

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 (<i>Choose one of</i>)				
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