**Software Engineering Methods**

**Worksheet 2**

**Use Cases & Activity Diagrams**

Using the Visual Studio Activity Diagram Tool draw an Activity Diagram for each of the following Use Cases making any assumptions about what class or classes might be requried:

(See Practical 1 for details of how to create a modelling project and add a new item to it)

1. When matriculating the student will supply their personal details (name, address, date of birth). **If the student is an overseas student then their passport number must be entered.** Once these details have been stored a matriculation number will be generated by the system. The student will then provide details of their desired course. **Students who are funded by SAAS must have their SAAS number recorded, non SAAS students must have their means of payment recorded.** The student will then be enrolled on the appropriate programme.

Draw a use case diagram (UCD) **and** an activity diagram for this Use Case.

1. Consider the following use case for an airport boarding system.

Passengers for a flight will be called to the departure lounge. When the flight begins boarding the list of checked-in passengers will be retrieved. Each passenger will then have their boarding card scanned as they board and their ID number checked against the checked in list. If the passenger has not checked in for the flight an alert message should be generated otherwise they will be allowed to board. If all the passengers on the checked-in list have boarded then the passenger manifest list will be printed.

Draw an activity diagram for the airport boarding system.