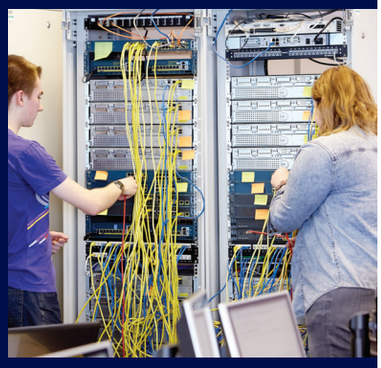
Faculty of Computing, Engineering and the Built Environment

BIRMINGHAM CITY University

Information and Communications Technology
BSc (Hons)

COURSE FACTS

Faculty	Computing, Engineering and the Built Envieonment
School	Computing, Telecommunications and Networks
Application	Apply through UCAS. Institution code B25, Course code G520
Location	City Centre Campus, Millennium Point
Duration	Full-time: three years, sandwich: four years



KEY FACTS

- Includes not only core IT themes, such as managing operating systems, switching and routing protocols, data modelling and database design, and application development, but also your personal development as a practically minded business professional.
- The School of Computing, Telecommunications and Networks is internationally recognised for teaching quality, research and extensive industry partnerships.
- We are established as one of the leading academies for Apple, Citrix, Microsoft and Cisco.
- We use dedicated facilities for work such as systems analysis, virtual environments, enterprise systems, business intelligence, and to support the application areas of computer electronic laboratories to develop real-time systems.

WHY CHOOSE US?

- The course covers all core enabling technologies, such as networking, databases, internet computer hardware and operating systems, but in a practical business context.
- Access leading Centres of Academic for Citrix, Cisco Systems and Microsoft.
- You will have the opportunity to take employer and internationally recognised IT Professional industry-standard qualification of professional bodies and vendors alongside your course.
- You will also have the opportunity to participate in renowned international programmes and competitions.

COURSE OVERVIEW

This multidisciplinary course is designed to reflect the diversity of challenges involved in integration of ICT into its environment. The course includes all core enabling technologies, such as networking; databases; programming; computer systems, in a business and professional context.

The overall aim of the course is the development of ICT Professionals with a unique mix of technical and managerial competency, with skills applicable to the ICT sector and its diverse areas of business.

The course presents all core enabling technologies, such as networking, databases, internet and operating systems, but in a business context.

You will benefit from a sandwich year with placements in such prestigious organisations such as IBM, TNT, Caterpillar, Bank of England and EON.

On completion of this course you will have the skills to become a confident hybrid professional with a unique mix of technical and managerial competency, whose skills are in demand in the IT industry and beyond, in areas such as management consulting and education.

www.bcu.ac.uk/ctn

cisco Networking Academy

Business and Employability	Enterprise Systems Development	Infrastructure Technologies	Communication Networks

YEAR 1					
IT Professionalism	Data Analysis	Web Technologies	ICT Programming	Computer Systems Technology	Computer Networking Basics

YEAR 2				
Research and Professional Practice	Business and Technology Entrepreneurship	Enterprise Databases: Design and Implementation	Infrastructure Services	Switched LANS and WANS

YEAR 3			
Individual Project	Enterprise eSystems	ICT Infrastructure Management	Network Design and Management

COURSE STRUCTURE

Communication Networks: This theme includes technologies employed in Local and Wide Area Networks. It follows the Cisco curriculum and introduces protocols, LAN/WAN terminology, TCP/IP and addressing.

Infrastructure Technologies: Incorporates industry practices of ICT planning and management, development and configuration of secure systems and services using software and hardware. The curriculum is designed with technical employable skills with the inclusion of Microsoft, Apple, Citirx and open source technologies.

Enterprise Systems Development: This introduces principles of application development, database design and implementation, data modelling and extraction for interaction and presentation. The theme introduces integrated development of business application for commercial competitiveness.

Business and Employability: This provides development of professional and graduate skills. Introduces business macro-environment and market led innovation planning. The theme emphasises on key employable skills to include individual research project.

ASSESSMENT

A range of assessment methods is used throughout the course including continuous assessment, in-class tests, examinations, laboratory exercises and project work.

ENTRY REQUIREMENTS

- 280 points. Minimum of two six-unit or one 12-unit A-Level (GCE or VCE)
- Pass National Diploma with Merit/Merit/Distinction
- Advanced Diplomas are accepted
- AGNVQ overall Merit and GCSE Maths grade C
- Irish: 280 points in ILC, Scot: 280pts from four Highers, IB: 30pts

FURTHER STUDY

The University has a range of either taught (MSc) or research (MPhil and PhD) postgraduate programmes. Details can be found on the postgraduate section of the website.

EMPLOYABILITY

The course prepares you to confidently move towards a number of careers including an IT professional responsible for the planning, implementation, management and support of IT infrastructure including knowledge exchange; enterprise solution developer; communication network analysts; network operating systems administrator; ICT technical support and management professional; ICT consultant; business analyst; database developer or web applications developer.

Recent graduates from the school have gone on to work for Hewlett Packard, Bell Micro, Birmingham City Council, BT, Cisco, Deloitte, Ericsson, Fujitsu, IBM, Intel Corporation, NHS, Motorola, National Express, NEC, Royal Mail, Shell IT, JP Morgan Chase and Co, Carillion, Siemens and Nokia.

Birmingham City University,
Faculty of Computing, Engineering and
the Built Environment, Curzon Street,
Millennium Point, Birmingham, B4 7XG

For enquiries:
T: +44 (0)121 331 5595
F: +44 (0)121 331 7994
W: www.bcu.ac.uk/enquiries

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