

DEREE COLLEGE SYLLABUS FOR:	
ITC 4979 ICT Capstone Project (Fall 2021)	3/0/3 UK LEVEL: 6 UK CREDITS: 15
PREREQUISITES:	<p>ITC 2088 Introduction to Programming ITC 2197 Object Oriented Systems & Techniques ITC 2205 Software Engineering Practices ITC 3006 Mathematics for Computing ITC 3051 User Experience and Interaction Design ITC 3160 Fundamentals in RDBMS ITC 4056 Enabling Technologies ITC 4214 Internet Programming ITC 4380 Artificial Intelligence Principles ITC 4140 Methods in ICT Project Research & Management MA 2010 Statistics I <i>or</i> MA 2021 Applied Statistics for Business <i>or</i> MA 2025 Applied Statistics for Science</p> <p><i>Students must have completed at least 90 credits, as well as five (5) modules from one of the concentration areas.</i></p>
COREQUISITES:	None.
CATALOG DESCRIPTION:	Work on an ICT solution or component, in the context of user experience, intelligent systems, games, or professional sw solution on an approved topic, with minimum supervision.
RATIONALE:	The module is the capstone for the students in the Information Technology program, and the 2 nd part of their final year experience. Students will gain the experience of working on a realistic project and combine academic with professional practices, including domain-specific research, gradual progression, revisiting and evaluation. Students are expected to work on the topic they have acquired approval for in ITC 4140 – Methods in ICT Project Research and Management.
LEARNING OUTCOMES:	<p>As a result of taking this course, the student should be able to:</p> <ol style="list-style-type: none"> 1. Evaluate methodologies, standards, tools and frameworks in the context of user experience, intelligent systems, games, or professional sw development. 2. Analyse the requirements of a complex system. 3. Design, develop, test and deploy ICT system elements and solutions. 4. Develop structured documentation to support a solution. 5. Apply effective project management to plan their project and meet deadlines.
METHOD OF TEACHING AND LEARNING:	In congruence with the teaching and learning strategy of the college, the following tools are used:

	<ul style="list-style-type: none"> • Progress meetings for discussion and formative feedback on milestone submissions. • Office hours held by the instructor to provide further assistance to students. • Use of the online content management system (Blackboard CMS) to further facilitate communication. 						
ASSESSMENT:	<p>Summative:</p> <table border="1"> <tr> <td>1st assessment; Project defence and presentation structured presentation of the capstone work // evidence of the applied knowledge and skill // evidence of achievement of the intended learning outcomes</td> <td>10%</td> </tr> <tr> <td>Final assessment: Project Research project, independent or part of an R&D program</td> <td>90%</td> </tr> </table> <p>Formative:</p> <table border="1"> <tr> <td>Milestone submissions</td> <td>0%</td> </tr> </table> <p>The formative assessments aim to prepare students for the summative assessment.</p> <p>The 1st assessment tests LOs 1-5. The final summative assessment tests the LOs 1-4.</p> <p><i>Students are required to resit failed assessments in this module.</i></p>	1 st assessment; Project defence and presentation structured presentation of the capstone work // evidence of the applied knowledge and skill // evidence of achievement of the intended learning outcomes	10%	Final assessment: Project Research project, independent or part of an R&D program	90%	Milestone submissions	0%
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Final assessment: Project Research project, independent or part of an R&D program	90%						
Milestone submissions	0%						
INDICATIVE READING:	<p>REQUIRED READING:</p> <ol style="list-style-type: none"> 1. A list of selected articles from journals of high impact factor in the field. 2. David V. Thiel, <i>Research Methods for Engineers</i>, Cambridge University Press, 1st edition, 2014, ISBN-13: 978-1107610194 3. Supervisor's guidelines and supporting materials. <p>RECOMMENDED READING: <i>Recommended readings list available through Blackboard, based on topic.</i></p>						
INDICATIVE MATERIAL: <i>(e.g. audiovisual, digital material, etc.)</i>	<p>REQUIRED MATERIAL: N/A</p> <p>RECOMMENDED MATERIAL: N/A</p>						
COMMUNICATION REQUIREMENTS:	<p>Daily access to the course's site on the College's Blackboard CMS and the acg email.</p> <p>Effective communication using proper written and oral English.</p> <p>Use of word processing and/or presentations software for documentation and presentation of deliverables and the final project.</p>						
SOFTWARE REQUIREMENTS:	<p>MS Office</p> <p>Adobe CC Suite.</p> <p>All software used in the context of the modules of your study.</p>						
WWW RESOURCES:	<p>Available through Blackboard based on topic.</p>						

INDICATIVE CONTENT:	N/A
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