

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

PRESCRIPTION: SD320 PROGRAMMING B

AIM OF MODULE:	To enable students to solve simple problems using structured programming techniques.
CREDITS:	5
STUDENT LEARNING HOURS:	50
CONTENT REVISED:	2001
PRESCRIPTION EXPIRY DATE:	November 2013

Level and Assessment Schedule

TOPICS	Highest Skill Level				Suggested Assessment Percentage
	R	C	A	P	
1. Program Design			*		40
2. Programming			*		60
					<hr/> 100 <hr/> <hr/>

LEARNING OUTCOMES

The student will:

- A 1 Use appropriate tools to design, represent and deskcheck logical solutions to simple programming problems.
- A 2 Create appropriately documented programs from given designs.

CONTENT

1 PROGRAM DESIGN

- Given a program problem specification in narrative form, design a logical solution using an appropriate logic tool (eg Pseudocode, Structure diagrams); deskcheck the solution. Problem solutions should require the use of:
 - Input and output
 - Variables and expressions
 - Sequence of steps
 - Simple decisions
 - Simple repetitions (not nested)

2 PROGRAMMING

- Using structured programming techniques, code and appropriately document programs from given designs (e.g. structure diagram, pseudocode) and demonstrate that the finished product meets design specification. Features included should be consistent with those listed in 1 above.