

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

PRESCRIPTION: DB700 DATABASE MANAGEMENT SYSTEMS (DBMS)

AIM OF MODULE:	To give the students an understanding of the issues involved in the management and administration of DBMS.
CREDITS:	7
STUDENT LEARNING HOURS:	70
CONTENT REVISED:	Pre 1996
PRESCRIPTION EXPIRY DATE:	November 2013

Level and Assessment Schedule

TOPICS	Highest Skill Level				Suggested Assessment Percentage
	R	C	A	P	
1. Database Performance Issues				*	20
2. Case Study				*	80
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					100
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The student will:

1 DATABASE PERFORMANCE ISSUES

- C 1.1 Identify factors affecting the performance of a database environment.
- P 1.2 Given a logical and physical design take recovery, restart, audit and security controls information into consideration and modify the schema design accordingly.
- P 1.3 Modify a database design on performance considerations, with particular emphasis on response-critical transactions.

2 CASE STUDY

- P Given comprehensive information and statement of requirements from a realistic business situation:
- design a complete database structure
 - select a technically appropriate and cost-effective DBMS
 - implement the database and load it with sample data
 - examine its performance and tune the database to optimise transaction performance
 - identify and resolve security issues applicable to this database