EMT 7101 Computer Applications in Engineering

Hours Per Week			Hours per Semester	Weighted Total Mark	Weighted Exam Mark	Weighted Continuous Assessment	Credit Units
LH	PH	TH	CH	WTM	WEM	WCM	CU
3	2	5	45	100	60	40	3

Course Description
The course covers relevant computer concepts, operating systems, software design and programming, and computer applications.

Objectives/Aim
- To enable the student understand and use Computer and Information Technology in the construction management projects and processes.

Course Outline
1. Advanced computer concepts
   [12CH]
   1.1. Representation of integers,
   1.2. Real values,
   1.3. Characters and instructions;
2. The operating system
   [12CH]
   2.1 Disk operating system
   2.2 Windows operating system
   2.3 Other operating systems
3. Software development
   [12CH]
4. Computer programming
   [12CH]
5. Computer applications for Construction Managers
   [12CH]

Learning Outcomes
The student will be able to:
- Understand and use Computer and Information Technology in the construction management process.

Method of Teaching/Delivery
The course will be conducted through lectures, tutorials, practical exercises and assignments. Basic lecture materials provided by the Lecturer will be supplemented by individual reading effort by students.

Assessment Method
Continuous assessment through assignments and practical tests, and final written examination. The final examination carry 60% of the total mark, while continuous assessment will carry a total of 40%.

Reading/ Reference Materials
1. Andrea diSessa (2000) ***Changing Minds: Computers, Learning, and Literacy***; The MIT Press

2. Luehrmann A. and Peckham H. (1984***) Computer Literacy: A Hands-On Approach***, First Apple Edition, Macmillan/Mcgraw-Hill School