Arab Academy for Science and Technology and Maritime Transport
Computer Science Curriculum
Course Syllabus

Course Code: IS171	**Course Title:** Introduction to Information Systems	**Classification:** R	**Coordinator's Name:** Prof. Dr. Abeer Bader	**Credit:** 3
Pre-requisites: None	**Co-requisites:** None	**Schedule:** Lecture 2 hrs. Tutorial/Lab 2 hrs.		

Course Description:
This course provides an introduction to information systems. Topics of interest include definitions of "information systems", functions of information system, major business functions, types of information systems, the role of information in management problem solving, the role of Information Systems in firms competitive advantages, internet business models and E-commerce, it also deals with the factors influence the adoption of inter organizational systems, the benefits and disadvantages of the virtual office and the virtual organization, the benefits and risks of end-user computing, database management systems.

Textbook:
James O'Brien, *Introduction to Information Systems*, McGraw Hill.

References:
Ralph Stair, *Principles of Information Systems*, Course Technology.

Course Objective/Course Learning Outcome:	**Contribution to Program Student Outcomes:**
1. Identify and explain the different types of Information Systems. 2. Explain the value of information systems in modern business management and operations. 3. Identify and describe different types of SDLC methodologies. 4. Define the term organization and	(SO1) Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

identify its components. 5. Define data management concepts and terms. 6. Analyze and design a solution for a "real-world" Computer Business Information System.	
7. State the difference between the logical and physical design of a system. 8.	(SO2) Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
9. Discuss the ethical issues involved in developing and interacting with Information Systems.	(SO3) Communicate effectively in a variety of professional contexts. (SO4) Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
Course Outline: 1. Course Description and Introduction 2. Foundations of Information Systems in Business 3. Computer Hardware 4. Computer Software 5. Data Resource Management	6. Telecommunication and Networks 7. e-Business Systems 8. e-Commerce Systems 9. Decision Support Systems