

Graduate Diploma in Applied Information Technology

With specialisations in: Database Administration, Database Development, Network Engineering, Software Engineering, Web Development

Wintec code:	BI1804	MoE:	WK3809
Level:	7	Credits:	120
Owner:	Centre for Information Technology	Effective Date:	July 2020

These regulations should be read in conjunction with the Institute's Academic Regulations.

1. Admission and Entry
 - 1.1. General Academic Admission
Candidates are required to have a bachelor's degree or an equivalent qualification approved by the Centre Director or designated nominee.
 - 1.2. Special Admission
Domestic applicants aged 20 years or above who have not met the General Admission or entry requirements for a programme but whose skills, education or work experience indicate that they have a reasonable chance of success may be eligible for Special Admission. Special admission will be granted at the discretion of the relevant Centre Director or designated nominee. Such applicants may be required to successfully complete a foundation, bridging or tertiary introductory programme as a condition of entry into higher level programmes.
 - 1.3. English Language Requirements
Candidates who have English as a second language are required to have an International English Language Test System (IELTS) score of 6.0 with no individual band score lower than 5.5; or equivalent; or have completed two years study at a New Zealand secondary school and achieved either NCEA Level 3, or NZ University Entrance, or both.
2. Transfer of Credit
 - 2.1. The standard credit limit for TOC is two thirds ($\frac{2}{3}$) of the qualification.
 - 2.2. Transfer of credit will not normally be granted at Level 7.
 - 2.3. In exceptional circumstances, these Transfer of Credit clauses may be waived, with the approval of the Academic Board or delegated authority.
3. Programme Requirements
 - 3.1. Every candidate for the Graduate Diploma in Applied Information Technology shall to the satisfaction of the Academic Board follow a programme of study for a period of normally not less than two semesters.
 - 3.2. Each candidate's programme of study shall comprise modules as per their chosen specialisation, totalling 120 credits, from the Schedule of Modules in Section 6 of these regulations.

Programme Regulations for:

- 3.3. Candidates completing the Graduate Diploma in Applied Information Technology Database Administration specialisation, are required to complete all compulsory modules in Group A, and a total of 75 credits from Group B.
 - 3.4. Candidates completing the Graduate Diploma in Applied Information Technology Database Development specialisation, are required to complete all compulsory modules in Group A, and a total of 75 credits from Group C.
 - 3.5. Candidates completing the Graduate Diploma in Applied Information Technology Network Engineering specialisation, are required to complete all compulsory modules in Group A, and a total of 75 credits from Group D.
 - 3.6. Candidates completing the Graduate Diploma in Applied Information Technology Software Engineering specialisation, are required to complete all compulsory modules in Group A, and a total of 75 credits from Group E.
 - 3.7. Candidates completing the Graduate Diploma in Applied Information Technology Web Development specialisation, are required to complete all compulsory modules in Group A, and a total of 75 credits from Group F.
4. Completion of the Programme
 - 4.1. A full-time candidate will normally complete the Graduate Diploma in Applied Information Technology within two years, unless an extension is granted by special permission of the Centre Director or delegated nominee.
 - 4.2. A part-time candidate will normally complete the Graduate Diploma in Applied Information Technology within four years, unless an extension is granted by special permission of the Centre Director or delegated nominee.
 5. Award of the Qualification
 - 5.1. Candidates who successfully complete the requirements in clause 3 will receive the award of the Graduate Diploma in Applied Information Technology with their respective specialisation.
 6. Schedule of Modules

Notes:

 - (i) *Students who have an IT degree that includes passes in papers that cover business analysis, database development, programming and systems analysis are exempt from ITPD711. If a student is exempt from ITPD711 they will be required to replace this with another module from the electives available in their chosen specialisation. If they also have significant work-experience in their area of specialisation they may be able to undertake an appropriate project from Group G (below) in place of a Level 7 module (other than INFO701).*
 - (ii) *Most GDAppIT modules are modules in the BAppIT. The following table shows pre-requisites and co-requisites as they apply in the BAppIT. Where pre-requisites/co-requisites refer to modules outside of the GDAppIT, students who do have an IT degree that includes passes in papers that cover business analysis, database development, programming and systems analysis are deemed to meet the pre-requisite/co-requisite. Where pre-requisites/co-requisites refer to modules outside of the GDAppIT, students who do not have an IT degree that includes passes in papers that cover business analysis, database development, programming and systems analysis are deemed to meet the pre-requisite/co-requisite if they have passed ITPD711.*

Programme Regulations for:

- (iii) *The absence of an entry in the pre/co-requisite columns means there are no pre/co-requisites for that module. Pre-requisites and co-requisites may be waived at the discretion of the relevant Head of School/Centre Director or designated nominee.*

Group A – Compulsory modules for all specialisations

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
ITPD711	Information Systems Essentials	7	15		
COMP601	Object Oriented Programming	6	15	COMP502	
INFO701	Project Management	7	15	INFO502	

Group B – Elective modules for the Database Administration specialisation

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
INFO601	Database Modelling and SQL	6	15	INFO503	
INFO604	Database Systems	6	15	INFO503	INFO601
BIZM701	Business Essentials for IT Professionals	7	15	INFO602	
COMP709	Mobile Applications Development	7	15	COMP601 and COMP605 and MATH602	
INFO704	Data-Warehousing and Business Intelligence	7	15	INFO601	
INFO707	Cloud Server Databases	7	15	INFO601 and INFO604	

Group C – Elective modules for the Database Development specialisation

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
COMP606	Web Programming	6	15	COMP602	
INFO601	Database Modelling and SQL	6	15	INFO503	
BIZM701	Business Essentials for IT Professionals	7	15	INFO602	
COMP709	Mobile Applications Development	7	15	COMP601 and COMP605 and MATH602	
INFO704	Data-Warehousing and Business Intelligence	7	15		
INFO706	Database Front-End Applications	7	15	INFO601 and INFO604	

Programme Regulations for:

Group D – Elective modules for the Network Engineering specialisation

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
COMP608	Introduction to Networks	6	15		
INFO603	Systems Administration	6	15		
COMP701	Advanced Networking	7	15	INFO603	
COMP704	Network Security	7	15	COMP604	
COMP712	Routing and Switching Essentials	7	15	COMP608	
INFO702	Cyber Security	7	15	COMP504 and COMP601	
COMP716	Virtualisation Essentials	7	15	COMP504 INFO603	

Group E – Elective modules for the Software Engineering specialisation

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
COMP605	Data Structures and Algorithms	6	15	COMP601 and MATH601	
MATH602	Mathematics for Programming	6	15	MATH601	
COMP706	Game Development	7	15	COMP601 and COMP605 and MATH602	
COMP707	Principles of Software Testing	7	15	COMP605	
COMP709	Mobile Applications Development	7	15	COMP601 and COMP605 and MATH602	
INFO703	Big Data and Analytics	7	15	COMP605 and MATH602	
INFO702	Cyber Security	7	15	COMP504 and COMP601	

Group F – Elective modules for the Web Development specialisation

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
COMP606	Web Programming	6	15	COMP602	
INFO605	Human Computer Interaction	6	15	COMP602	
COMP709	Mobile Applications Development	7	15	COMP601 and COMP605 and MATH602	
COMP710	Web Applications Development	7	15	COMP602 and COMP606	
INFO708	Data Visualisation	7	15	COMP606	

Programme Regulations for:

COMP717	Advanced Web Technologies	7	15	COMP606	COMP710
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