

Course Structure

Bachelor of Computing – NQF 8 (510 credits)

1st Year - Academic

		NQF	Credits	Pre-requisites
Core				
	Academic Writing 181 ACW181	5	4	
	Computer Architecture 181 COA181	5	4	
	Database Development 181 DBD181	5	12	
	Information Systems 181 INF181	5	12	
	Innovation and Leadership 101 INL101	5	5	
	Innovation and Leadership 102 INL102	5	5	
	Linear Programming 181 LPR181	5	11	
	Mathematics 181 MAT181	5	11	
	Networking Development 181 NWD181	5	8	
	Programming 181 PRG181	5	16	
	Programming 182 PRG182	5	9	PRG181
	Statistics 181 STA181	5	4	
	Web Programming 181 WPR181	5	12	
Elective (Choose one of)				
	Business Management 181 BUM181	5	7	
	Entrepreneurship 181 ENT181	5	7	
			120	

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2nd Year - Academic

		NQF	Credits	Pre-requisites
Core				
Database Development 281	DBD281	6	15	DBD181
Information Systems 281	INF281	6	12	INF181
Innovation and Leadership 201	INL201	6	5	INL102
Innovation and Leadership 202	INL202	6	5	INL102
Linear Programming 281	LPR281	6	11	LPR181
Mathematics 281	MAT281	6	11	MAT181
Programming 281	PRG281	6	13	PRG182
Programming 282	PRG282	6	8	DBD281,PRG281
Project Management 281	PMM281	6	7	
Statistics 281	STA281	6	4	STA181
Web Programming 281	WPR281	6	12	PRG181,WPR181
Fundamentals: Software Engineering Stream				
Software Analysis & Design 281	SAD281	7	9	PMM281
Fundamentals: Data Science Stream				
Data Warehousing 281	DWH281	7	9	DBD281
Elective (Choose one of)				
Internet Of Things 281	IOT281	6	8	PRG181,WPR281
Software Testing 281	SWT281	6	8	PRG282
			120	

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3rd Year – Academic

		NQF	Credits	Pre-requisites
Core				
	Research Methods 381 RSH381	7	7	STA281
	Database Development 381 DBD381	7	7	DBD281
	Innovation and Leadership 381 INL381	7	5	INL201, INL202
	Linear Programming 381 LPR381	7	11	MAT281, LPR281
	Machine Learning 381 MLG381	7	7	STA281
	Project 381 PRJ381	8	17	PMM281
	Project Management 381 PMM381	7	7	
Fundamentals: Software Engineering Stream				
	Programming 381 PRG381	7	9	PRG282
	Software Engineering 381 SEN381	8	30	PMM381, PRG282, SAD281
	Web Programming 381 WPR381	7	9	PRG282, WPR281
Fundamentals: Data Science Stream				
	Data Science 381 DTS381	8	30	DWH281, MLG381
	Database Administration 381 DBA381	7	9	DBD281
	Statistics 381 STA381	7	9	STA281
Elective (Choose one of)				
	Innovation Management 381 INM381	7	11	
	Machine Learning 382 MLG382	7	11	PRG282, MLG381
	User Experience Design 381 UAX381	7	11	PRG282, WPR281
			120	

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4th Year – Experiential Learning

		NQF	Credits
Applied Information Technology 481	AIT481	7	60
Applied Information Technology 482	AIT482	8	60
Dissertation 481	DST481	8	30
			150