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

PRESCRIPTION: DM700 DATA MODELLING

AIM OF MODULE:	To provide students with a sound understanding of information engineering techniques in modern use.
CREDITS:	7
KNOWLEDGE ASSUMED FROM:	SA600 Systems Analysis
STUDENT LEARNING HOURS:	70
CONTENT REVISED:	2000
PRESCRIPTION EXPIRY DATE:	Nov 2011

Level and Assessment Schedule

TOPICS	R	C	A	P	Suggested Assessment Percentage
		Highest Skill Level			
1. Data Modelling				*	65
2. Function Hierarchies				*	20
3. Data/Logical Access Maps				*	15
					100

The student will:

1   DATA MODELLING

P   1.1   Evaluate a data model in terms of Third Normal Form, redundancy of entity types, redundancy of relationships.

P   1.2   Examine the use of at least one Computer-Aided Software Engineering (CASE) tool.

2   FUNCTION HIERARCHIES

P   2.1   Draw a function hierarchy, showing the sequence, iteration and selection of functions and processes for an organisation.

P   2.2   Produce an organisation's data dependency diagrams, based on the dependency analysis function hierarchy and data model. Review and refine the data model and function hierarchy based on this.

3   DATA ACCESS MAPS

P   3.1   Produce Data Access Maps based on data access analysis.

P   3.2   Use the results of data access analysis to verify the models.

NOTE

➢   Use a CASE tool such as Rational Rose, System Architect, or Visible Analyst.