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

PRESCRIPTION: PS600 PROBLEM SOLVING

AIM OF MODULE:	To enable students to understand the concepts of problem solving, and to gain experience in solving a wide variety of problems. Students will learn the theory and practice of the necessary skills, and will learn how to become effective problem solvers.
CREDITS:	7
STUDENT LEARNING HOURS:	70
CONTENT REVISED:	Pre 1996
PRESCRIPTION EXPIRY DATE:	Nov 2011

Level and Assessment Schedule

TOPICS	R	C	A	P	Suggested Assessment Percentage
1. Principles of problem solving		*			50
2. Solution of example problems				*	50
					100

LEARNING OUTCOMES

The students will:

1   IDENTIFY AND EXPLAIN:

-    Characteristics of problems
-    Characteristics of people as problem solvers
-    Processes for problem solving
-    Problem solving tools
-    Steps to recognise and overcome blocks
-    Opportunities for improving problem solving ability
-    Opportunities for problem avoidance

1.1   Study example problems.

2   IDENTIFY THE CHARACTERISTICS OF PROBLEMS

2.1   Use suitable problem solving processes.

2.2   Use suitable problem solving tools.

2.3   Recognise and overcome blocks.

2.4   Devise effective solutions.

2.5   Record solutions in a problem log.

2.6   Identify opportunities for improving problem solving ability.

2.7   Identify opportunities for problem avoidance.