Module Title: Project Work II

Module Code: CMM2322

Module Value: 2.0

Duration: 30 weeks

Class-Contact Hours: Lecture 6 hours.

Tutorial 54 hours.

Laboratory 60 hours.

Assessment Scheme: Continuous Assessment 100%

Module Rationale/Aims:
- to expose students to work cooperatively in a group;
- to further develop the students' skills in software development;
- to further develop the students' skills in project planning and management;
- to further develop the students' skills in systems testing.

Learning Objectives:

Students will be able to:
- demonstrate the knowledge and skills necessary to plan and manage a group software development project;
- apply the knowledge and skills to cooperatively analyse, design, implement and test a software solution of a problem set.

Syllabus Keywords:

feasibility study, systems analysis, requirements specification, systems design, programming, software development, implementation, project management, documentation, application development tool, software testing.

Textbooks/References:

Gary B. Shelly, System Analysis and Design (3rd ed.), International Thomson Publishing, 1998. Roger S. Pressman, Software Engineering - A Practitioner's Approach (4th ed.), McGraw-Hill, 1997.Chai Wan Computing Course Board Page 2 - 36

Content Lecture Tut/Lab.

1 Project Management

2 System Testing

3 Business-oriented Project

4 Technical-oriented Project

This is a group project. The unit is centred on an approach within which students will apply relevant knowledge and skills acquired in their studies to develop a software solution of a problem set in a group. This unit provides the opportunity to link material from different units in the course, through the type of problems set, and the manner in which the solutions are implemented. A variety of software tools and hardware platforms are available to the students, and the problems set essentially reinforce the use of these, in a problem solving context, as well as further developing the students' problem solving abilities. Problems take into account the material covered by the students at the time the problem is set, together with the level of the treatment of that material. Two major problems are set in this unit, each of which requires students to cooperatively apply their knowledge in implementing a solution. The first problem is of a business nature, such as an order processing system, and requires students to specify, design, implement, test and document the system. The second problem is of a more technical nature, such as developing a relational database management system, and requires students to specify, design, implement, test and document the system. Students are expected to put into practice the material that they have covered in the units preceding the commencement of the project and to use sound project management techniques.