



**University/Academy:** Arab Academy for Science and Technology & Maritime Transport  
**Faculty/Institute:** College of Computing and Information Technology  
**Program:** Information Systems

**Form No. (12)**  
**Course Specification**

**1- Course Data**

<b>Course Code:</b> IS471	<b>Course Title:</b> Strategic Planning For Information Systems	<b>Academic Year/Level:</b> Year 4 / Semester 7
<b>Specialization:</b> Information Systems	<b>No. of Instructional Units:</b> 2 hrs lecture 2 hrs lab	<b>Lecture:</b>

<b>2- Course Aim</b>	This course examines the role of information systems in assisting achievement of corporate objectives, and to consider methods for strategic and tactical planning of information systems. The course will identify central IS issues and problems, assess information technology systems as competitive tools; use methods for IS strategic analysis.
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**3- Intended Learning Outcome:**

<b>a- Knowledge and Understanding</b>	<p><b>Students will be able to demonstrate knowledge of:</b></p> <p><b>K13.</b> Information systems, data and information management, enterprise architecture, IS project management, IT infrastructure, systems analysis and design, and IS strategies.</p> <p><b>K15.</b> The broad context within which computer information science including issues such as quality, reliability, enterprise, employment law, accounting and health</p> <p><b>K19.</b> Modeling organizational processes and data, defining and implementing technical and process solutions, managing projects, and integrating systems.</p> <ul style="list-style-type: none"><li>• Define information system and information technology and the difference between them.</li><li>• Identify the application portfolio models.</li><li>• Clarify The Relationship b/w Business, IS and IT Strategies.</li><li>• Describe the Evolution of strategic planning in organizations.</li><li>• Explain the business planning process.</li><li>• Identify business planning tools &amp; techniques.</li><li>• Describe the evolution of IS/IT strategy process.</li><li>• List approaches to IS/IT strategy development.</li><li>• Explain Establishing an IS/IT process.</li><li>• Explain IS Strategy contents</li><li>• Define Business re-engineering and IS strategy.</li><li>• Identify IS/IT needs of the business strategy.</li><li>• Explain IS/IT supply.</li></ul>
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	<ul style="list-style-type: none"> <li>• Identify Criteria for effective planning.</li> <li>• Describe objectives in determining the IS/IT strategy.</li> <li>• List strategic planning techniques &amp; their relationships.</li> <li>• Identify key business issues in IS/IT planning .</li> <li>• Describe how to manage the application portfolio.</li> <li>• Define organizing strategies for IS/IT management.</li> <li>• Describe evaluating IS/IT investments.</li> <li>• Explain the benefits management process</li> <li>• Recognize the information culture.</li> <li>• Describe implementing business-wide information management.</li> <li>• Describe the practice of managing the information asset.</li> <li>• List policies and implementation issues.</li> <li>• Describe IT service strategies.</li> <li>• Identify types of IT service.</li> <li>• Describe application development and provisioning strategies.</li> <li>• Clarify aligning the development approach to the applications portfolio.</li> <li>• Explain strategies for managing the IT infrastructure.</li> <li>• Describe technology strategies in a multi-business unit organization</li> <li>• List outsourcing strategies</li> </ul> <p>Define guidelines for outsourcing decisions.</p>
<b>b- Intellectual Skills</b>	<p><b><u>By the end of the course, the student acquires high skills and an ability to understand:</u></b></p> <p><b>I14.</b> Select the suitable tools, methods and techniques for modeling, analyzing IS, establishing criteria, and verify solutions.</p> <p><b>I15.</b> Identify a range of solutions and critically evaluate and justify proposed design solutions.</p> <ul style="list-style-type: none"> <li>• Analyze the Strategic framework.</li> <li>• Identify barriers to IT/IS effectiveness.</li> <li>• Analyze IS/IT strategy framework.</li> <li>• Interpret main factors influencing balance of portfolio.</li> <li>• Identify how IS/IT could impact the strategy.</li> <li>• Compare Applications in the Portfolio.</li> <li>• Plan and Set priorities for applications.</li> <li>• Asses the investment risks.</li> <li>• Identify Information as an asset.</li> <li>• Investigate linking the IT infrastructure with the business strategy.</li> <li>• Interpret Justification of infrastructure investments.</li> </ul>
<b>c- Professional Skills</b>	<p><b><u>By the end of the course the student will have the ability to:</u></b></p> <p><b>P12.</b> Plan and manage an information systems project from inception to final implementation and cut-over</p> <p><b>P13.</b> Produce acceptable technical reports and user system documentation.</p> <p><b>P15.</b> Apply the principles of effective information acquisition, information management, organization, and information-retrieval to text, images, sound, and video.</p> <p><b>P19.</b> Maintain existing information systems.</p> <ul style="list-style-type: none"> <li>• Apply Business strategic and IS/IT strategic analysis methods.</li> <li>• Apply Models and framework for guiding management action.</li> </ul>
<b>d- General Skills</b>	<p><b>Students will be able to:</b></p> <p><b>G1.</b> Demonstrate the ability to make use of a range of learning resources and to manage one's own learning.</p> <p><b>G7.</b> Show the use of general computing facilities.</p>

