

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:	January 2022

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.
2. Transfer of Credit
 - 2.1. The standard credit limit for TOC is two thirds (⅔) 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 105 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 105 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 105 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 105 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 105 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 that have an IT degree that includes proficiency in the basics of programming, relational databases and data modelling or that have experience in those fields can be exempt ITPD711 at the discretion of the programme coordinator or team manager. Students are then expected to select another 15 credit module in the chosen specialisation.
 - (ii) 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		

Group B – Elective modules for the Database Administration specialisation

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
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Programme Regulations for:

COMP601	Object Oriented Programming	6	15	COMP502	
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	
INFO704	Data-Warehousing and Business Intelligence	7	15	INFO601	
INFO707	Cloud Server Databases	7	15	INFO601 and INFO604	
INFO706	Database Front-End Applications	7	15	INFO601 and INFO604	

Group C – Elective modules for the Database Development specialisation

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
COMP601	Object Oriented Programming	6	15	COMP502	
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	
INFO704	Data-Warehousing and Business Intelligence	7	15		
INFO706	Database Front-End Applications	7	15	INFO601 and INFO604	
INFO703	Big Data and Analytics	7	15	COMP605 and MATH601	

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	

Programme Regulations for:

INFO702	Cyber Security	7	15	COMP504 or INFO603 or COMP601	
COMP716	Virtualisation Essentials	7	15	COMP608 INFO603	
BIZM701	Business Essentials for IT Professionals	7	15	INFO602	
COMP615	Data Centre Infrastructure	6	15		
COMP702	Scaling Networks	7	15	COMP608 and COMP712	

Group E – Elective modules for the Software Engineering specialisation

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
COMP601	Object Oriented Programming	6	15	COMP502	
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	
INFO703	Big Data and Analytics	7	15	COMP605 and MATH602	
INFO702	Cyber Security	7	15	COMP504 or INFO603 or COMP601	
COMP609	Application Development	6	15	COMP601 and MATH601	
BIZM701	Business Essentials for IT Professionals	7	15	INFO602	
COMP717	Advanced Web Technologies	7	15	COMP606	COMP710

Group F – Elective modules for the Web Development specialisation

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
COMP601	Object Oriented Programming	6	15	COMP502	
COMP606	Web Programming	6	15	COMP602	
INFO605	Human Computer Interaction	6	15	COMP602	

Programme Regulations for:

COMP709	Mobile Applications Development	7	15	COMP601	
COMP710	Web Applications Development	7	15	COMP602 and COMP606	
INFO708	Data Visualisation	7	15	COMP606	
COMP717	Advanced Web Technologies	7	15	COMP606	COMP710
BIZM701	Business Essentials for IT Professionals	7	15	INFO602	
COMP616	Front-End Web Development	6	15		