DEREE COLLEGE SYLLABUS FOR: **ITC 4879 ICT CAPSTONE PROJECT** **3/0/3** (Previously: ITC 4979 ICT CAPSTONE PROJECT) **UK LEVEL: 6** (Updated Fall 2023) **UK CREDITS: 15**	
PREREQUISITES:	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 4040 Methods in ICT Project Research & Management MA 2010 Statistics I ***or*** MA 2021 Applied Statistics for Business ***or*** MA 2025 Applied Statistics for Science *Students must be in their senior year of studies.*
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 2nd 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 4040 – Methods in ICT Project Research and Management.
LEARNING OUTCOMES:	As a result of taking this course, the student should be able to: 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: • 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.

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<tr><td>ASSESSMENT:</td><td>
Summative:
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<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>
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Formative:
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<tr><td>Milestone submissions</td><td>0%</td></tr>
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The formative assessments aim to prepare students for the summative assessment.

The 1st assessment tests LOs 1-5.
The final summative assessment tests the LOs 1-4.

Students are required to resit failed assessments in this module.
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<tr><td>INDICATIVE READING:</td><td>
REQUIRED READING:

A list of selected articles from journals of high impact factor in the field.
David V. Thiel, Research Methods for Engineers, Cambridge University Press, 1st edition, 2014, ISBN-13: 978-1107610194
Supervisor’s guidelines and supporting materials.

RECOMMENDED READING:
Recommended readings list available through Blackboard, based on topic.
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<tr><td>INDICATIVE MATERIAL:
(e.g. audiovisual, digital material, etc.)</td><td>REQUIRED MATERIAL: N/A

RECOMMENDED MATERIAL: N/A</td></tr>
<tr><td>COMMUNICATION REQUIREMENTS:</td><td>Daily access to the course’s site on the College’s Blackboard CMS and the acg email.
Effective communication using proper written and oral English.
Use of word processing and/or presentations software for documentation and presentation of deliverables and the final project.</td></tr>
<tr><td>SOFTWARE REQUIREMENTS:</td><td>MS Office
Adobe CC Suite.
All software used in the context of the modules of your study.</td></tr>
<tr><td>WWW RESOURCES:</td><td>Available through Blackboard based on topic.</td></tr>
<tr><td>INDICATIVE CONTENT:</td><td>N/A</td></tr>
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