

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 Description: **System Analysis and Design**

1- Basic Information:

Course Name	Systems Analysis and Design
Course ID	IS
Contact Hours (Registered Sessions)	16
Contact Hours (Synchronized Sessions)	16
Mid Term Exam	-
Exam	75 min
Registered Sessions Work Load	16
Synchronized Session Work Load	16
Credit Hours	3

2- Pre-Requisites:

Course	ID
Data Bases	DB

3- Course General Objectives:

The course aims at teaching the students the basics of systems analysis and design. The process starts from requirements determination until designing the system. Students acquire a range of techniques and tools for these stages, and study a range of methodologies, from traditional methodologies to object-oriented methodologies, and focusing on the use of UML.

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4- Intended Learning Outcomes (ILO):

Code	Intended Learning Outcomes
ILO1	Definition of the Systems Development Life Cycle (SDLC)
ILO2	Determine the system's business requirements
ILO3	Business Process Modeling
ILO4	Understanding the structure of a complete system consisting of a set of physical components, equipment, software and people and communication between them to achieve the requirements of the system
ILO5	Learn how to choose design strategies
ILO6	Learn how to move from logical flow chart to physical data flow chart
ILO7	Understanding how to analyze and design concept based systems and object-oriented technologies that view the system as a set of self-contained objects that include both data and procedures at the same time
ILO8	

5- Course Syllabus (18 hours of total synchronized sessions; 18 hours of total Recorded Sessions)

- **RS:** Recorded Sessions; **SS:** Synchronized Sessions;

ILO	Course Syllabus	RS	SS	Type	Additional Notes
ILO1	The Systems Development Life Cycle (SDLC): planning, analysis, design, and implementation. As well as methodologies of analysis and design.			<input checked="" type="checkbox"/> Exercises <input type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input type="checkbox"/> Practices <input type="checkbox"/> Others	
ILO2	Requirements Determination: functional and non-functional requirements.			<input checked="" type="checkbox"/> Exercises <input type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input type="checkbox"/> Practices <input type="checkbox"/> Others	
ILO3	Business process modeling: use cases, and			<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments	

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	data flow charts.			<input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input type="checkbox"/> Practices <input type="checkbox"/> Others	
ILO4	Moving into design: physical components, equipment, and software			<input checked="" type="checkbox"/> Exercises <input type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input type="checkbox"/> Practices <input type="checkbox"/> Others	
ILO5	Design strategies: customized design packages, outsource.			<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input type="checkbox"/> Practices <input type="checkbox"/> Others	
ILO6	Moving from logical flow chart to physical data flow chart			<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input type="checkbox"/> Practices <input type="checkbox"/> Others	
ILO7	object-oriented methodology: view the system as a set of self-contained objects that include both data and process at the same time			<input checked="" type="checkbox"/> Exercises <input checked="" 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)

ISC	Interactive Synchronized Collaboration	Ex	Exams	Rpt	Reports
PF2F	Presentations and Face-to-Face Assessments	PW	Practice Work		

ILO Code	ILO	Intended Results	Assessment Type				
			ISC	PW	Ex	PF2F	Rpt

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ILO1	Definition of the Systems Development Life Cycle (SDLC)		✓	<input type="checkbox"/>	✓		✓
ILO2	Determine the system's business requirements		✓	<input type="checkbox"/>	✓		✓
ILO3	Business Process Modeling		✓	<input type="checkbox"/>	✓		✓
ILO4	Understanding the structure of a complete system consisting of a set of physical components, equipment, software and people and communication between them to achieve the requirements of the system		✓	<input type="checkbox"/>	✓		✓
ILO5	Learn how to choose design strategies		✓	<input type="checkbox"/>	✓		✓
ILO6	Learn how to move from logical flow chart to physical data flow chart		✓	<input type="checkbox"/>	✓		✓
ILO7	Understanding how to analyze and design concept based systems and object-oriented technologies that view the system as a set of self-contained objects that include both data and procedures at the same time		✓	<input type="checkbox"/>	✓		✓

7-Practice Tools:

Tool Name	Description
Course Name	

8-Main References

Dennis, Wixom, Roth, Systems Analysis and Design (SAD), 5 th edition, 2009
