examination	1	10	1	11
Total Workload (Hours)				99
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	Distinguish software processes.
2	Evaluate software process models
3	Make risk analysis in software projects.
5	Define the requirements of the software project
6	Perform maintenance and renewal activities of software projects

### Programme Outcomes (International Relations (English))

1	Students understand, evaluate and implement the basic concept and theories of the discipline of International Relations.
2	Students examine and follow up the political and social developments in the world. They understand and interpret current issues in the field of International Relations.
3	Students evaluate and explain international relations from an historical and legal perspective.
4	Students gain a general vision of international relations and political science. In that respect, they examine and analyze Turkey's place in world politics, its relationship with its neighbors and the world.
5	Students comprehend local, regional and national developments and establish links between them and global developments.
6	Students comprehend development processes, structures and functions of international political institutions and international / intergovernmental / regional organizations.
7	Students conduct research on academic and vocational subjects and interpret numerical and statistical data.
8	Students use basic computer programs and information technologies.
9	Students think analytical and critical and produce solutions within cases and problems.
10	Students follow up scientific studies on International Relations, published in English and prepare and present articles, papers, theses and reports.
11	Students are open-minded and respectful for others' thoughts and acts. They become socialized well in a social environment. They can express their opinions and thoughts easily.
12	Students take various tasks as team leader or as a member within the teamwork and are inclined to both teams work and individual work.
13	Students gain professional knowledge and theoretical background, required by the public sector, the private sector, and the international organizations and think tanks.

### Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L5	L6
P1	3				1
P2	2				
P3	1				
P5	1				1
P6	1				
P7	1				
P8	5	5	5	5	5
P10	2				
P11	1				1
P12					1
P13	2				

