

DEREE COLLEGE SYLLABUS FOR: CS 4462 INFORMATION SYSTEMS STRATEGY

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

(Fall 2013)

PREREQUISITES:

CS 1070 Introduction to Information Systems
 CS 2179 Business Information Systems
 MG/CS 3157 Project Management
 CS 4284 Analysis and Design for Information Systems

CATALOG DESCRIPTION:

Study of the information systems function within an organization; a senior management perspective in the acquisition, development, delivery and governance of information systems resources.

RATIONALE:

The capstone module in MIS 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 team-oriented. 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 impact of information systems on organizations
2. Relate business models with information systems strategies, 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:

Midterm Examination: essay questions	20
Individual Research Project: identification of the research question(s), literature review addressing the research question(s), conclusions, and referencing	80

Formative:

Team Coursework: case problem analyses and/or game simulation	0
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The coursework aims to prepare students for the research project. The individual research project tests Learning Outcomes 1-3. Midterm Exam tests Learning Outcome 1. (Guidelines and assessment rubrics are distributed on the first day of classes along with the course outline.)

READING LIST:	REQUIRED MATERIAL: <ul style="list-style-type: none"> Lynda M. Applegate, Robert D. Austin, Deborah L. Soule. Corporate Information Strategy and Management, Text and Cases, McGraw Hill, Eighth edition, 2009, ISBN: 9780071263191.
RECOMMENDED MATERIAL:	<ul style="list-style-type: none"> James A. O'Brien, George M. Marakas; Management Information Systems, McGraw Hill, latest edition. R. Chen, K.L. Kraemer, and P. Sharma, Google: The World's First Information Utility?. In Proceedings of Business & Information Systems Engineering. 2009, 53-61 Weill, Peter and Ross, Jeanne W., IT Governance on One Page (November 2004). MIT Sloan Working Paper No. 4517-04; CIS Research Working Paper No. 349
COMMUNICATION REQUIREMENTS:	Use of Blackboard CMS. Use of word processing and/or presentation graphics software.
SOFTWARE REQUIREMENTS:	MS-Office, latest version MS-Project, latest version
WWW RESOURCES:	<ul style="list-style-type: none"> Free Management Library www.managementhelp.org/plan_dec/str_plan/models.htm Effective Strategic Planning www.practitionerresources.org/cache/documents/36796.pdf The Open Group Architecture Framework www.opengroup.org/architecture/togaf8-doc/arch/ Business Intelligence Review - www.bireview.com CIO Insight - www.cioinsight.com CIO Magazine - www.cio.com Info World - www.infoworld.com IT Business Edge - www.itbusinessedge.com Strategy and Business - www.strategy-business.com Managing the Digital Enterprise - www.digitalenterprise.org
INDICATIVE CONTENT:	<ul style="list-style-type: none"> Information Systems Strategy <ul style="list-style-type: none"> Business Models, Competitive Strategy and Organization Mission: How businesses are modelled, and how they compete. The mission of businesses and other organizations, and the relationship between an organization's mission and its strategy. IT and the Digital Organization: The functionality of the digital organization, and the role that IT plays in supporting it. Competitive and operational perspectives on IT, including analysis of both benefits and risk. Information Systems Management <ul style="list-style-type: none"> IT Management and Governance: How decisions are made about adoption, investment, implementation, and deployment of information technology within organizations. Organizational perspectives on project planning and implementation. Security, Availability, Privacy and Compliance: How organizations ensure their systems are reliable and available, deal with privacy and security concerns, and ensure compliance with government regulations Future of IT: Outsourcing, the growth of utility computing, and how changes in IT will affect both organizations and individuals. Technology Adoption and Innovation: How to determine whether, when and how an organization should adopt new technology and how IT organizations can be forces for innovation