



# Software Engineering

- This module builds on what you have learnt in:
  - Object Oriented Analysis and Design
  - Project Management



# Software Engineering

- 1 Lecture 2 Practical
- Final Exam: 60%
- Continuous Assessment: 40%
  - Quizzes
  - Class Test
- Course text : Software Engineering. 10<sup>th</sup> Ed. 2015. Sommerville.
- Notes and other materials are available at:  
<http://lyitbb.blackboard.com>



# Learning Outcomes

- Compare and contrast software process models and select a suitable software process model for use on a software project.
- Evaluate quality in the software process and process improvement initiatives.
- Appraise software quality models.
- Establish a software measurement programme.
- Manage software configuration for a software project.



# Software Engineering

## ■ Software Process

- The activities of software process.
- Software process models.
- Coping with change



# Software Engineering

- **Agile Software Development**
  - The agile manifesto.
  - Agile methods.
  - Agile development techniques.



# Software Engineering

## ■ Software Quality

- Software quality models.
- Quality management.
- Process improvement.



# Software Engineering

- **Software measurement and metrics**
  - The importance of measurement.
  - Internal Product attributes.
  - External Product attributes.
  - Planning a measurement program GQM.



# Software Engineering

## ■ Configuration Management

- Version management.
- System building.
- Change management.
- Release management.