

National Diploma for IT Practitioners

Year 1

COMPUTER SYSTEMS

To describe the internal operations of a model processor. Demonstrate knowledge of computer systems hardware. Write simple low level programs. Install and use a modern operating system.

WEB SITE DEVELOPMENT

To design and build Web Sites using HTML and WEB page generating software.

BUSINESS INFORMATION SYSTEMS

The aim of this unit is to gain an understanding of the structure of organisations and how information flows. Learners will also gain an understanding of the need for health, safety and security measures in the workplace.

SOFTWARE APPLICATIONS

To become familiar with the most commonly used software in work places and to achieve a measure of proficiency in each. This will include Microsoft Word, Excel, Access and PowerPoint

LANGUAGE AND COMMUNICATION

The unit covers written, oral, research and presentation skills.

INTRODUCTION TO SOFTWARE DEVELOPMENT

To introduce the concept of program design and implementation using Visual Basic.

VISUAL PROGRAMMING

Programming in a visual environment using Visual Basic. The use of Java Applets. Debugging and testing of programs. Review of programs against the original design and specification.

APPLICATIONS SOFTWARE DEVELOPMENT

Building a system using a software package and the programming facilities within it.

COMMUNICATIONS TECHNOLOGY

Computer Networks including the Internet.

YEAR 2

WEB SITE MANAGEMENT

Performance considerations for internet or intranet Web Sites. User requirements for a Web Site (For example: dissemination of information, e-commerce, downloading software, gathering of information). The development and promotion of Web Sites and associated documentation.

COMPUTATIONAL METHODS

Use and apply statistics. Work with algebraic and graphical tools and techniques. Demonstrate the ability to extract, consolidate and understand numeric data. The use of MS Excel.

HUMAN COMPUTER INTERFACE

The way in which people and computers interact. The aim of this unit is to give learners an understanding of the importance of HCI in the development of user friendly computer software

OPERATING SYSTEMS

Examine the fundamental purpose of operating systems. Explore functions carried out by operating systems. Carry out installation of an operating system. Carry out configuration of an operating system.

SOFTWARE DEVELOPMENT PROJECT

The aim of this unit is to integrate the skills and knowledge learners have gained throughout the programme to enable them to provide a computer program based solution to a realistic problem.

PROGRAMMING CONCEPTS AND PRACTICE

Make correct use of recognised methodologies for design and documentation. Use a programming environment and its related tools. Implement programs making use of design concepts. Test and document an application.

E-COMMERCE-- BUSINESS ON THE INTERNET

SYSTEMS ANALYSIS AND DESIGN

Learners will learn to apply their knowledge of computer systems and information systems to the design of systems for business use.

SYSTEM JUSTIFICATION

To enable learners to assess combinations of hardware and software that cost-effectively helps to meet the objectives of an organisation.