

AMITY GLOBAL INSTITUTE

MODULE SYLLABUS

| | |
|--|---|
| Course | Bachelor of Science Honours in Computer Science (Web and Mobile Development) (University of London) |
| Module Title | Software Design and Development |
| Module Syllabus No. (if any) | CM2010 |
| Syllabus / Content / Learning Outcomes | This module aims to advance your software development skills so that you can write more robust and complicated programs. You will learn how to use a range of programming techniques that will allow you to deal with unwanted or unexpected events that might happen when your application is running. You will use defensive coding to check data before processing it, and exception handling to gracefully manage unforeseen or unwanted occurrences. You will learn how to discuss program structure concerning cohesion (how to meaningfully organise code into modules) and coupling (how to define the interactions between different parts of the program). You will learn about test-driven development, where you write tests for your code, and write the code itself, in parallel. You will also learn how to use software versioning tools to manage a software project as it develops. |
| No. of Teaching Hours | Contact Hours – Lectures, Seminars & online activity (22 x 3) = 66 Independent Preparation, pre-reading and analysis = 84 TOTAL = 150 |
| Teaching Methods | Lectures, tutorials, case-studies analysis, research journals and group discussion. |
| Assessment Methods and Weightages | One two hour unseen written examination and coursework Coursework 50% and Written examination 50% At least 35% in each element of summative assessment and a combined weighted average of at least 40%, subject to the application of rules for compensation. |
| Skills for Maximising Learning Outcomes | Reading and research |
| Dates of Examinations, Major Assessments and Assignments | Please refer to www.london.ac.uk exam tables If your effective date of registration is: <ul style="list-style-type: none"> • 1 October, you will take your first examination(s) in March of the following year, • 1 April, you will take your first examination(s) in September of the same year. |
| Topics covered | <ul style="list-style-type: none"> • Language primer 1: variables and conditionals • Language primer 2: control flow • Language primer 3: functions • Version Control • Collaboration using version control • Module coupling and cohesion • Unit Testing • Test driven development • Defensive coding • Exception handling |

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.