AMITY GLOBAL INSTITUTE

MODULE SYLLABUS

Course	Master of Science Artificial Intelligence Awarded by Teesside University
Module Title	Research Methods
Module Syllabus No. (if any)	CIS4011-N
Content	This module will provide students with the knowledge and skills to understand the research process in the computing discipline and will provide them with the necessary skills to undertake their master's project. They will learn how to use and critically evaluate previous academic research, and to generate good evidence material to justify their professional practice. This will involve students learning about different research strategies and data generation methods and how they fit into primary research, the development lifecycle and the evaluation of the user experience, the use of the academic research literature, and research ethics.
No. of Teaching Hours	36 hours
Teaching Methods	Lectures
Assessment Methods and Weightages	The module is assessed by 100% ICA. Assessment involves students preparing a research proposal in the form of a poster with an accompanying written literature review which can form the basis of their master's project.
Skills for Maximising Learning Outcomes	Reading and Research
Dates of Examinations, Major Assessments and Assignments	See University Academic Calendar
Recommended Text	Research methods in education 9781138209886 Cohen, Louis; Manion, Lawrence; Morrison, Keith 2017 - 8th ed.
Additional Reference Texts (if any)	
Additional Remarks (if any)	

No.	Learning Outcomes/Aims
1	Communicate complex academic issues effectively to specialist and non-specialist audiences
2	Defend the rationale and decisions made for the research proposal.
3	Select appropriate research strategies and data generation methods for a computing. context, and critically evaluate their effectiveness within the development and evaluation of computing-related artefacts.
4	Use a systematic search, analysis, synthesis and critique of the literature within computing to articulate how their work, or planned work, contributes to knowledge within the computing field.
5	Design a research proposal to address significant areas of computing-related theory and/or practice.
6	Critique the professional, legal, and ethical implications of their work within a computing context.
7	Develop students' understanding of the research strategies and data generation methods that are used for research in the computing discipline and the evaluation of the user experience. Enable students to understand how knowledge is created in their discipline.
8	Enable students to conceptualise their masters project as a piece of research. Help students to prepare for their master's project and to develop their project proposal.