


QFO-AP-FI-MO02	اسم النموذج: Course Syllabus	 Philadelphia University
رقم الاصدار : 1 ( Revision)	الجهة المصدرة: كلية تكنولوجيا المعلومات	
التاريخ: 2017/11/05	الجهة المدققة: عمادة التطوير والجودة	
عدد صفحات النموذج:		

Course code: 731110	Title: Introduction to Information Systems & Technology
Prerequisite(s): None	Course Level: 1
Credit hours: 3	Lecture Time: STT 10:10-11:00

### Academic Staff Specifics

Name	Rank	Office	Office Hours	Email
Dr. Samir Tartir	Assistant Professor	IT 303		startir@philadelphia.edu.jo

### **Course (module) description:**

This course provides an introduction to information systems and information technology, information systems development concepts, and application software. It identifies the basic types of business information systems, the major steps of the systems development process and some of the strategies employed to lower costs or improve service. It explains how information is used in organizations and how IT enables improvement in quality, timeliness, and competitive advantage. It also defines the competitive advantages, types of roles, functions, and careers available in IS.

### **Course (module) objectives:**

Students should be acquainted with handling and managing data and information in business organizations and to understand the meaning of "Information Systems and technology and their effects on organizations and the different types of business information systems and the development life cycle.

Students must learn about different Computer Hardware and Software and different types of computer networks. Students should know how to deal with e-commerce

### **Course/ module components:**

#### Book:

- Title: Using Information Technology 10<sup>th</sup> Edition. 2013
- Authors: Brian K. Williams & Stacey C. Sawyer
- Publisher: McGraw-Hill/Irwin

#### Support material (s): slides

#### Study guide (s) (if applicable).

#### Homework and laboratory guide (s) if (applicable).

### **Teaching methods:**

DURATION: 16 weeks in the semester, 48 hours in total

LECTURES: 48 hours, 3 per week (including two 1-hour for first and second exams)

**Learning outcomes:**

- Knowledge and understanding
  1. Know and understand a wide range of principles and fundamentals of Information Systems and Information Technology.
  2. The application of IS and IT.

- Cognitive skills (thinking and analysis).

Basic analytical steps of Information Systems and defining the specifications of the IT required in business contexts.

- Communication skills (personal and academic).
  1. Plan and undertake a small individual project in IS and IT fields.
  2. Use the scientific literature effectively and make discriminating use of Web resources.
  3. Present seminars in IS and IT fields.
- Practical and subject specific skills (Transferable Skills).
  1. Use appropriate computer-based tools.
  2. Work effectively with and for others.
  3. Strike the balance between self-reliance and seeking help when necessary in new situations.
  4. Get knowledge about self learning on the long run.

**Assessment instruments:**

- Short reports and/ or presentations, and/ or Short research projects
- Quizzes.
- Home works
- Final examination

<b><u>Allocation of Marks</u></b>	
<b>Assessment Instruments</b>	<b>Mark</b>
First examination	<b>20</b>
Second examination	<b>20</b>
Final examination	<b>40</b>
Quizzes, Home works, small projects and Reports	<b>20</b>
Total	<b>100</b>

**Documentation and academic honesty:**

- Documentation style (with illustrative examples)
- Protection by copyright
- Avoiding plagiarism.

**Course/module academic calendar:**

<b>week</b>	<b>Basic and support material to be covered</b>	<b>page</b>
<b>1+ 2</b>	Topic1: The Information Age In Which You Live (Types of information systems, Competitive advantages, Value-chain analysis)	<b>2</b>
<b>3+ 4</b>	Topic2: Computer Hardware and Software (Input devices, Output devices, Storage devices, Categories of computers, System software, Application software)	<b>280</b>
<b>5+ 6</b>	Topic3: Database and Data Warehouse (The relational database model, database management system tools, data warehouse and data mining)	<b>62</b>
<b>First Exam</b> <b>7+ 8</b>	Topic4: Network Basics (Network components, Network classification, Network communications media, Network security, The client/server software model)	<b>308</b>
<b>9 + 10</b>	Topic5: Electronic Commerce (E-commerce business models, Understand your business & products & services & customers, move money easily and securely )	<b>126</b>
<b>11+ 12</b> <b>Second Exam</b>	Topic6: Management Information and Decision Support Systems (MIS, DSS: definitions, inputs and outputs)	<b>94</b>
<b>13+ 14</b>	Topic7: System Development (System developments life cycle, Component-based development, End-user development, prototyping)	<b>158</b>
<b>15+ 16</b> <b>Final Exam</b>	Topic8: Protecting People and Information (Ethics, Privacy, Security)	<b>222</b>

**Expected workload:**

On average students need to spend an hour of study and preparation for each 50-minutes lecture.

**Attendance policy:**

Absence from lectures and/or tutorials shall not exceed 15%. Students who exceed the 15% limit without a medical or emergency excuse acceptable to and approved by the Dean of the relevant college/faculty shall not be allowed to take the final examination and shall receive a mark of zero for the course. If the excuse is approved by the Dean, the student shall be considered to have withdrawn from the course.

## **Module references:**

### **Books**

1. Gerald M. Weinberg, an Introduction to General System Thinking, Silver Anniversary Edition, 2001.
2. Leonard M. Jessup and Josef S. Valacich, Information Systems Foundations, 1999, Que E&T.
3. James A. O'Brien, Introduction to Information Systems: Essentials for the e-Business Enterprise. 11<sup>th</sup> ed. 2003, McGraw-Hill Higher Education.
4. Steven Alter, Information Systems a management perspective, 2<sup>nd</sup> ed. 1996, The Benjamin/Cummings Publishing Company, Inc.
5. Senn, James A, Analysis and design of information systems, 1989, New York: McGraw-Hill.
6. Fundamentals of Information Systems, Editors: Ralph M. Stair, George W. Reynolds, Course Technology; Published: 2001, Thomson Learning, Inc.
7. Thomas L. Floyed Digital Fundamentals, Pearson Education 2000.
8. Thomas C. Bartee, Computer Architecture and Logic Design, McGraw Hill 1991.

### **JOURNALS**

1. Peter Sappal, "E-Commerce Recruitment" the wall street journal, January 25,1999,p52.
2. David penn, "Ericsson Screen Phone Runs Linux," Linux journal, February 29,2000.

### **WEBSITES**

1. [www.macnn.com](http://www.macnn.com)
2. [www.applix.com](http://www.applix.com)
3. [www.computerworld.com](http://www.computerworld.com)
4. [www.allina.com](http://www.allina.com)