

Syrian Arab Republic	 الجامعة الافتراضية السورية SYRIAN VIRTUAL UNIVERSITY	الجمهورية العربية السورية
Ministry of Higher Education		وزارة التعليم العالي
Syrian Virtual University		الجامعة الافتراضية السورية

Course Definition File

1. Basic Information:

Course Name	Software Engineering
Course ID	
Contact Hours (Registered Sessions)	
Contact Hours (Synchronized Sessions)	18
Mid Term Exam	
Exam	
Registered Sessions Work Load	
Synchronized Session Work Load	
Credit Hours	

2. Pre-Requisites:

Course	ID

3. Course General Objectives:

This course covers the main concepts of object-oriented software engineering concepts. Topics include: Introduction – Software processes: Software process models, process activities, Computer-Aided Software Engineering, Unified Modeling Language (UML): Process of requirements engineering, requirements documentation and review, requirements management, System Design, Coding phase, System testing and system maintenance

Here are several course goals:

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- To help students to develop skills that will enable them to construct software of high quality and to function effectively to accomplish a common goal.
- To make students aware of key aspects of current software engineering approaches.

4. Intended Learning Outcomes (ILO):

Learning Outcomes codes	Learning Outcomes
LO1	Introduction to Software Engineering: Software Engineering principles – Professional software development – Software Characteristics – Software Applications – Software engineering ethics – Computer–Aided Software Engineering (CASE).
LO2	Software processes:
LO3	Software process models, process activities.
LO4	Software Requirements Engineering:
LO5	Process of Requirements Engineering, Requirements Documentation and review, Requirements Validation, Requirements Management, Use Case Diagram
LO7	Software Design:
LO8	Architectural Design, Design Principles , Interfaces Design
LO6	Unified Modeling Language (UML)(activity Diagram, Sequence
LO9	Diagram, Collaboration Diagram, Class Diagram, State Diagram,
LO10	Package and Component Diagram)
LO11	Coding , Testing and Maintenance:
LO12	Unit Testing, Testing Principles, Levels of Testing, Structural Testing, Functional Testing, Test Plan, System Operation and Maintenance.

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5. Course Syllabus (18 hours of total synchronized sessions)

LO	Course Syllabus	Recorded Sessions	Synchronized Sessions	Type	Additional Notes
				<input type="checkbox"/> Exercises <input type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input type="checkbox"/> Practices <input type="checkbox"/> Others	
				<input type="checkbox"/> Exercises <input type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input type="checkbox"/> Practices <input type="checkbox"/> Others	
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				<input type="checkbox"/> Exercises <input type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input type="checkbox"/> Practices <input type="checkbox"/> Others	
				<input type="checkbox"/> Exercises <input type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input type="checkbox"/> Practices <input type="checkbox"/> Others	

6. Assessment Criteria (Related to ILOs)

LO Code	LO	Intended Results	Assessment Type				
			Interactive Synchronized Collaboration	Practice	Exams	Presentations And Face-to-Face Assessments	Reports
L01							
L02							
L03							
L04							
L05							
L06							

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7. Practice Tools:

Tool Name	Description

8. Main References

Ian Sommerville, Software Engineering, 9th Ed, Addison–Wesley, 2011.
Roger S. Pressman, Software Engineering: A practitioner’s Approach, 6th ed, McGraw–Hill Science, 2009.
Grady Booch, Robert A. Maksimchuk, Bobbi J. Young, Jim Conallen, Kelli A. Houston: Object – Oriented Analysis And Design with Applications, 3th Ed, Addison–Wesley, 2007.

9. Additional References
