

**DEREE COLLEGE SYLLABUS FOR: CS 3246 ENTERPRISE SYSTEMS**

(Updated Fall 2021)

**UK LEVEL: 5**  
**UK CREDITS: 15**  
**US CREDITS: 3/0/3**

<b>PREREQUISITES:</b>	CS 1070 Introduction to Information Systems <b>or</b> ITC 1070 Information Technology Fundamentals  CS 2179 Business Information Systems <b>or</b> CS 3051 Business Driven Technology
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<b>CATALOG DESCRIPTION:</b>	Study of enterprise systems; integration of enterprise systems in support to business processes; theoretical and practical aspects of enterprise solutions; practical training on Enterprise Resource Planning industry standard solutions.
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<b>RATIONALE:</b>	The module will help students understand the respective role of users, business analysts, and managers in the analysis, selection, and implementation of enterprise systems. It provides students with knowledge and understanding of the enterprise systems principles. Enables students to investigate the role of enterprise systems in an organization and provides them with the skills to use enterprise systems.
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<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 enterprise systems within an organization and of the various challenges and impacts related to their implementation.</li> <li>2. Apply Enterprise Resource Planning systems to facilitate the management of business processes.</li> </ol>
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<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, class discussions on case studies, flipped classroom, simulation and best teaching and learning practices.</li> <li>➤ Laboratory hands-on sessions on Enterprise Resource Planning software (ERP).</li> <li>➤ Office hours held by the instructor to provide further assistance to students.</li> <li>➤ Use of the Blackboard Learning platform to further support communication, by posting lecture notes, assignment instruction, timely announcements, and online submission of assignments.</li> </ul>
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<b>ASSESSMENT:</b>	<b>Summative:</b>		
	First Assessment - Midterm Examination	<b>40%</b>	Answers to essay questions
	Final Assessment - Research Project	<b>60%</b>	Literature review / use of ERP system (2,000-2,200 words)
	<b>Formative:</b>		
	Group assignments		<b>0%</b>
<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 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</p>			

	<p>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>
<p><b>INDICATIVE READING:</b></p>	<p><b>REQUIRED READING:</b></p> <p>Luvai Motiwalla, Jeffrey Thompson. Enterprise Systems for Management, Prentice Hall, Second edition, 2011, ISBN: 978-0132145763.</p> <p><b>RECOMMENDED READING:</b></p> <p>Azevedo, P. S., Azevedo, C., &amp; Romão, M. (2014). Application Integration: Enterprise Resource Planning (ERP) Systems in the Hospitality Industry. A case study in Portugal. <i>Procedia Technology</i>, 16, 52–58. <a href="http://doi.org/10.1016/j.protcy.2014.10.067">http://doi.org/10.1016/j.protcy.2014.10.067</a>.</p> <p>Lee, C. K. M., Zhang, L., Lee, P. X., &amp; Au, K. O. (2009). Using ERP systems to transform business processes: A case study at a precession engineering company. <i>International Journal of Engineering Business Management</i>, 1(1), 19–24. <a href="http://doi.org/10.5772/6784">http://doi.org/10.5772/6784</a></p> <p>Simha R. Magal, Jeffrey Word. <i>Integrated Business Processes with ERP Systems</i>, Wiley, 2012, ISBN: 978-04704784-8.</p> <p>Ellen Monk, Bret Wagner. <i>Concepts in Enterprise Resource Planning</i>, Course Technology, Fourth edition, 2012, ISBN: 978-1111820398.</p> <p>Peiris, K. D. A., Jung, J., &amp; Gallupe, R. B. (2015). Building and evaluating ESET: A tool for assessing the support given by an enterprise system to supply chain management. <i>Decision Support Systems</i>, 77, 41–54. <a href="https://doi.org/10.1016/j.dss.2015.05.004">https://doi.org/10.1016/j.dss.2015.05.004</a></p> <p>Samwel Matendea, Patrick Ogao. (2013). Enterprise Resource Planning (ERP) System Implementation: A case for User participation. <i>Procedia Technology</i>, Volume 9, 518-526. <a href="https://doi.org/10.1016/j.protcy.2013.12.058">https://doi.org/10.1016/j.protcy.2013.12.058</a> Course Packet –ERP Exercises and Case Studies (online)</p>
<p><b>INDICATIVE MATERIAL:</b> (e.g. audiovisual, digital material, etc.)</p>	<p><b>REQUIRED MATERIAL:</b> N/A</p> <p><b>RECOMMENDED MATERIAL:</b> N/A</p>
<p><b>COMMUNICATION REQUIREMENTS:</b></p>	<p>Use of appropriate academic conventions as applicable in oral and written communications.</p>
<p><b>SOFTWARE REQUIREMENTS:</b></p>	<ul style="list-style-type: none"> <li>• MS-Office 365 applications</li> <li>• MS-Visio</li> <li>• ERP System</li> </ul>
<p><b>WWW RESOURCES:</b></p>	<p><a href="https://www.panorama-consulting.com/resource-center/erp-industry-reports/panoramas-2018-erp-report/">https://www.panorama-consulting.com/resource-center/erp-industry-reports/panoramas-2018-erp-report/</a></p> <p><a href="https://www.top10erp.org/Case-Study-Library.aspx">https://www.top10erp.org/Case-Study-Library.aspx</a></p> <p><a href="https://www.cio.com/article/2439502/enterprise-resource-planning/enterprise-resource-planning-erp-definition-and-solutions.html">https://www.cio.com/article/2439502/enterprise-resource-planning/enterprise-resource-planning-erp-definition-and-solutions.html</a></p> <p><a href="https://www.erpfocus.com/erp-implementation-costs.html">https://www.erpfocus.com/erp-implementation-costs.html</a></p>

**INDICATIVE  
CONTENT:**

- Introduction to Enterprise Systems for Management
- Information Silos
- Systems Integration
- Functional Enterprise Systems Architecture
- ERP Implementation
- Operations and Post-implementation
- Organizational Change and Business Process Reengineering