Course title	Code	semester	T+U	credit	ECTS
Software Requirement and Analysis		2	3+0	3	6

Prerequisite Courses	None
Language of the Course	English
Course Level	Undergraduate
Type of Course	Compulsory
Course Coordinator	
Instructors	
Course Assistants	
The aim of lesson	The aim of this course is to provide students with an understanding of requirements engineering in line with software engineering processes and their role in this regard.
Course Content	Requirements engineering in the software lifecycle. Requirements inference and modeling: problems and techniques. Documentation and management of requirements . Standards and CASE tools. Cognitive and socio-organizational issues.
Course Learning Outcomes	Students who successfully complete this course; 1. Understand the basics of requirements development. 2. Comprehend the basics of requirements management. 3. Can use methodology, methods and tools to document requirements and software requirements identification report.

Weeks	Topics
one	Entrance
2	Basic concepts. Software Engineering and Requirements Engineering on Software Lifecycle
3	Requirements Engineering Fundamentals
4	Requirements Inference; Problems
5	Requirements Inference; Techniques
6	Requirements Assessment
7	Requirements Definition and Documentation
8	Use-case Models
9	Requirements Quality Assurance - I (Usability, Security)
10	Requirements Quality Assurance - II (Performance , Sustainability)
11th	Requirement Continuity
12	Requirements Management, Requirements tracking and change management - I
13	Requirements Management, Requirements monitoring and change management -II
14	Requirements Management: Maintenance, Control and Verification
15	Review of Socio- Organizational and Cognitive Factors

General Competencies

To be able to research and learn about any given software engineering technical concept in the most accurate way.

resources

axel von Lamsweerde , Requirements engineering From system Goals to UML Models to Software Specification , 2009, John Wiley .
Hull , E., Jackson, K. & Dick , J., Requirements Engineering , Springer , 3rd Ed., 2017

Evaluation System

The dates, days and hours of the Midterm Exam, Quiz, Final Exam and Evaluations will be announced later, according to the decision of the Faculty Administrative Board.

	WITH PROGRAM LEARNING OUTCOMES COURSE LEARNING OUTCOMES RELATIONSHIP TABLE										
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PC11**
INCREASE 1	5	5	5	5	4	4	4	5	5	4	4
INCREASE 2	5	4	4	4	4	3	3	3	5	4	5
INCREASE 3	5	5	5	4	5	3	3	3	3	3	3
LO: Learning Outcomes OP: Program Outcomes											
Contribution Level	**1 Very Low**		**2 Low**		**3 Medium**		**4 High**		**5 Very High**		

Relation of Program Outcomes and Related Course

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**
Software Requirement and Analysis	5	5	5	5	4	4	4	4	5	4	5