

**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 2013

**Level and Assessment Schedule**

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