



## Course Specification

**Course Name:** [Fundamentals of Information Systems ]

**Course Code:** [IS231]

### I. Basic Course Information

Major or minor element of program: [General]

Department offering the course: [Information Systems Department]

Academic level: [300 Level]

Semester in which course is offered: [First (fall) Semester]

Course pre-requisite(s): [No Prerequisite ]

Credit Hours: 3

Contact Hours Through:

Lecture	Tutorial *	Practical *	Total
2.5	0.0	1.5	4.0

\* 1.5 hours for **either** Tutorial or Practical

Approval date of course specification: September 2014

### II. Overall Aims of Course

[This course provides an introduction to basic Information System concepts. It explains the importance of information systems in business environment which supports firms' business operation, managerial decision and strategic advantage. It focus on defining main components of information system, basic hardware and software concepts, telecommunications, business process, information systems development, application tools and the use of the Internet (i.e. Electronic Commerce). ]

### III. Program ILOs covered by course

Program Intended Learning Outcomes (By Code)			
Knowledge & Understanding	Intellectual Skills	Professional Skills	General Skills
[K1,K7,K9,K11 ]	[I1,I2,I4,I8 ]	[P4,P6,P9 ]	[G2,G3,G6,G9 ]



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#### IV. Intended Learning Outcomes of Course (ILOs)

##### a. Knowledge and Understanding

On completing the course, students should be able to:

- K.1 Describe the development of computer utilization in the workplace.
- K.2 Identify the key components of an Information System.
- K.3 Discuss how effective use of the Internet and Information Systems furthers the goals and objectives of a business organization operating in a global economy.
- K.4 Evaluate the effectiveness of Information Systems with reference to the organizational use of data and databases.

##### b. Intellectual/Cognitive Skills

On completing the course, students should be able to:

- I.1 Analyze and solve study cases.
- I.2 Understand existing system.
- I.3 Identify problem(s) if any.
- I.4 Figure out the outlines of possible system enhancement.
- I.5 Prepare Information System case (analyze case, identify the potentials and impact of IT evolving the existing system).

##### c. Professional and Practical Skills

On completing the course, students should be able to:

- P.1 Map between system needs and system Software requirements.
- P.2 Map between Software requirements and Hardware and Network.
- P.3 Make use of information on the Internet.

##### d. General and Transferable Skill

On completing the course, students should be able to:

- G.1 Enhance team working skills
- G.2 Obtain problem solving skills.
- G.3 Enhance writing skills.
- G.4 Enhance data and information retrieval skills.

#### V. Course Matrix Contents

	Main Topics / Chapters	Duration (Weeks)	Course ILOs Covered by Topic (By ILO Code)			
			K & U	I.S.	P.S.	G.S.
1-	The world of project management	[1 ]	[K1 ]	[ ]	[ ]	[ ]
2-	The managers, the organization and the team	[1 ]	[K1,K2 ]	[I1 ]	[ ]	[ ]
3-	Planning the project	[1 ]	[K2 ]	[I1,I2 ]	[P1,P2 ]	[ ]
4-	Scheduling the project	[1 ]	[ ]	[ ]	[ ]	[ ]
5-	Allocating resources to project	[1 ]	[K3,K4 ]	[I2 ]	[P3 ]	[G1,G4 ]
6-	Monitoring and controlling the Project	1	[ ]	I3	[ ]	G1,G2
7-	Evaluating and Terminating	[1 ]	[K4 ]	[ ]	[All ]	[G3 ]
9-	Components of IS	1	[ ]	I3,I4	[ ]	[ ]
10-	Types of IS	[1 ]	[All ]	[ ]	[All ]	[All ]
11-	Software development lifecycle	[1 ]	[ ]	[All ]	[All ]	[ ]
12-	IS Methodologies	[2 ]	[ ]	[I5 ]	[ ]	[All ]
13-	Comparisons between different IS Methodologies	[1 ]	[K3,K4 ]	[ ]	[All ]	[ ]
	<b>Net Teaching Weeks</b>	<b>13</b>				



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VI. Course Weekly Detailed Topics / hours / ILOs

