

**Arab Academy for Science and Technology and Maritime Transport  
Information Systems Curriculum  
Course Syllabus**

<b>Course Code:</b> IS372	<b>Course Title:</b> Information Systems Theory & Practice	<b>Classification:</b> R	<b>Coordinator:</b> Dr. Saleh Mesbah <b>Lecturer:</b> Dr. Ahmed Sedky	<b>Credit Hours:</b> 3
<b>Pre-requisites:</b> IS171 (Introduction to information system)	<b>Co-requisites:</b> None	<b>Schedule:</b> Lecture: 2 hours Tutorial-Lab: 2 hours		
<b>Office Hours: (Room 405) Wednesday 12:30 p.m. -2:00 p.m.</b>				
<b>Course Description:</b> Dealing with the Information Systems as it is being practiced in organizations today, the emphasis of this course is on the current issues that information systems executives find important; its organization is around a framework that students can understand. The course includes the rising societal risks of IT, digital convergence, messaging, and instant messaging, wireless technology, outsourcing and information security. The course merges theory with practice through real-world case examples.				
<b>Textbook:</b>  K. Pearlson & C. Saunders, <i>Strategic Management of Information Systems</i> , Wiley & Sons Ltd.				

**References:**

- Ellen F. Monk and Bret J. Wagner, *Concepts in Enterprise Resource Planning*, Course Technology.
- McNurlin, B. and Sprague, R., *Information Systems Management in Practice*, Prentice Hall.

**Course Objective/Course Learning Outcome:**

**Contribution to Program Student Outcomes:**

1-Understand the main concepts of using and managing information systems.

**(SO-3) Communicate effectively in a variety of professional contexts.**

2-Understand the relationship between business strategies and IS strategy.  
3-Describe the key components of an IS strategy.

4-Explain how IS/IT provides a competitive advantage to organizations.  
5-Describe the five competitive forces model and the value chain model.

**(SO-4) Recognize professional responsibilities and make informed judgments in computing  
Practice based on legal and ethical principles.**

6-Understand how IT supports communications and collaboration.  
7-Describe how IS supports and automates business processes  
8-Discuss IT architecture and infrastructure issues and designs.  
9-Explain IT governance and define the ways decisions are made in an organization.  
10-Understand IS planning and development.

**(SO-6) Support the delivery, use, and management of information systems within an Information systems environment.**

**Course Outline:**

**Week 1.** Linking Systems to Strategy and the Organization

**Week 2.** Strategic use of information resources in Global Economy

**Week 3.** Organizational Strategy: Managerial Levers

**Week 4.** Work Design: Enabling Global Collaboration

**Week 5.** Building and Changing Global Business Processes

**Week 6.** Information Systems Strategy: Architecture and Infrastructure

**Week 7.** 7th Week Exam

**Week 8.** Cost recovery of Information Systems

**Week 9.** Governance of the Information Systems Organization

**Week 10** Governance of the Information Systems Organization (cont)

**Week 11.** Sourcing Information Systems around the World

**Week 12.** 12th Week Exam

**Week 13.** Sourcing Information Systems around the World (cont)

**Week 14.** Case study

**Week 15.** Revision

**Week 16.** Final Exam

**Grade Distribution:**

**7th Week Assessment (30%):**

Exam (20%) + Homework Assignments 5% + Section Assignments 5%

**12th Week Assessment (20%):**

Section exams (20%)

**Year Work (10%):**

Exam (5%) + Attendance (5%)

**Final Exam (40%)**

**Policies:**

**Attendance:**

AASTMT Education and Study Regulations (available at [aast.edu](http://aast.edu))

**Academic Honesty:**

AASTMT Education and Study Regulations (available at [aast.edu](http://aast.edu))

**Late Submission:**

*Late submissions are graded out of 75% (1 week late), 50% (2 weeks late), 25% (3 weeks late), 0% (more than 3 weeks late)*