

<b>DEREE COLLEGE SYLLABUS FOR: CS 3051 BUSINESS DRIVEN TECHNOLOGY</b>	
<b>UK LEVEL: 5</b> <b>UK CREDITS: 15</b> <b>US CREDITS: 3/1/3</b>	
(Updated Spring 2021)	
<b>PREREQUISITES:</b>	None
<b>CATALOGUE DESCRIPTION:</b>	Theories and practices on the role and use of information systems and technology in transforming organizations through streamlining business operations and optimizing business processes. Effective decision-making in implementing sustainable business/IS solutions.
<b>RATIONALE:</b>	The module is intended to provide students with the required theoretical and practical knowledge of the role and use of Information Systems in any type of business environment. Emphasis is given to the application of business software for the transformation and streamlining of business processes into effective business operations, and in bringing innovation through technology.
<b>LEARNING OUTCOMES:</b>	As a result of taking this course, the student should be able to: <ol style="list-style-type: none"> <li>1. Analyse the role of technology and IS in business operations.</li> <li>2. Apply relevant practices and theories of information systems in implementing successful business solutions.</li> </ol>
<b>METHOD OF TEACHING AND LEARNING:</b>	In congruence with the teaching and learning strategy of the college, the following tools are used: <ul style="list-style-type: none"> <li>• Lectures and class discussions. Laboratory sessions include practice in the design and development of databases, and usage of GIS and enterprise software.</li> <li>• Office hours held by the instructor to provide further assistance to students.</li> <li>• Use of the Blackboard Learning platform (communication, posting of lecture notes / assignments' instructions / timely announcements, online submission of assignments, etc.).</li> </ul>

<b>ASSESSMENT:</b>	<b>Summative:</b>	
	First Assessment - Midterm Examination (in class, 1 hour)	40% Combination of answers to essay questions and case problems
	Final Assessment - Research Project	60% Analysis of an IS business solution (2,200-2,400 words)
	<b>Formative:</b>	
	Case problems and group presentation of the analysis	0%

	<table border="1" data-bbox="573 184 1318 220"> <tr> <td data-bbox="573 184 1141 220">Computer lab assignments</td> <td data-bbox="1141 184 1318 220">0%</td> </tr> </table> <p>The formative assessment(s) aim to prepare students for the summative ones.</p> <p>The First Assessment tests Learning Outcome 1. The Final Assessment tests Learning Outcomes 1 and 2.</p> <p>The Final Assessment tests all learning outcomes of this module, therefore students pass the module if the average module grade is 40% or higher.</p> <p>(Guidelines and assessment rubrics are distributed on the first day of classes along with the course outline)</p>	Computer lab assignments	0%
Computer lab assignments	0%		
<b>REQUIRED MATERIAL:</b>	Business Driven Technology, latest edition, by P. Baltzan, McGraw-Hill (ebook).		
<b>RECOMMENDED MATERIAL:</b>	<ul style="list-style-type: none"> <li>• Shipping and Logistics Management Hardcover, latest edition, by Yuen Ha (Venus) Lun (Author), Kee Hung Lai (Author), Tai Chiu Edwin Cheng (Author), Springer - London</li> <li>• Cruise Management: Information and Decision Support Systems, by Alexis Papathanassis (Editor), Michael H. Breitner (Editor), Cornelia Schoen (Editor), latest edition, Gabler</li> <li>• Logistic Core Operations with SAP: Inventory Management, Warehousing, Transportation, and Compliance, by Kappauf (Author), Bernd Lauterbach (Author), Matthias Koch (Author), latest edition, Springer</li> <li>• Laudon K., Laudon J. (2017) Management Information Systems: Managing the Digital Firm. Essex, Pearson,</li> <li>• R. Kelly Rainer, Brad Prince, Hugh J. Watson (2019) Management Information Systems: Moving Business Forward, Wiley</li> </ul>		
<b>COMMUNICATION REQUIREMENTS:</b>	Use of appropriate academic conventions as applicable in oral and written communications.		
<b>SOFTWARE REQUIREMENTS:</b>	<ul style="list-style-type: none"> <li>• MS-Office 365 applications</li> <li>• A database management system and data analysis software</li> <li>• An enterprise software simulation system such as ERP</li> <li>• A Geographical Information System software application</li> </ul>		
<b>WWW RESOURCES:</b>	<a href="http://www.openSAP.com">www.openSAP.com</a> <a href="http://www.geocomm.com">www.geocomm.com</a> <a href="http://www.imo.org">www.imo.org</a> <a href="http://www.mits-forum.org">www.mits-forum.org</a> <a href="http://www.unescap.org/our-work/ict-disaster-risk-reduction">www.unescap.org/our-work/ict-disaster-risk-reduction</a> <a href="http://www.discwise.eu/about/interoperability-and-standards/one-common-framework-for-transport-and-logistics-information-systems/">www.discwise.eu/about/interoperability-and-standards/one-common-framework-for-transport-and-logistics-information-systems/</a> <a href="http://tfig.unece.org/contents/logistics-information-process.htm">http://tfig.unece.org/contents/logistics-information-process.htm</a> <a href="http://www.cio.com">www.cio.com</a> <a href="https://eduglopedia.org/">https://eduglopedia.org/</a> <a href="https://www.itbusinessedge.com/">https://www.itbusinessedge.com/</a> <a href="https://www.cnet.com/">https://www.cnet.com/</a>		

<b>INDICATIVE CONTENT:</b>	<ol style="list-style-type: none"><li>1. Achieving Business Success<ol style="list-style-type: none"><li>1.1. Business Driven Technology</li></ol></li><li>2. Business Intelligence<ol style="list-style-type: none"><li>2.1. Databases, Data Warehouses, Data Mining</li></ol></li><li>3. Streamlining Business Operations<ol style="list-style-type: none"><li>3.1. ERP, CRM, SCM</li></ol></li><li>4. Building Innovation through IS<ol style="list-style-type: none"><li>4.1. E-Commerce, E-Business</li></ol></li><li>5. Transforming Organizations<ol style="list-style-type: none"><li>5.1. Business Agility</li></ol></li></ol>
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