Week No.	Sub-Topics	Total Hours	Contact Hours	
			Theoretical Hours	Practical Hours *
1	The world of project management	2.5	2.5	
2	The managers, the organization and the team	4	2.5	1.5
3	Planning the project	4	2.5	1.5
4	Scheduling the project	4	2.5	1.5
5	Allocating resources to the project	4	2.5	1.5
6	Monitoring and Controlling the project	4	2.5	1.5
7	<b>Midterm Exam</b>			
8	Evaluating and Terminating	4	2.5	1.5
9	Components of IS	4	2.5	1.5
10	Types of IS	4	2.5	1.5
11	Software development lifecycle	4	2.5	1.5
12	IS Methodologies	4	2.5	1.5
13	Comparisons between different IS Methodologies	4	2.5	1.5
14	Evaluating and Terminating	4	2.5	1.5
15	<b>Final Exam</b>			
<b>Total Teaching Hours</b>		51	33	9

\* No Practical/Tutorial during the first week of the semester

VII. Teaching and Learning Methods

Teaching/Learning Method	Selected Method	Course ILOs Covered by Method (By ILO Code)			
		K & U	Intellectual Skills	Professional Skills	General Skills
Lectures & Seminars	<input checked="" type="checkbox"/>	All	All	All	All
Tutorials	<input type="checkbox"/>				
Computer lab Sessions	<input type="checkbox"/>				
Practical lab Work	<input checked="" type="checkbox"/>	K1,K2	I1,I2	All	All
Reading Materials	<input type="checkbox"/>				
Web-site Searches	<input type="checkbox"/>				
Research & Reporting	<input type="checkbox"/>				
Problem Solving / Problem-based Learning	<input type="checkbox"/>				
Projects	<input type="checkbox"/>				
Independent Work	<input type="checkbox"/>				
Group Work	<input checked="" type="checkbox"/>	K1,K2	I1,I2	All	All
Case Studies	<input checked="" type="checkbox"/>	K1,K2	All		
Presentations	<input checked="" type="checkbox"/>	All		All	
Simulation Analysis	<input type="checkbox"/>				
Others (Specify):	<input type="checkbox"/>				



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VIII. Assessment Methods, Schedule and Grade Distribution

Assessment Method	Selected Method	Course ILOs Covered by Method (By ILO Code)				Assessment Weight / Percentage	Week No.
		K & U	I.S.	P.S.	G.S.		
Midterm Exam	[x]	[All]	[All]	[P1,P2]	[All]	[10%]	[7]
Final Exam	[x]	[All]	[All]	[All]	[All]	[60%]	[15]
Quizzes	[x]	[All]	[All]	[All]	[All]	[10%]	[3-4-9-10]
Course Work	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
Report Writing	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
Case Study Analysis	[x]	[K1,K2]	[All]	[All]	[All]	[5%]	[5]
Oral Presentations	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
Practical	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
Group Project	[x]	[K1,K2]	[All]	[All]	[All]	[15%]	[13]
Individual Project	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
Others (Specify):	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]

IX. List of References

<b>Essential Text Books</b>	<ul style="list-style-type: none"> <li>Title :PROJECT MANAGEMENT IN PRACTICE               <ul style="list-style-type: none"> <li>Authors: Samuel J.Mantel, Scott M.Shafer and Jack R.Meredith</li> <li>Edition:Fourth Edition</li> <li>Publisher:Wiley</li> <li>Year:2010</li> </ul> </li> <li>Title: Information Systems Development - Methodologies, tools, and techniques               <ul style="list-style-type: none"> <li>Authors: David Avison &amp; Guy Fitzgerald</li> <li>Edition: 4th Edition</li> <li>Publisher: McGraw Hill</li> <li>Year: 2006</li> </ul> </li> </ul>
<b>Course notes</b>	<ul style="list-style-type: none"> <li>[None]</li> </ul>
<b>Recommended books</b>	<ul style="list-style-type: none"> <li>[None]</li> </ul>
<b>Periodicals, Web sites, etc ...</b>	<ul style="list-style-type: none"> <li>[None]</li> </ul>

X. Facilities required for teaching and learning

<p>[List the facilities required</p> <ul style="list-style-type: none"> <li>Software: Microsoft Project Management</li> </ul>
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**Course coordinator:** [Dr. Sherine Ghoneim and Dr. Hanan Moussa]

**Head of Department:** [Ass. Prof. Ehab Ezzat]

**Date:** [September 2014]