

DEREE COLLEGE SYLLABUS FOR: CS 4562 INFORMATION SYSTEMS STRATEGY

(Updated Fall 2021)

UK LEVEL: 6
UK CREDITS: 15
US CREDITS: 3/0/3

PREREQUISITES:

CS 1070 Introduction to Information Systems
 CS 2179 Business Information Systems
 CS 3245 Data Management for Business
 CS 4384 Analysis and Design for Information Systems
 MG 4057 Project Management

CATALOG DESCRIPTION:

Study of the alignment of information systems with business models; a senior management perspective in the acquisition, development, delivery and governance of information systems resources.

RATIONALE:

This module provides students with the opportunity to apply information systems concepts in support of the strategic use of information systems as a means for acquiring competitive advantage. Students will be exposed to factors that affect information systems in business from both technological and managerial perspectives. They will also recognize how information systems create opportunities for change in an organization. The module is project-driven and students will be required to apply project management practices.

LEARNING OUTCOMES:

As a result of taking this course, the student should be able to:

1. Analyse the strategic impact of information systems on organizations
2. Combine information systems strategies with business models, enabling organizations to conduct business in innovative and effective ways
3. Assess challenges executives face in aligning business strategy with information systems strategy.

METHOD OF TEACHING AND LEARNING:

In congruence with the teaching and learning strategy of the college, the following tools are used:

- Lectures, class discussions of recent information systems' developments and best practices.
- Laboratory sessions on game simulations involving decision making on certain business processes.
- Office hours held by the instructor to provide further assistance to students.
- Use of the Blackboard Learning platform to further support communication, by posting lecture notes, assignment instruction, timely announcements, and online submission of assignments.

ASSESSMENT:

Summative:		
First Assessment - Midterm Examination (in class, 1 hour)	30%	Answers to essay questions
Final Assessment - Project	70%	Information systems proposal (2,500-2,700 words)

	<p>Formative:</p> <table border="1" data-bbox="495 168 1380 241"> <tr> <td data-bbox="495 168 1169 241">Team coursework: case problem analyses and presentation</td> <td data-bbox="1169 168 1380 241">0%</td> </tr> </table> <p>The formative assessment(s) aims to prepare students for the summative ones.</p> <p>The First Assessment tests Learning Outcome 1, 2. The Final Assessment tests Learning Outcomes 1, 2 and 3.</p> <p>The final grade for this module will be determined by averaging all summative assessment grades, based on the predetermined weights for each assessment. If students pass the comprehensive assessment that tests all Learning Outcomes for this module and the average grade for the module is 40 or higher, students are not required to resit any failed assessments.</p> <p>(Guidelines and assessment rubrics are distributed on the first day of classes along with the course outline).</p>	Team coursework: case problem analyses and presentation	0%
Team coursework: case problem analyses and presentation	0%		
<p>INDICATIVE READING:</p>	<p>REQUIRED READING:</p> <p>Lynda M. Applegate, Robert D. Austin, Deborah L. Soule. Corporate Information Strategy and Management, Text and Cases, McGraw Hill, Eighth edition, 2009, ISBN: 9780071263191.</p> <p>RECOMMENDED READING:</p> <p>Strategic Information Management: Challenges and Strategies in Managing Information Systems, by Robert D. Galliers (Editor), Dorothy E. Leidner (Editor).</p> <p>Khosrow-Pour, D.B.A., M. (2006). Cases on Strategic Information Systems (pp. 1-379). Hershey, PA: IGI Global. doi:10.4018/978-1-59904-414-9.</p> <p>Ward, John & Peppard, Joe. (2002). Strategic Planning for Information Systems (3rd Edition).</p> <p>Stephen Duhan, A capabilities based toolkit for strategic information systems planning in SMEs, International Journal of Information Management, Volume 27, Issue 5, 2007, Pages 352-367, ISSN 0268-4012, https://doi.org/10.1016/j.ijinfomgt.2007.03.001.</p> <p>H. S. Beiryaei and M. Jamporzmay, "Propose a Framework for knowledge management strategic planning (KMSSP)," 2010 International Conference on Electronics and Information Engineering, Kyoto, 2010, pp. V2-469-V2-473. doi: 10.1109/ICEIE.2010.5559819.</p> <p>Mohdzaher B. Mohdzain, John M. Ward, A study of subsidiaries' views of information systems strategic planning in multinational organisations, The Journal of Strategic Information Systems, Volume 16, Issue 4, 2007, Pages 324-352, ISSN 0963-8687, https://doi.org/10.1016/j.jsis.2007.02.003.</p> <p>James A. O'Brien, George M. Marakas; Management Information Systems, McGraw Hill, latest edition.</p> <p>Exploiting the Virtual Value Chain by Jeffrey F. Rayport and John Sviokla,</p>		

	<p>HBR November–December 1995 issue.</p> <p>Goleman, Daniel. “What Makes a Leader?” Harvard Business Review 76, no. 6 (November-December 1998), pp. 92-102.</p> <p>Mintzberg, H. and J. B. Quinn. The Strategy Process. Prentice-Hall, 1996, ISBN 0-13-45585-8.</p> <p>Porter, Michael E. “From Competitive Advantage to Corporate Strategy.” Harvard Business Review 65, no. 3 (May-June 1987), pp. 43-59.</p> <p>Porter, Michael E. “What is Strategy?” Harvard Business Review 74, no. 6 (November-December 1996). pp. 61-78.</p>
<p>INDICATIVE MATERIAL: (e.g. audiovisual, digital material, etc.)</p>	<p>REQUIRED MATERIAL: N/A</p> <p>RECOMMENDED MATERIAL: N/A</p>
<p>COMMUNICATION REQUIREMENTS:</p>	<p>Use of appropriate academic conventions as applicable in oral and written communications.</p>
<p>SOFTWARE REQUIREMENTS:</p>	<ul style="list-style-type: none"> • MS-Office 365 applications • MS-Project latest version
<p>WWW RESOURCES:</p>	<p>https://www.microsoft.com/en-us/education/training-and-events/education-competencies/strategic_agility_and_innovation_management.aspx</p> <p>www.opengroup.org/architecture/togaf8-doc/arch/</p> <p>www.cioinsight.com</p> <p>www.cio.com</p> <p>www.infoworld.com</p> <p>www.itbusinessedge.com</p> <p>www.strategy-business.com</p> <p>www.digitalenterprise.org</p>
<p>INDICATIVE CONTENT:</p>	<ul style="list-style-type: none"> • Information Systems Strategy <ul style="list-style-type: none"> ○ Business Models ○ Competitive Strategy and Organization Mission ○ The mission of businesses and other organizations, and the relationship between an organization's mission and its strategy ○ IT and the Digital Organization. ○ Competitive and operational perspectives on IT • Information Systems Management <ul style="list-style-type: none"> ○ IT Management and Governance ○ Organizational perspectives on project planning and implementation. ○ Security, Availability, Privacy and Compliance ○ Future of IT ○ Technology Adoption and Innovation