

BSc Technology & E-commerce



 **British Institute**
of Technology & E-commerce

UEL
University of
East London



BSc Technology & E-commerce



Aims and Objectives

Aims

This degree is intended to meet the demands of industry for exceptionally capable, multi-skilled "elite" graduates. The curriculum offers students a broad based, academic and practical experience that will enable them to learn and practice current theories in technology, management and e-commerce as well as acquire the knowledge to specialise in a chosen field. Students will build on this knowledge to compile a portfolio of work and produce a project appropriate to their selected area(s) of specialisation.

The degree is awarded by the University of East London. In addition to the degree, students will get an Executive Diploma in Management from the Chartered Management Institute (CMI) and will cover vital components from the Sun Certified Java Programmer, Cisco Certified Network Associate and Oracle Certified Professional programmes, allowing them to sit the exams and acquire five qualifications altogether.

Objectives

- To analyse and critically evaluate the issues and problems concerning organisations and management which may arise from the adoption of e-commerce.
- To partake in active discourse around the adoption of e-commerce technology, with particular pertinence to the impact on the changing context of business and how management may develop and analyse the options available in response to the fluidity of this context.
- To critically evaluate how an organisation's existing information systems will be affected by the adoption of technology and e-commerce and analyse the solutions.
- To design, develop, enhance and implement existing and new information systems that will enable an organisation to fully exploit the potential of technology and e-commerce.
- To elaborate the technology requirements and facilities for remote, distributed electronic communications.

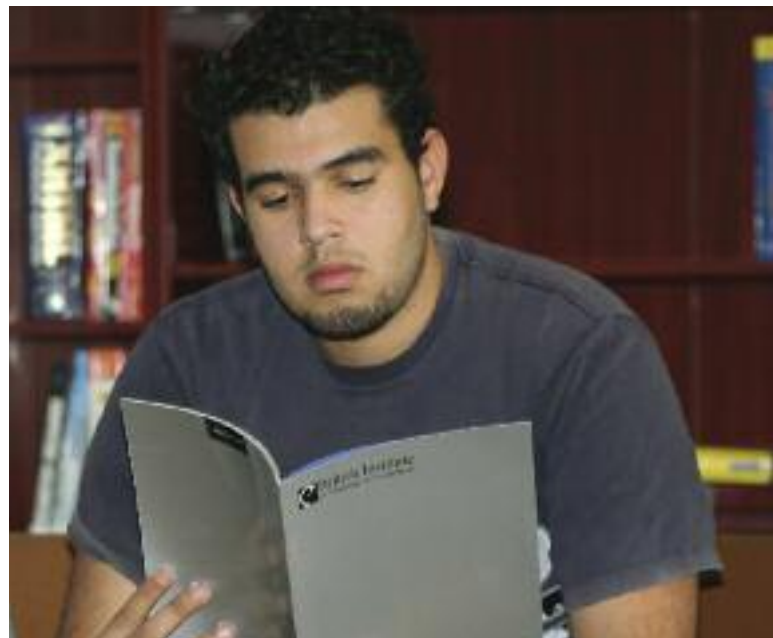
- To communicate at an advanced level, demonstrating evidence of higher organisational skills and reasoning to produce persuasive arguments.

- To form a reasoned, independent judgement on complex and controversial issues.

Admission

The minimum entry qualifications for this programme are: 180-220 UCAS Tariff points (including two GCEs or VCE A-Levels of which one must be Mathematics or a VCE Double Award) or 12+ points at A/AS Level (for applicants who completed their A/AS Levels before Summer 2003); 24 points (Pass) at International Baccalaureate level (Highers, all at level 4); 65% European Baccalaureate; 5 merits in year 2 of a BTEC National Diploma, relevant access course.

A range of international qualifications or 5 years appropriate level of work experience are also accepted. All applicants should have or be expected to gain GCSE grade 'B' or above in English and Maths - or equivalent, International applicants should have or expect to gain IELTS 6.5 or TOEFL 550.





Programme Structure

Year - 1

Higher Education Academic Skills

To provide students with core skills necessary for the study of computing within H.E. and develop personal and professional skills necessary to contribute effectively to a working environment.

Computer Architecture and Language

To provide a basic understanding of computer architecture and the relationship between the hardware and software components of a computer system.

Internet Science

To introduce the underlying technology and nature of the Internet and its exploitation in Enterprise Information Systems.

Software Engineering

To provide an understanding of information systems and the characteristics of information.

Operating Systems & Networking Technology

To develop an understanding of the theory and practice of networks, network operating systems and network technologies, underpinning good network design and management.

Business Management

To introduce students to the study of organisations and their management. To develop a foundation in managing finance, human resources and performance.

Year - 2

Legal, Social, Ethical and Professional Issues

To identify and understand requirements for appropriate and realistic employment opportunities.

Database Systems

To develop an understanding of Database Basic Concepts and design relational database systems.

Internet Security

To introduce security issues arising primarily from computer networks. To develop and deploy security issues surrounding computer networks.

E-Business Technology

To introduce the key enabling technologies for today's e-business applications. To implement the plan of a working e-business application model.

Advanced Programming

To provides a more detailed coverage of the object-oriented paradigm, building on the Object Oriented Programming (OOP) unit covered in semester one.

Strategic Management & Marketing

To approach the challenges facing the organisation creatively and objectively, develop your understanding of the organisation's likely response to change and plan for change to meet the challenges within it.

Year - 3

Higher Education Research Skills

To have a comprehensive knowledge of good research and professional practices. To understand the ethical and legal issues relating to research.

Project Management

To develop an understanding of project management, tools and techniques, phases of life cycles and roles and responsibilities of project managers.

Mobile Communication

To develop an advanced understanding of wireless communication engineering, applications and protocols.

Artificial Intelligence

To develop representation and reasoning paradigms used in AI both in theory and practice, with careful attention to the underlying principles of logic, search and probability.

Ubiquitous Systems

To introduce students to the domain of ubiquitous computing and examine the core technologies and methods used.

The Final (Individual) Project

To enable students to apply skills and knowledge gained in the programme to solve business issues. To provide students with an opportunity to develop in-depth knowledge in a chosen field.



Business Focus

In today's global economy, there is strong demand for technology managers who can combine a range of technology management skills and use these to function effectively in an international business environment. With an established reputation, the programme is well known in the recruitment marketplace. The cross-cultural business skills exhibited by our graduates make them attractive to a range of organisations including large multinationals, smaller national firms and the public sector.

The BSc (Hons) Technology & E-commerce focuses on the business use of information technology and its application. Its primary goal is to develop graduates with a multi-disciplinary knowledge of information technology and management.

The course will enable students to target employers who are adopting new technologies to drive the business. Students with a BSc (Hons) Technology & E-commerce have found opportunities in:

- National Health Service
- Metropolitan Police
- Banks
 - * Lloyds, HSBC, Barclays and Abbey National

- Financial Services
- British Telecom
- Vodafone
- London Transport
- Food Chains
- British Airways

The skills workshops at BITE support personality and confidence building.

Achieving Success

Our students have found success in combining study and work. The programme is designed to allow student to work 20 hours per week enabling them to gain experience and understanding of the business environment that they may join in the future.

Professional Membership

British Computer Society (BCS)
Chartered Management Institute (CMI)
British Institute of Technology & E-commerce (BITE)



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