<b>4- Course Content</b>	<ul style="list-style-type: none"> <li>• <b>The Evolving Role of IS/IT in Organizations : A Strategic Perspective</b></li> <li>• <b>An overview of business strategy concepts &amp; the is/it strategy implications</b></li> <li>• <b>Developing an IS/IT Strategy: Establishing Effective Processes</b></li> <li>• <b>IS/IT Strategic Analysis: Assessing and Understanding the Current Situation</b></li> <li>• <b>IS/IT Strategic Analysis: Determining the Future Potential</b></li> <li>• <b>Determining the Business Information Systems Strategy</b></li> <li>• <b>Managing the Application Portfolio</b></li> <li>• <b>Strategic Management of IS/IT: Organizing and Resourcing</b></li> <li>• <b>Managing Investments in Information Systems and Technology</b></li> <li>• <b>Strategies for Information Management: Towards Knowledge Management</b></li> <li>• <b>Managing the Supply of IT Services, Applications and Infrastructure</b></li> </ul>
<b>5- Teaching and Learning Methods</b>	Lectures, Labs, Projects, Individual study & self-learning.
<b>6- Teaching and Learning Methods for Students with Special Needs</b>	<ul style="list-style-type: none"> <li>• Students with special needs are requested to contact the college representative for special needs ( currently Dr Hoda Mamdouh in room C504)</li> <li>• Consulting with lecturer during office hours.</li> <li>• Consulting with teaching assistant during office hours.</li> <li>• Private Sessions for redelivering the lecture contents.</li> </ul> For handicapped accessibility, please refer to program specification
<b>7- Student Assessment:</b>	
<b>a- Procedures used:</b>	Exams and Individual Projects
<b>b- Schedule:</b>	Week 7 exam Projects through the semester Week 16Final exam
<b>c- Weighing of Assessment:</b>	7 <sup>th</sup> week exam 30% Project 20% Lab work 10% Final exam 40%
<b>8- List of References:</b>	
<b>a- Course Notes</b>	From the Moodle on <a href="http://www.aast.edu">www.aast.edu</a>

<b>b- Required Books (Textbooks)</b>	Strategic Planning for Information Systems, Ward, J. and Peppard, J., John Wiley, 3 <sup>rd</sup> Ed 2002.
<b>c- Recommended Books</b>	1- Hedberg, B., <i>Virtual Organizations and Beyond: Discover Imaginary Systems</i> , John Wiley, 1997.
<b>d- Periodicals, Web Sites, ..., etc.</b>	

**Course Instructor:**

**Head of Department:**

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