

AMITY GLOBAL INSTITUTE

MODULE SYLLABUS

Course	Advanced Diploma in Computing
Module Title	Computing Group Project
Syllabus / Content / Learning Outcomes	<p>This module seeks to develop the students' understanding of the various technical and applied aspects of the programme, gained during their Diploma in Computing programme. The module is designed specifically to develop creative design, teamwork and presentation skills within the context of a substantial computing team project.</p> <p>Learning Objectives</p> <ol style="list-style-type: none"> 1. develop essential group-based interpersonal skills and group management strategies, while working on a significantly sized system development; 2. provide the student with relevant insights into the life-cycle activities needed for the development of a large-scale solution system (e.g. specification, analysis, design, build, testing, evaluation, implementation). <p>Learning Outcomes On successful completion of the module, students will be able to:</p> <p>Knowledge and Understanding</p> <ol style="list-style-type: none"> 1. Recognise and apply principles underlying project management. 2. Exercise initiative and display the simple application of skills and knowledge acquired from other taught modules. 3. Work effectively as a member of a small team, managing time and accepting the responsibility in leading, or taking a critical role in a project with strict goals, constraints and deadlines. 4. Make use of critical/constructive feedback from the project team supervisors. <p>Subject Specific Skills</p> <ol style="list-style-type: none"> 1. Interpret specification of requirements. 2. Develop, evaluate and document working software according to a prescribed specification of requirements. 3. Appreciation of appropriate management and technical roles and responsibilities involved in the development of a systems design to time and resource constraints in an industrial, commercial or research environment. <p>Key Skills</p> <ol style="list-style-type: none"> 1. recognize self and peer contributions to the group effort. 2. communicate orally with others and produce clear, written, visual and oral project reports and presentations. 3. function effectively as a member of a team, working towards a common objective.
No. of Teaching Hours	<p>Teacher Managed Learning Lectures, Tutorials, Seminars etc : 48 hours</p> <p>Student Managed Learning Independent Preparation, pre-reading and analysis etc : 22 hours</p> <p>TOTAL = 70 hours</p>
Teaching Methods	Lectures, tutorials, case-studies analysis, research journals and group discussion
Assessment Methods and Weightages	Written Assessment (3000 Words) – 100%
Skills for Maximising Learning Outcomes	Reading and Research
Dates of Examination and Submission of Assignment	To be advised and confirmed by respective module lecturer on detailed/specific assignment deadlines
Recommended Text & Reference	The module is designed to develop higher order intellectual skills (problem solving) and appropriate personal qualities including team working. Each group will develop and document effective, robust and high quality computing systems to a professional standard in response to a supplied specification of requirements. James Woodcock - Formal Aspect of Computing - Springer

Note: All Information provided to Amity will be kept strictly confidential except for those required under statutory requirements and by government authorities and relevant university partners and accreditation bodies as part of the regulatory or course requirements.

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Lesson No.	Learning Outcome
1	Principles of good project management
2	Develop a suitable design for software to meet a prescribed Requirements Specification.
3	Delivery of items as specified in the Requirements Specification
4	Communication and presentation skills in a design reviews, walk-through and group meetings.

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