



"الريادة والأبداع في الأعمال"  
"Entrepreneurship and  
Innovation in Business"

جامعة الزيتونة الأردنية  
Al-Zaytoonah University of Jordan  
كلية الأعمال  
Faculty of Business



"عراقة وجودة"  
"Tradition and Quality"

**Detailed Course Description - Course Plan Development and Updating Procedures/  
Management Information System Department**

**QF05/0408-3.0E**

Faculty	Business	Department	Management Information System
<b>Course number</b>	0506222	<b>Course title</b>	Systems Analysis & Design 1
Number of credit hours	3	Pre-requisite/co-requisite	Advanced Management Information Systems

This course covers in detail the information systems development process from the management perspective. The MIS application development process (the systems life cycle) will be covered in detail starting from the planning phase to the implementation phase. The course is intended to help students understand the most popular methodology of information systems development (SDLC) and how to use both technological and business skills to IS planning, analysis, design, development and implementation.

	<b>Course goals and learning outcomes</b>
<b>Goal 1</b>	To learn and demonstrate an understanding of systems analysis and design principles and concepts.
Learning outcomes	<b>1.1</b> knowing the contemporary approaches of designing information system
<b>Goal 2</b>	Understand the systems development life cycle techniques (SDLC) and steps used in developing an information system.
Learning outcomes	<b>2.1</b> understanding each phase of the SDLC, as well as the Sub-phases within and Knowing the outcome of each phase.
<b>Goal 3</b>	Understand the alternative sources for applying or developing a new information system.
Learning outcomes	<b>3.1</b> learning methods for collecting user requirements and understanding the Different tools for structuring user requirements using tables, trees diagrams .
<b>Goal 4</b>	Learning the modern and traditional methodologies used to develop a new IS.
Learning outcomes	<b>4.1</b> using VISIO to conduct process modeling and data modeling.
<b>Goal 5</b>	Managing the IS project through studying the alternatives for the system itself, conducting feasibility studies, and being able to create Gantt charts and network diagrams using Microsoft Project.
Learning outcomes	<b>5.1</b> converting ER diagrams into tables. <b>5.2</b> Apply the rules of conversion.
<b>Goal 6</b>	Being able to determine system requirements through eliciting user information and system performance expectations.
Learning outcomes	<b>6.1</b> Converting complex tables into simple –well-structured relations.
<b>Goal 7</b>	Knowing how to structure these requirements and produce the requisite systems documentation at each point of the systems development life cycle.
Learning outcomes	<b>7.1</b> Being able to differentiate between the guidelines of designing forms and the Guidelines of designing reports.
<b>Goal 8</b>	Being able to design user interfaces.
Learning outcomes	<b>8.1</b> Building logical design of user interfaces <b>8.2</b> following the roles of building forms and reports



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<b>Goal 9</b>	Being able to design system's dialogues.
Learning outcomes	<b>9.1</b> learning how to design the process of interaction between the user and the System itself.
<b>Goal 10</b>	Understand the process of system's final installation and implementation.
Learning outcomes	<b>10.1</b> Being able to build test Scenarios. <b>10.2</b> Conduct and run test cases. <b>10.3</b> Learning how to maintain a successful information system.
<b>Textbook</b>	Valacich, George and Hoffer (2012) 'Essentials of Systems Analysis and Design', 5th edition, Pearson publishing.
<b>Supplementary references</b>	--

Course timeline				
Week	Number of hours	Course topics	Pages (textbook)	Notes
<b>01</b>	<b>1</b> <b>1</b> <b>1</b>	The Systems development environment	30	1,2
<b>02</b>	<b>1</b> <b>1</b> <b>1</b>	Sources of software	54	3
<b>03</b>	<b>1</b> <b>1</b> <b>1</b>	Managing the IS project	70	4
<b>04</b>	<b>1</b> <b>1</b> <b>1</b>	Managing the IS project	70	4
<b>05</b>	<b>1</b> <b>1</b> <b>1</b>	Practical session on Microsoft project	----	4
<b>06</b>	<b>1</b> <b>1</b> <b>1</b>	Systems planning and selection	110	3,4
<b>07</b>	<b>1</b> <b>1</b> <b>1</b>	Systems planning and selection	110	3,4
<b>08</b>	<b>1</b> <b>1</b> <b>1</b>	Determining system requirements	150	6
<b>09</b>	<b>1</b> <b>1</b> <b>1</b>	Determining system requirements	150	6
<b>10</b>	<b>1</b> <b>1</b> <b>1</b>	Structuring system requirements	180	7



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	<b>1</b>			
<b>11</b>	<b>1</b>	Process modeling 1	180	7,8
	<b>1</b>			
	<b>1</b>			
<b>12</b>	<b>1</b>	Process modeling 2	180	7,8
	<b>1</b>			
	<b>1</b>			
<b>13</b>	<b>1</b>	Process modeling 3	1-140	7,8
	<b>1</b>			
	<b>1</b>			
<b>14</b>	<b>1</b>	Exercises on process modeling using Data flow diagrams (DFDs) 1	-----	7,8
	<b>1</b>			
	<b>1</b>			
<b>15</b>	<b>1</b>	Exercises on process modeling using Data flow diagrams (DFDs) 1	-----	7,8
	<b>1</b>			
	<b>1</b>			
<b>16</b>	<b>1</b>	Revision	-----	-----
	<b>1</b>			
	<b>1</b>			

<b>Theoretical course evaluation methods and weight</b>	Participation = 10% First exam 20% Second exam 20% Final exam 50%	<b>Practical (clinical) course evaluation methods</b>	Semester students' work = 50% (Reports, research, quizzes, etc.) Final exam = 50%
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<b>Approved by head of department</b>		<b>Date of approval</b>	
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Extra information (to be updated every semester by corresponding faculty member)

<b>Name of teacher</b>	Dr.Enas allozi	Office Number	
Phone number (extension)		Email	<a href="mailto:enas.Al-lozi@zuj.edu.jo">enas.Al-lozi@zuj.edu.jo</a>
Office hours			