

Teesside MSc Information Technology

Benefits

The programme offers the following benefits to students:

- The course is designed to be studied online, hence students have the flexibility to study as and when they want; be it at home, at work, on vacation or during overseas travelling. They take control over which modules to study and when they want to take or submit their assignments.
- The School of Computing has an Excellent rating for teaching quality and is also a centre of excellence in Computing, Games and Animation, Web and Multimedia. Hence studying for a formal degree from Teesside will enable you to tap on the up-to-date and latest developments in computing and information technology.
- On completion of this course, you will be well placed for positions in industry as a leader in network management and web development.

Course Description

This course is designed for computing graduates to enable them to specialise in two areas central to computing in business and society: web development and computer networks. These themes are developed in the modules, where you will develop skills and experience in critical evaluation, research and management of real world projects. The final stage of the course will enable you to plan, manage and execute a large-scale project in IT. Where possible, you will be encouraged to relate the course to your own work experience, although provision is made for those who are not currently employed in the computer sector.

Qualification / Awarding Body

On successful completion of this programme, you will be awarded an MSc Information Technology

Awarding Body: University of Teesside

Mode

Online distance learning

Course Content (modules)

The programme comprises seven modules including a project and dissertation:

1. **Computer and Network Security**
This module will enable you to deal with the day-to-day problems occurring with networked PC computers. It will look at how organisations can help prevent the most problems through effective policies, good daily practice and professional measures. You will examine the legal framework as a context to place such policies, practice and measures.
2. **Integrated Development**
This module will provide you with the necessary skills to manage the multimedia implementation process. This module will take an integrated approach to the use of multimedia development tools. You will develop concepts and skills for utilising an appropriate scripting language.
3. **Managing Client Focussed Projects**
This module will allow you to work on a real/simulated project in an industry context. You will be able to synthesize your appropriate knowledge and apply it to real life problems for a typical client. This work will follow the logical phases of the project development cycle, allowing you to be heavily involved at each step. This module will emphasise on key areas including client consultancy, user requirements, user interface design and usability, project management and accessibility issues.
4. **Networks and System Administration**
This module will introduce you to the fundamentals of modern networking. It will examine network protocols and hardware. It will also cover systems administration including account and data management, hardware management, application and operating system

support. This module will also examine network vulnerabilities and how to design a network to minimise security risk.

5. Research Paradigms

This module will provide you with the necessary knowledge and skills to critically evaluate the use of evidence in computing and digital media, to do research and to generate your own evidence-based material to justify your professional practice. This will involve you learning about different research strategies and data generation methods, and how the techniques of enquiry are used to create and interpret knowledge in the computing and digital media disciplines.

6. Web Design and Objects

During this module, you will study design and implementation methods for web based systems and components (objects). A number of static and dynamic web methods are inspected and used on practical problems. The consensus across these methods and their current use in industry is considered. You will be expected to focus on the design and implementation of persistent objects that are re-usable during web and multimedia developments. You will learn practical skills in the design and implementation of object schema and persistent transactions. You will also analyse tool support for these methods now and in future.

7. Project and Dissertation

You will undertake a major piece of individual study in the field of computing or computer applications. Normally projects will be drawn from commercial, industrial or research-based problem areas involving you in research and investigating aspects of applied computing, then producing a major deliverable (software package, design, animation, website, etc.). The original research and the project process will be fully reported in the dissertation.

Assessment

You will complete an assignment for each of modules 1 – 6 and a dissertation of 12,000 to 15,000 words for module 7. There is no examination for this programme.

Duration of Programme

The MSc Information Technology is normally studied over a 24-month period, but this may be extended to suit your individual needs for up to a maximum of five years.

What's included

All online study materials and student handbooks are supplied. You will be allocated a tutor for academic support by RDI on request, whom you can contact by telephone and email. You will also complete an online induction and have access to an online Virtual Campus administered by RDI. Please note that there are minimum hardware requirements and you may be required to purchase certain software. Broadband is also necessary for this programme.

In Mauritius, you will have access to a programme coordinator at PTC for administrative support and also an expert resource person for advice at specific set times.

Entry Requirements

- First degree from an approved university equivalent to UK second class honours, in a computing subject.
- English ability equivalent to an IELTS score of 6.0, where the medium of undergraduate study was not English.
- Candidates without a first degree will be eligible for entry if they can demonstrate extensive industrial experience
- Candidates will be expected to have knowledge of online business systems equivalent to degree level.

Enrolment Dates

Four intakes in a year – January, April, July and October.