

Topics/Content outline:

Topics include: the principles of software quality assurance, selection of appropriate testing strategies, test cases to verify the quality of an intermediate level software application.

Expanded Outcomes
Outcome 1 <ul style="list-style-type: none"> Discuss the generally accepted principles of quality. Evaluate quality assurance and validation techniques. Apply review procedures, including formal and informal reviews.
Outcome 2 <ul style="list-style-type: none"> Differentiate between different types of tests and where they are used – capacity, performance, user acceptance, business acceptance, system tests, unit tests, black box tests, white box tests, etc... Differentiate between testing axioms and myths
Outcome 3 <ul style="list-style-type: none"> Design test cases Develop data and expected results
Outcome 4 <ul style="list-style-type: none"> Understand what an automated testing tool is Develop criteria for evaluating different automated testing tools

Assessment:

Weighting	Nature of assessment	Learning Outcomes
20%	Written research report on testing techniques	1, 2
40%	Project - Test plan and test data	3
40%	Final examination	1, 2, 3, 4

Learning and teaching approaches:

Lectures, tutorials and practical exercises.

Learning resources required:

Textbook: refer to the current programme booklist.

Student access to Blackboard.

Learning resources recommended: