Topics/Content outline:
Topics include: systems development approaches and methodologies, systems analysis, systems design.

Extended outcomes
Explain the concepts of the Systems Life Cycle and Systems Development Life Cycle. Identify and evaluate the methods used in the Systems Development Life Cycle • Describe the development life cycle and discuss its application at all scales of development. • Discuss the role of stakeholders. • Relate the product life cycle to the system development life cycle. • Analyse the roles of various types of models in the cycle.
Apply process, data and object modelling techniques and tools • Apply object oriented techniques (UML2) in examples and case studies for object, process and data modelling. • Apply network modelling techniques.
Solve a business systems problem by choosing a method and applying the analysis and design techniques. • Document business problems and systems requirements. • Analyse and model the required system using an appropriate selection of modelling tools. • Document the model. • Outline a physical implementation of the system.

Assessment:

Weighting	Nature of assessment	Learning Outcomes
30%	A professional systems proposal	1, 2, 3
30%	A design specification from a system proposal	1, 2, 3
40%	Final examination	1, 2, 3

Learning and teaching approaches:
Interactive discussions, class exercises, research activities, lab exercises and case studies

Learning resources required:
Textbook: refer to the current programme booklist.

Student access to Moodle
Learning resources recommended: