

Course Syllabus:

Software Engineering II course

Enroll to Excellence

Objectives:

This course provides an opportunity for applicants for the large computer project development in the engineering approach. Applicants will study the fundamentals of object-oriented analysis, design and implementation, formal methods in software development, quality of process and products.

Medium:

Cantonese supplemented with English

Prerequisites:

Applicants should have the software engineering and basic programming (Java) skill.

Award of Certificate:

Students who achieve an attendance of 75% or above are qualified for the Attendance Certificate issued by the Department.

Topics include:

- Object-Oriented Software Development
- Conceptual Object Architecture models (objects, encapsulated attributes and operations)
- Representation of the proceeding object architecture using UML (Unified Modeling Language)
- Formal Methods
- Formal Specification
- Z Specification Language
 - Z Notation
 - State Space
 - State Changing Operation
 - State Inspecting Operation
 - More Schemas
 - Success VS Failure
 - Specifying Exceptional Class

Total Hours: 30