NEW ZEALAND INSTITUTES OF TECHNOLOGY AND POLYTECHNIC QUALIFICATIONS IN INFORMATION & COMMUNICATIONS TECHNOLOGY

PRESCRIPTION: OS500 OPERATING SYSTEMS SOFTWARE

AIM OF MODULE: To provide students with a knowledge of

operating systems and an ability to perform basic tasks in both a single-user and a multi-

user operating system.

7 CREDITS:

STUDENT LEARNING HOURS: 70

CONTENT REVISED: 2004

PRESCRIPTION EXPIRY DATE: Nov 2011

Level and Assessment Schedule

	Highest Skill Level			ill -	Suggested Assessment Percentage
TOPICS	R	С	Α	Р	
Introduction to Operating Systems	*				30
2. Single-User Operating System			*		35
3. Multi-User Operating System			*		35
					100

LEARNING OUTCOMES

The student will:

- R 1 Describe the basic components and architecture of an operating system, giving a brief overview of the terminology used.
- A 2 Perform the basic tasks of a single-user operating system, which are necessary to effectively manage a computer system, with such an operating system installed in an office environment.
- A 3 Perform the basic tasks of a multi-user operating system, which are necessary to effectively manage a computer system, with such an operating system installed in a small office environment.

CONTENT

1 INTRODUCTION TO OPERATING SYSTEMS

- Define the term "Operating System" and briefly state the various types available.
 - (eg. embedded, real-time, batch, interactive, multi-user)
- Define the following terms as applied to operating systems: processes, threads, scheduling, kernel, queues, priority.
- Briefly outline the hardware requirements of a typical operating system.
- Briefly describe the key features of an operating system.
 (eg. graphical interface, command line interface, ease of installation, multitasking, plug and play support, networking)

2 SINGLE-USER SYSTEM

- Perform a number of basic tasks.
 - (eg. create, move, copy, and delete folders and files)
- Use a number of the provided features.
 - (eg. applets, notepad, paint, file searches, folders, help)
- Perform backups.

3 MULTI-USER SYSTEM

- Perform a number of basic tasks.
 - (eg. create, move, copy, and delete directories and files)
- Use a number of the provided utilities.
 - (eg. sort, pr, head, tail, grep, man)
- Use several process control and system management commands.
 - (eg. ps, kill, passwd)