



Colleges of Applied Sciences

Information Technology Program

Degree Plans:

Information Technology (IT)

Bachelor of Science

Code Equivalence: 2013/14 into 2017/18

Majors:

- 1. Computer Networks (NW)*
- 2. Information Technology Security (SY)*
- 3. Software Applications Development (SW)*
- 4. Data Management (DM)*



Bachelor of Science (IT) Degree Plan Major: Computer Networks (NW)

2014 Course Code	IT Course Title	2008 Equivalent
MTDR1102	Mathematics for Information Technology	MATH1005
ITDR 1101	Introduction to IT	INFT1101
ITDR 1102	Introduction to Web Development	SFDV1000
ITDR 1103	Introduction to Discrete Mathematics	MATH1022
ITDR 1104	Programming Fundamentals	SFDV1003
ITDR 1105	Web Development	SFDV2001
ITDR 2101	Principles of Information Systems	SFDV2002
ITDR 2102	Computer Organisation	SFDV2005
ITDR 2103	Discrete Mathematics	MATH3001
ITDR 2104	Programming	SFDV2103
ITDR 2105	Data Structures (1)	SFDV3001
ITDR 2106	Introduction to Databases	SFDV3002
ITDR 2107	Data Communications and Computer networks	NETW2101
ITDR 2108	Introduction to Security	NETW3000
ITDR 3101	Systems Analysis and Design	SFDV3003
ITDR 3102	Operating Systems	NETW3005
ITDR 3103	Data Structures (2)	SFDV3004
ITDR 4100	Project Management	SFDV4002
ITIN 3101	Internship	None
Computer Networks Major		
ITGP 4101	Final Year Project 1	None
ITGP 4102	Final Year Project 2	None
ITNW 3101	Introduction to Routing and Switching	NETW3001
ITNW 3104	Network Technology	NETW4001
ITNW 3105	Network Management	NETW4002
ITNW 4103	Internetworking	NETW4003
ITNW 4104	Wireless Networking	NETW4004
ITNW 4109	Innovations in Networks and Security	NETW4009
IT Electives for Networks Major		
ITNW 4111	Fibre Optics	None
ITNW 4112	Adv. Routing and Switching	None
ITNW 4113	Network Optimisation	None
ITNW 4114	Adv. Operating Systems	NETW3006
ITSY 3105	Network Security A	NETW4006
ITNW 4115	Network / Security programming	None



Bachelor of Science (IT) Degree Major : Information Technology Security (SY)

2014 Course Code	IT Course Title	2008 Equivalent
ITGP 4101	Final Year Project 1	None
ITGP 4102	Final Year Project 2	None
ITNW 3101	Introduction to Routing and Switching	NETW3001
ITSY 3104	Computer Security A	NETW4005
ITSY 3105	Network Security A	NETW4006
ITSY 4104	Computer Security B	NETW4007
ITSY 4105	Network Security B	NETW4008
ITNW 4109	Innovations in Networks and Security	NETW4009
IT Electives for Security Major		
ITSY4111	Cyber Security	None
ITSY4112	IT Forensics	None
ITNW 4115	Network / Security programming	None
ITSY4114	Ethical Hacking and Network Defence	None
ITNW3104	Network Technology	NETW4001
ITSY 4113	Cryptography	None

Bachelor of Science (IT) Degree Plan Major: Software Applications Development (SW)

2014 Course Code	IT Course Title	2008 Equivalent
ITGP 4101	Final Year Project 1	SFDV4003
ITGP 4102	Final Year Project 2	SFDV4004
ITSW 3101	Applications Software Development	SFDV2104
ITSW 3104	Concurrent Programming	SFDV3006
ITSW 4103	Object Oriented Programming and User-interfaces	SFDV4001
ITSW 4104	Mobile Applications Development	None
ITSW 4109	Innovations in Software Development	SFDV4009
ITDM 3105	Advanced Web Development	SFDV3011
IT Electives for Software Major		
ITSW 4111	Computer Graphics	SFDV3012
ITSW 4112	Human Computer Interaction	None
ITSW 4113	Games Architecture & Design	None
ITSW 4114	Software Design Patterns	None
ITDM 4116	Software Trouble Shooting	None
ITDM 4115	Web Services	None



Bachelor of Science (IT) Degree Plan *Major : Data Management (DM)*

2014 Course Code	IT Course Title	2008 Equivalent
ITGP 4101	Final Year Project 1	SFDV4003
ITGP 4102	Final Year Project 2	SFDV4004
ITSW 3101	Application Software Development	SFDV2104
ITDM 3104	Advanced Database Design	SFDV3007
ITDM 3105	Advanced Web Development	SFDV3011
ITDM 4102	Distributed Data Management	SFDV4005
ITSW 4109	Innovations in Software Development	SFDV4009
ITDM 4103	Data Mining	None
IT Electives for Data Management Major		
ITDM 4111	Advanced Data Modelling	SFDV3012
ITDM 4112	Information Retrieval	None
ITDM 4113	Database Optimisation	None
ITSW 4112	Human Computer Interaction	None
ITDM 4114	Spatial Information Systems	None
ITDM 4115	Web Services	None