

## Technology and Learning Year One Capstone Project – CS7040

Module Code	CS7040
Module Name	Technology and Learning Year 1 Project
Short Title	Capstone
ECTS weighting	20
Semester taught	Semester one and two
Contact Hours	Lecture hours:18 Total hours:18
Personnel	Inmaculada Arnedillo-Sánchez, Richard Millwood, Brendan Tangney & other appropriate supervisors
Learning Outcomes	<p>Upon successful completion of the module students should be able to:</p> <ul style="list-style-type: none"> <li>• Integrate the pedagogical and technological skills developed throughout the year.</li> <li>• Apply the research process and know a range of research methodologies, data collection and analysis techniques applicable to technology enhanced teaching and learning research.</li> <li>• Apply research process to investigate an instance of technology enhanced teaching &amp; learning</li> <li>• Identify a relevant and feasible area of research</li> <li>• Formulate and clarify a focused research question</li> <li>• Demonstrate clarity of problem definition and scope</li> <li>• Successfully plan and manage an extended research and writing process</li> <li>• Locate and assess potential research sources</li> <li>• Evaluate sources for their relevance to the topic at hand and the existing field of knowledge</li> <li>• Critically analyse and integrate appropriate secondary literature</li> <li>• Make an informed choice about appropriate research methods and/or approaches for specific research questions</li> <li>• Show an awareness of, and ability to, articulate the ground from which the analysis proceeds and from which arguments, evidence, explanations, and logic are assessed</li> <li>• Make logical connections between premises and conclusions, assertions and evidence, case studies and arguments, analyses and exemplifications, cause (s) and effect(s), statements of intent and motivations, and statement of fact and interpretation</li> <li>• Use analytic skills in writing (rather than extensive description in lieu of analysis)</li> <li>• Write in a clear style and adhere to conventional academic practice with regards citations, footnotes, and referencing</li> <li>• Demonstrate the independent learning ability required to advance his or her knowledge and understanding as part of their on-going professional development</li> </ul>
Module Learning Aims	The main objective of this module is to undertake a piece of research involving the design, develop and evaluation of a technology mediated learning experience. In so doing, students should demonstrate technical competence through the development of a technological artefact which has to bare relevance to the learning experience and/or the completion of the piece of research.
Module Content	Design, development, implementation, evaluation and reporting of a technology enhanced learning project. Overview of the research process & its key principles; Research methods; Data Collection Instruments; Data analysis
Recommended Reading List	Cresswell, J. W. (2002). Educational Research: planning, conducting, and evaluating quantitative and qualitative research. Upper Saddle River, New Jersey: Merrill Prentice Hall. Relevant literature pertaining to the topic of each research project.
Pre Requisite	Modules CS7035, CS7036, CS7066 & CS7067
Co Requisite	N/a

Assessment Details	<p>The assessment of this module requires the students to individually demonstrate the learning objectives stated above through the completion of an independent research project and the submission of:</p> <ul style="list-style-type: none"><li>• 5,000 to 7,000 word research project and</li><li>• technology artefact object of the investigation</li></ul> <p>Each dissertation will be double-marked internally and moderated by the External Examiner.</p>
-----------------------	---