

# **MSE DISSERTATION** **GUIDELINES FOR STUDENTS**

## **Procedure for Students to identify a Dissertation Project and a Supervisor**

### **There are three ways**

- i. A list of SE lecturers' project titles will be published on the web after your final exams and you may approach the lecturer concerned directly
- ii. A list of Software Engineering research groups can be accessed at [http://www.fsktm.um.edu.my/web/SE\\_researchGroup.htm](http://www.fsktm.um.edu.my/web/SE_researchGroup.htm) and you may approach the lecturer to discuss the possible research projects you may undertake. After a project title or a research idea is agreed you will write a pre-research proposal and submit to the Head of Research group through the lecturer concerned for approval
- iii. If you have your own project idea related to your work, etc, you may approach any of the SE lecturers to discuss the viability of your project.

### **List of Supervisors**

All the lecturers in SE Department

### **Examples of MSE Dissertation Titles**

- i. Product-based**
  1. A customizable report generator component system using XML-driven, component-based development approach
  2. A Tool supporting tool and task models in user-centred design approach
  3. Automated real-time commentary generation for football games
  4. Implementing a simulator for a Proportion Server
  5. Visualizing feature models for product lines
  6. A random graph generator
- ii. Theory-based**
  1. Developing a Resource Aware Data Warehouse Architecture
  2. Using Quality attributes to define and evaluate enterprise information integration architectures
  3. An executable framework for precise metamodeling
- iii. Process-based**
  1. Formal analysis of metamodels
  2. Capturing requirements for safe operation properties of a proposed emergent system

### 3. Performance modeling through event-based traceability