MSc (Hons) Computer Systems & Network Engineering

This is a programme of study that involves networking, software development technologies and architectures for the design and management of modern distributed computer systems and networks. The emphasis is on a software engineering approach based on sound modern software engineering project management methods, tools and techniques, which enable an integrated lifecycle systems development view.

The programme aims to provide students with the knowledge, skills and understanding required to allow them to contribute to the planning, design and management of modern network based computer systems. Students will gain the understanding of critical evaluation of existing technology options, future developments, protocols, architecture and tools needed to support the development and delivery of advanced network services. Upon successful completion of this Master's programme graduates are expected to be proficient in the development of new enterprise distributed and/or web-enabled systems, the integration of legacy systems into intranets or extranets, and advanced data and telecommunication technologies.

Professional recognition

This programme is accredited by the British Computer Society (BCS). On successful graduation from this degree, the student will have fulfilled the academic requirement for registration as a Chartered IT Professional (CITP) and partially fulfilled the education requirement for registration as a Chartered Engineer (CEng) or Chartered Scientist (CSci). Please contact the BCS for further information.

Career options

Graduates from this programme are equipped for employment in industry commerce or education to work as independent consultants or within teams in diverse areas such as networking, business data communication and telecommunication, Internet and e-commerce applications, IT support, advanced research, teaching and training.

Semester A (July –December)

➢ COMP1427- Cyber Security
➢ COMP1471- Enterprise Software Engineering Development
➢ COMP1609-Network and Internet Technology and Design.
➢ COMP1618- Software Tools and Techniques
➢ COMP1252, PG Project (CIS-Start)

Semester B (January June)

➢ COMP1426, Network Management
➢ COMP1431, Audit & Security
➢ COMP1470, Systems Development Management and Governance
➢ COMP1617, Network Architectures and Services
➢ COMP1252, PG Project (CIS-Finish)

Entry Requirements

Applicants should have:

EITHER A good first degree in computing, computing science or a numerate subject (such as mathematics, physics, engineering, IS, multimedia) which includes some software development and some computer networking or communications

OR substantial commercial/industrial experience including software development using modern programming languages and design.

"Success is define by the choices you make"