DEGREE OF BACHELOR OF SCIENCE IN COMPUTING SCIENCE – MATHEMATICS (04GGMC70)

DESIGNATED DEGREE OF BACHELOR OF SCIENCE IN COMPUTING SCIENCE – MATHEMATICS (04GGMC89)

Students must also comply with the University General Regulations and the Supplementary Regulations for the Degree of Bachelor of Science

All the courses listed below are prescribed for this degree

PROGRAMME YEAR 1 – 120 Credit Points

First Half-Session			Second Half-Session		
Course Code	**Course Title**	**Credit Points**	**Course Code**	**Course Title**	**Credit Points**
PD 1001	Professional Skills Part 1	0			
CS 1022	Computer Programming & Principles	15	CS 1520	Computer Architecture	15
MA 1005	Calculus I	15	MA 1508	Calculus II	15
MA 1006	Algebra	15	MA 1511	Set Theory	15
Plus at least one of the three courses listed below:					
CS 1024	Grand Challenges of Computing and Artificial Intelligence	15	CS 1522	Web Technology	15
CS 1025	Web Application Development	15	CS 1527	Object Oriented Programming	15
Plus further credit points to give an overall total of 120 credit points.					

PROGRAMME YEAR 2 – 120 Credit Points

First Half-Session			Second Half-Session		
Course Code	**Course Title**	**Credit Points**	**Course Code**	**Course Title**	**Credit Points**
CS 2013	Mathematics for Computing Science	15	CS 2510	Modern Programming Languages	15
CS 2015	Data Management	15	CS 2521	Algorithmic Problem Solving	15
MA 2008	Linear Algebra I	15			
MA 2009	Analysis I	15	MA 2508	Linear Algebra II	15
			MA 2509	Analysis II	15

PROGRAMME YEAR 3 – 120 Credit Points

First Half-Session			Second Half-Session		
Course Code	**Course Title**	**Credit Points**	**Course Code**	**Course Title**	**Credit Points**
CS 3028	Principles of Software Engineering	15	CS 3528	Software Engineering and Professional Practice	15
MX 3020	Group Theory	15	MX 3535	Analysis IV	15
MX 3035	Analysis III	15	***EITHER*** MX 3531	Rings and Fields	15
			OR MX3536	Differential Equations	15
Plus one of the courses listed below:			Plus one of the courses listed below:		
CS 3025	Knowledge-Based Systems	15	CS 3518	Languages and Computability	15
CS 3026	Operating Systems	15	CS 3524	Distributed Systems and Security	15
			CS 3525	Enterprise Computing and Business	15

PROGRAMME YEAR 4 – 120 Credit Points

First Half-Session			Second Half-Session		
Course Code	**Course Title**	**Credit points**	**Course Code**	**Course Title**	**Credit points**
MX 4082	Galois Theory	15	CS 4525	Joint Honours Computing Project	30
Plus further credit points from level 4 courses in MX4 courses and CS4 courses to gain a total of 60 credits in each discipline. **A graduating curriculum for the Honours degree must include 90 credit points from Level 4 courses.**					

PLEASE SEE OVER →

Notes	
1.	Designated Programme: See Supplementary Regulation 1 A minimum curriculum at Level 3 must include at least 90 credit points from the courses listed under the Honours programme, of which at least 45 credit points must be from Computing Science and at least 45 credit points from Mathematical Sciences.
2.	Candidates seeking entry to the Junior Honours programme must have accumulated, by award or recognition, or been exempted from, at least 240 credit points at levels 1 and 2, including those compulsory courses required to enter programme year 3.