

B.Tech in Networking Technologies (Ordinary Degree)

Programme Description

This programme should appeal to students who are interested in designing and building computer networks. You will learn about the physical installation and commissioning of networks and connection to the Internet. You will also be able to maintain networks, including redesigning and upgrading them. The programme will incorporate modules on CISCO network systems. CISCO is the leading networking company and you will have the opportunity to acquire the valuable industry standard qualification, 'CISCO Certified Network Administrator', CCNA, during your course of studies. The programme also includes a broader range of technical modules so that you will be able to maintain computer and network hardware, and system software. There is a strong emphasis on the practical application of the technologies you will learn about.



Entry Requirements

Irish Leaving Certificate in five subjects which must include Mathematics with a minimum of grade C3 at Ordinary level, and English or Irish, or a qualification that the Institute deems equivalent.

Duration

Three years full-time (Ordinary Degree) with an exit option after two years (Higher Certificate).

Award

Ordinary Degree (NQAI Level 7) in Networking Technologies of the Dublin Institute of Technology. The programme is structured to permit exit after successful completion of Year 2 with a Higher Certificate in Networking Technologies (NQAI Level 6).

Career Opportunities

As a student you will acquire the technical skills and knowledge necessary for a career in IT and computer networking. These skills cover the design, planning, installation, configuration, administration and maintenance of local and Internet connected networks. You will also acquire the professional and "people related" skills required for the rapidly changing work environment. Virtually every organisation in every area of work (such as commercial, industrial, service, educational, everywhere!) has computer networks and needs the services of network technicians and engineers. The combination of the DIT qualification together with the industry recognised CCNA qualification ensures a high demand for graduates of this programme. Graduates of this Programme will be key players in communication network management teams in all industrial, commercial and service organisations, supporting their communications and computer networks and to providing ancillary technical services.

Progression

Graduates will be equipped to progress through the DIT ladder system to the Honours degree programmes within the Institute or elsewhere in Higher Education.

For further details contact:

Mr Dermot Clarke

Ph: 01 402 4799

Email: dermot.clarke@dit.ie



What will I be studying?

This is a three year programme comprising of six semesters, covering the following topics:

Year one

- Physical Computing
- Computer Hardware & Security
- Digital Age Technology
- Electronics
- Network Fundamentals (CCNA 1)
- Web Development
- Applied Data Networking
- Information Literacy Project
- Routing Protocols and Concepts (CCNA 2)

Year two

- Problem Solving with C
- Microcontrollers & Electronics
- Business Management
- LAN Switching & Wireless (CCNA 3)
- WAN Technologies (CCNA4)
- Operating Systems
- Project

Year three

- Server-side Web Development
- Project Management
- Work Placement
- CCNA Network Security
- CCNA Wireless Networks (option)
- Networked Embedded Systems
- Programming for Networked Systems
- Data Centre Technologies
- Financial Management

Programme Outline

This programme has a very heavy emphasis on continuous assessment. A great deal of your time will be spent working on assignments and projects, both inside the college and in outside organisations or communities. You will learn by doing, by working on practical, hands-on applications rather than from theory. There are no dedicated mathematics or science modules, but instead you will acquire the skills you need in these areas by using them in real life, practical situations as part of your assignments and projects. Some modules still retain an end of semester exam.

Student Profile

'This programme appealed to me because I liked taking things apart and finding out how they work. The fact that it has a lot of hand-on practical work was also an appealing factor in my decision to join this programme. The lecturers are very accessible, approachable and very helpful with our projects and assignments. Making friends here in DIT was easy as our lectures and labs are all small groups and there is a great range of societies and clubs to participate in'.

DT080 Student

Further Information:

Mr Dermot Clarke

Email: dermot.clarke@dit.ie

Tel: 01 402 4799