

Course Structure

Diploma in Information Technology – NQF 6 (360 credits)

1st Year

		NQF	Credits	Pre-Requisites
Core				
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	
Programming Preliminaries 161	PRL161	5	16	
Programming 161	PRG161	5	12	PRL161
Web Programming 161	WPR161	5	12	
Database Concepts 161	DBC161	5	8	
Database Functionality 161	DBF161	5	8	
Applied Mathematics 161	MAT161	5	10	DBC161
Statistics 161	STA161	5	4	
Computer Architecture 161	COA161	5	8	
Network Development 161	NWD161	5	8	
Internet of Things 161	IOT161	5	8	
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2nd Year

		NQF	Credits	Pre-Requisites
Core				
Innovation and Leadership 261	INL261	6	10	INI161
Enterprise Systems 261	ERP261	6	4	
IT Law & Ethics 261	ILE261	6	6	
Project Management 261	PMM261	6	7	
Database Development 261	DBD261	6	7	DBF161
Database Development 262	DBD262	6	16	DBD261
Database Reporting 261	DBR261	6	7	DBD262
Database Administration 261	DBA261	6	7	DBD262

Fundamentals: (Choose 1)

Fundamental: Infrastructure Stream				
Internet Of Things 261	IOT261	6	8	IOT161
Security 261	SEC261	6	8	NWD161; ILE261
Cloud-Native Architecture 261	CNA261	6	8	
Operating Systems 261	OPS261	6	16	
Operating Systems 262	OPS262	6	8	OPS261
Operating Systems 263	OPS263	6	8	OPS262

Fundamental: 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	
Web Programming 261	WPR261	6	12	WPR161

Elective - Software Development Stream: (Choose 1)

Elective - Software Development Stream				
Software Testing 262	SWT262	6	12	SWT261
User Experience & Design 261	UXD261	6	12	PRG261
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3rd Year

		NQF	Credits	Pre-Requisites
Core				
Project 361	PRJ361	6	10	PMM261, INL261
Innovation & Leadership 361	INL361	6	10	INL261
Core: (Choose 1)				
Applied Information Technology 361	AIT361	6	60	Less than 18 credits outstanding.
Work-Simulation Project 361	WSP361	6	60	Less than 18 credits outstanding.

Fundamentals: (Choose 1)

Fundamental: Software Development - Programming				
Scripting & Syntax 361	SSX361	6	16	PRG262
Programming 361	PRG361	6	11	PRG262
Software Analysis & Design 361	SWA361	6	8	SWA261

Fundamental: Software Development – Web Development				
Web Front-End Scripting 361	WFS361	6	25	WPR261, PRG262
Web Servers 361	WSE361	6	4	WFS361
Web Database 361	WDB361	6	6	WFS361

Fundamental: Infrastructure Stream - Security				
Penetration Testing 361	PET361	6	16	SEC261
Ethical Hacking 361	EHA361	6	19	SEC261

Fundamental: Infrastructure Stream – Cloud				
Cloud-Native Architecture 361	CNA361	6	35	CNA261

Fundamental: Infrastructure Stream – Networking				
Operating Systems 361	OPS361	6	10	OPS263
Network Development 361	NWD361	6	15	OPS262
Elective: Infrastructure Stream – Networking (Choose one of)				
DevOps 361	DOP361	6	10	CNA261
Mainframe 361	MFR361	6	10	OPS263

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