COMPUTER NEWTWORKS

BSc (HONS) COMPUTER NEWTWORKS (INTERNATIONAL)

AWARDED BY UNIVERSITY OF SALFORD, MANCHESTER

COURSE SUMMARY

There are very few industries now that do not rely on computer networks and our society's economic wellbeing depends increasingly on their continued functionality and development. This course will provide you with a systematic understanding of the field of computer networks, encompassing a range of perspectives including: the underlying principles of how they, and associated technologies, work; the way these principles are put into practice in industry-standard network products; and the practical aspects of running a mission-critical network within real organisations.

COURSE DETAILS

This course aims to provide you with: an appreciation of the context of modern communications and networking; a knowledge and conceptual understanding of a range of aspects of computer networking, including an awareness of relevant non-technical aspects crucial to implementation; the ability to apply knowledge and understanding in an informed way after considering a range of possible options, arguments and assumptions; the practical skills to be able to make an immediate contribution to the workplace; contact with both researchers and practitioners; the ability to become an independent learner able to adjust to (and be part of) future developments in the field.

It also places an emphasis on introducing you to a range of different software and hardware and their integrated use within a heterogeneous network infrastructure.

You will have the opportunity to complete a year-long industrial placement, which you arrange with our support, between Year 3 and 4 that aims to provide you with opportunities to apply your academic knowledge and interpersonal skills in a real-world environment, and to reflect on your own personal development and career choices.

YEAR ONE - FOUNDATION YEAR

The Foundation Year has been designed to bridge the gap between High School and effective Honours Degree Study. The modules focus on the development of key skills, including studying independently and collaboratively, critical thinking, academic and professional writing and quantitative techniques. A key focus of the Foundation Year is a collaborative project, where students will work together to develop solutions to real-world problems.

- Critical Reflection and Thinking
- Human Rights
- Arabic for Business
- Multi-disciplinary Project

- Computer Systems
- Applied Mathematics
- The Modern History of Bahrain

YEAR TWO

Modules include:

- Introduction to Computers and Network Systems
- Web Content Creation
- Technologies in Context
- Database Systems
- Introduction to Windows Programming
- Professional Development and Practices

YEAR THREE

Modules include:

- Mobile and Internet Television Streaming
- Principles and Concepts of Network Technologies
- Routing & Switching
- Group Design Project
- Mobile Networking and Network Simulation
- System Administration

YEAR FOUR

Modules include:

- Advanced Routing & Switching
- The WAN and Global Networks
- Business Practice & Employability
- Information Security
- Project for Computer Networks

Please note, exact modules may vary in order to keep content current. Your tutor will be able to advise you as to the modules you will study on or before the start of the programme.

ENTRY REQUIREMENTS

- Statement of Graduation (Secondary School General Certificate)
- High School Diploma with an overall average of 75% over the last three years of high school (years 10, 11 and 12)
- IELTS Academic Test Score of 5.5 minimum, with a minimum of 5.0 in each component

APPLICANT PROFILE

We are looking for applicants with a strong interest in computer networking. You will be interested in what makes a network 'tick' and how the different elements of which it can be composed can be combined to create a whole that is fit for its intended purpose. An attention to detail and a good work ethic are important to this course particularly if you are interested in taking up the opportunity of doing an industrial placement as part of your degree.