

Diploma in InfoComm Technology (E-Learning)

Module Outlines

Academic Reading and Writing 2

There has been a need to continually improve the English quality of our students and provide them constant support at their diploma levels. This module is designed for students who are enrolled in diploma programmes to work intensively on their reading and writing skills.

This is a more intensive module that will develop better reading and writing skills as they are the keys to understanding their subjects and effectively engage in class activities. These classes will address a variety of key demands of writing and reading assignments on their courses, focusing on both academic and language skills and the ability to write. The module is taught in a blended learning environment where students will have the opportunity to experiment and learn in both online and face-to-face lessons.

Applied Communication

Applied Communication is a comprehensive module that aims to develop students' skills and capabilities based on theoretical knowledge in the areas of written, oral, interpersonal and group communication. In this module, students will gain an understanding of communication principles and apply them to the business environment.

The key areas for skills development will be writing, listening, reading and speaking. In addition, to prepare them for academic learning, students will also be taught strategies for understanding, composing, summarising and presenting information. Students will also practise and acquire communication skills required at the workplace.

Data Communication and Networking

This module provides an introduction to computer networks, and the basic essential concepts of data communications. Participants are taught the theoretical and practical aspects of data communications and networking. Issues such as the impact of data communication and networking on overall systems design are covered. Subjects include data communication hardware, software, protocols, OSI model, computer networks, data communication services and standards, cellular wireless networks, wireless LANs, network security, and Interworking.

Database Design and Modelling

Software engineering concepts play an important role in software implementation. The unit introduces the methods, techniques, tools and standards that comprise the discipline of software engineering. It includes a traditional plan-based approach that incorporates some novel agile methods.

Discrete Mathematics

The module introduces the techniques and concepts of programming language. Participants are taught problem-solving skills using structured and object-oriented approaches.

Introduction to Computer and Operating Systems

This module teaches participants the fundamentals of computers and Operating Systems (OS). It begins with an introduction to the basic architecture of a computer and its peripherals. It then covers the functions and purpose of an operating system, including memory management, file storage systems and device management.

Information Systems and the Organisations

As business and the IS discipline have changed, so too has the role of the IS professional. Once considered a technical specialist, today the IS professional operates as an internal consultant to all functional areas of the organisation, being knowledgeable about their needs and competent in bringing the power of information systems to bear throughout the organisation. The IS professional views issues through a global perspective that encompasses the entire organisation and the broader industry and business environment in which it operates, including the entire interconnected network of suppliers, customers, competitors, regulatory agencies, and other entities – no matter where they are located.

A comprehensive overview of the enterprise architecture, Internet and web applications, systems design associated with implementing, process integration inherent in and impact these systems have on key business processes. At the end of the module, students should be able to understand the theoretical and practical issues using XHTML related to the acquisition, implementation and application of Enterprise Information Systems within organisations.

The IS professional assumes the critical responsibility of determining the organisation's approach to both overall cost and quality performance and therefore plays an important role in the continued survival of the organisation. This new duality in the role of the IS employee – a professional who exercises a specialist's skills with a generalist's perspective.

Introduction to Programming

The module introduces the techniques and concepts of programming language. Participants are taught problem-solving skills using structured and object-oriented approaches.

Introduction to Software Engineering

Software engineering concepts play an important role in software implementation. The unit introduces the methods, techniques, tools and standards that comprise the discipline of software engineering. It includes a traditional plan-based approach that incorporates some novel agile methods.