Course Structure

Diploma in Information Technology – NQF 6 (360 credits)

1st Year

Core

		NQF	Credits	Pre-requisites
Innovation and Leadership 161	INL161	5	10	
End-User Computing 161	EUC161	5	4	
Business Communication 161	BUC161	5	4	
Business Management & Entrepreneurship 161	BME161	5	8	EUC161; BUC161
Problem Solving 161	PRS161	5	8	
Programming Principles 161	PRP161	5	8	PRS161
Programming 161	PRG161	5	12	PRP161; MAT161
Web Programming 161	WPR161	5	12	EUC161
Database Concepts 161	DBC161	5	8	
Database Functionality 161	DBF161	5	8	DBC161
Applied Mathematics 161	MAT161	5	10	
Statistics 161	STA161	5	4	EUC161
Computer Architecture 161	COA161	5	8	
Network Development 161	NWD161	5	8	COA161
Internet of Things 161	IOT161	5	8	NWD161
			120	

Course Structure

Diploma in Information Technology – NQF 6 (360 credits)

2nd Year – 1st Quarter

		NQF	Credits	Pre-requisites
Core: All streams				
Innovation and Leadership 261	INL261	6	10	INL161, No more than 20 credits outstanding (1st year modules).
Enterprise Systems 261	ERP261	6	4	
IT Law & Ethics 261	ILE261	6	6	
Project Management 261	PMM261	6	7	EUC161
Database Development 261	DBD261	6	7	DBF161
			34	

2nd Year – 2nd and 3rd Quarter

		NQF	Credits	Pre-requisites
Fundamentals: Infrastructure Stream				
Internet Of Things 261	IOT261	6	8	IOT161
Security 261	SEC261	6	8	NWD161; ITE261
Cloud-Native Architecture 261	CNA261	6	8	IOT261
Operating Systems 261	OPS261	6	16	SEC261
Operating Systems 262	OPS262	6	8	OPS261
Operating Systems 263	OPS263	6	8	OPS252
			56	

		NQF	Credits	Pre-requisites
Fundamentals: Software Development Stream				
Programming 261	PRG261	6	12	PRG161
Programming 262	PRG262	6	8	PRG261; DBD261
Software Testing 261	SWT261	6	4	PRG261
Software Analysis & Design 261	SWA261	6	8	PRP161
Web Programming 261	WPR261	6	12	WPR161, PRP161
			44	

Course Structure

Diploma in Information Technology – NQF 6 (360 credits)

2nd Year – 2nd and 3rd Quarter

		NQF	Credits	Pre-requisites
Elective: <u>Software Development Stream</u> *(Choose one of)*				
Software Testing 262	SWT262	6	**12**	SWT261
User Experience & Design 261	UXD261	6	**12**	PRG261
			12	

	90

2nd Year – 4th Quarter; 3rd Year – 1st and 2nd Quarter

Fundamentals (Choice any 2)

Fundamentals: <u>Software Development / Infrastructure Stream - Database</u>

		NQF	Credits	Pre-requisites
Database Development 361	DBD361	6	**13**	DBD261
Database Reporting 361	DBR361	6	**6**	DBD361
Database Cloud 361	DBC361	6	**4**	DBD361
Database Administration 361	DBA361	6	**6**	DBD361
Distributed Database 361	DDB361	6	**6**	DBD361
			35	

Fundamentals: <u>Software Development - Programming</u>

		NQF	Credits	Pre-requisites
Scripting & Syntax 361	SSX361	6	**16**	PRG262
Programming 361	PRG361	6	**11**	PRG262
Software Analysis & Design 361	SWA361	6	**8**	SWA261
			35	

Fundamentals: <u>Software Development – Web Development</u>

		NQF	Credits	Pre-requisites
Web Front-End Scripting 361	WFS361	6	25	WPR261
Web Servers 361	WSE361	6	4	WFS361
Web Database 361	WDB361	6	6	WFS361
			35	

Course Structure

Diploma in Information Technology – NQF 6 (360 credits)
2nd Year – 4th Quarter; 3rd Year – 1st and 2nd Quarter

		NQF	Credits	Pre-requisites
Fundamentals: Infrastructure Stream - Security				
Penetration Testing 361	PET361	6	**16**	SEC261
Ethical Hacking 361	EHA361	6	**19**	PET361
			35	
Fundamentals: Infrastructure Stream - Cloud				
Cloud-Native Architecture 361	CNA361	6	**35**	CNA261
			35	
Fundamentals: Infrastructure Stream - Networking				
Operating Systems 361	OPS361	6	**10**	OPS262
Network Development 361	NWD361	6	**15**	OPS262
			25	
Elective: Infrastructure Stream – Networking *(Choose one of)*				
DevOps 361	DOP361	6	**10**	NWD361
Mainframe 361	MFR361	6	**10**	OPS361
			10	

3rd Year – 1st and 2nd Quarter

		NQF	Credits	Pre-requisites
Core				
Project 361	PRJ361	6	**10**	PMM261, INL261, No more than 20 credits outstanding (1st & 2nd year modules).
			10	
			45	

Course Structure

Diploma in Information Technology – NQF 6 (360 credits)

3rd Year – 3rd and 4th Quarter

		NQF	Credits	Pre-requisites
Elective: All Stream – Networking *(Choose one of)*				
Applied Information Technology 361	AIT361	6	60	PRJ361, No more than 20 credits outstanding.
Work-Simulation Project 361	WSP361	6	60	PRJ361, No more than 20 credits outstanding.
			60	
			360	