HIGHER NITEC IN TECHNOLOGY – BUSINESS INFORMATION SYSTEMS

Course Code: HTBIZ

COURSE OBJECTIVE

This course provides students with skills and knowledge to support business information systems on end-user computing devices, network, server and application in a hybrid infrastructure environment with a responsibility in maintaining database management system as well as implementing enterprise solution to ensure smooth operations of all Infocomm hardware and software in the organisation.

COURSE STRUCTURE

S/N	Module Details	Module Code	Module Objectives
C1	**Enterprise Networking** 39 hrs (T) 81 hrs (P) Credits: 7 Prerequisite: Nil	IT4045FP Equivalent Code Nil	On completion of the module, students should be able to apply the fundamentals of computer networking in relation to the OSI model. They should also be able to set up and configure wired and wireless local area network (LAN) including IP address calculation, switching, routing and network segmentation with Virtual LANs (VLANs). In addition, students will be able to set up wide area network (WAN), implement access control lists, troubleshoot common network issues and problems as well as monitor network performance.
C2	**System Administration** 39 hrs (T) 81 hrs (P) Credits: 7 Prerequisite: Nil	IT4043FP Equivalent Code Nil	On completion of the module, students should be able to install and set up server operating systems and perform system administration tasks such as user management, resource sharing, security management, preventive maintenance, and performance tuning on these systems. Students will then proceed to perform value-added features such as implementing server security and high-availability systems.
C3	**Virtualization** 27 hrs (T) 93 hrs (P) Credits: 6 Prerequisite: Nil	IT4044FP Equivalent Code Nil	On completion of the module, students should be able to set up a hypervisor with virtual machines (VMs) and configure clients' access to these VMs. They should also be able to perform backup and recovery of VMs, monitor resource utilisation on the hypervisor, troubleshoot performance and connectivity issues as well as assisting in securing the virtualised infrastructure. They will be introduced to commercially available cloud services and be able to utilise them.
C4	**Database and Applications Development** 27 hrs (T) 93 hrs (P) Credits: 6 Prerequisite: Nil	IT5042FP Equivalent Code Nil	On completion of this module, students should be able to set up, manage and manipulate a relational database, as well as develop software applications that connect to this database.
C5	**Business Enterprise Systems** 39 hrs (T) 81 hrs (P) Credits: 7 Prerequisite: Nil	IT5043FP Equivalent Code Nil	On completion of the module, students should be able to install, configure and administer basic application functionalities and business processes in an enterprise solution.

Abbreviations: T - Theory, P - Practical

CREDITS FOR CERTIFICATION
Total of 33 credits from successful completion of 5 modules.

VENUE

ITE College East

Note:
1) The training schedule of lessons is subject to change.
2) Depending on the demand, not all the modules in the CET *Higher Nitec* in Technology courses will be offered in each intake. Where the modules are offered and there is insufficient enrolment, the classes will be cancelled and a full refund will be given to the affected students.