IT (Information Technology)

The Programme

Unit 1: Fundamentals of IT - A sound understanding of IT technologies and practices is essential for IT professionals. Information learnt in this unit will provide a solid foundation in the fundamentals of hardware, networks, software, the ethical use of computers and how business uses IT.

Unit 2: Global Information - The purpose of this unit is to demonstrate the uses of information in the public domain, globally, in the cloud and across the internet, by individuals and organisations. This unit will help you to understand the legislation and regulation governing information that flows into and out of an organisation and the constraints and limitations that apply to it.

Unit 21: Web Design and Prototyping - You will research, design and produce an interactive, responsive website that is specific to a client's needs, culminating in presenting the concept of the website using the prototype to the client.

Unit 6: Application Design - You will explore potential ideas for a new application and develop the fundamental design for it. You will then develop the designs for an application and how users will interact with it. The application that you design can be for any sector and for any purpose. You will have the opportunity to present your ideas, prototype them, and gain feedback before refining your design.

Unit 9: Product Development - Whether you are building a network, developing a website, developing a system for data analytics or creating an augmented or virtual reality resource, they are all products. It is therefore important that you understand the processes required for the development of products and that you can apply them to a variety of situations.

The teaching styles for this subject will be lectures, presentations, practical lessons, extended research and projects, individual/paired/group reports, guided research and self-study. There are two exams in the first year at 100% of your grade and in the two-year certificate there are two exams (50%) and three coursework units (50%).

WHY STUDY THIS SUBJECT?

ICT systems are used in almost all areas of working and social life. The skills, knowledge and understanding that are gained through studying this engaging and complex subject are invaluable in almost all aspects of modern life. Given that in the future, be you employed by an organisation or be you self-employed, you will most likely require the ability to either work directly with ICT systems or have the understanding and knowledge to deal with those people that do. Each of the units that have been chosen connect the dots between far-reaching aspects of a complex, 21st century working life.

CAREER POSSIBILITIES

Web developer, software engineer, network management, systems analyst, roboticist, any engineering discipline, physics, medicine and medical related courses (such as optometry, pharmacy and orthoptics) and mathematics. Other subjects that link well with this course are Mathematics, Business, Media, Computer Science and Geography.