AY2024-25 **Curriculum for Bachelor of Computing (Computer Science)**

Accelerated Bachelor Programme

	SUMMARY OF ACADEMIC UNIT REQUIREMENT						
			ICC				
Year of Study	Core	MPE	Common -	Foundational -	BDE	Total AU	
			Core	Core			
1	25	0	9	3	3	37	
2	18	6	8	0	6	44	
3	8	9	0	12	6	32	
4	4	12	0	0	6	22	
Total	55	27	17	15	21	135	

Recommended Course Schedule

YEAR 1 SEMESTER 1						
Course Code	Course Title	Туре	AU	Pre-requisite		
SC1003	Introduction to Computational Thinking & Programming	F-Core	3	Nil		
SC1004	Linear Algebra for Computing	Core	4	SC1003 (co-requisite)		
SC1005	Digital Logic	Core	3	Nil		
MH1812	Discrete Mathematics	Core	3	Nil		
CC0003	Ethics & Civics in a Multicultural World	C-Core	2	Nil		
CC0005	Healthy Living & Wellbeing	C-Core	3	Nil		
HW0001	Introduction to Academic Communication	-	-	For student failed QET		
HW0002	Calculus	-	-	For student not done Calculus		
			18			

	YEAR 1 SEMESTER 2						
Course Code	Course Title	Туре	AU	Pre-requisite			
SC1006	Computer Organisation & Architecture	Core	3	SC1005 (co-requisite)			
SC1007	Data Structures & Algorithms	Core	3	SC1003			
SC1008	C and C++ Programming	Core	3	SC1003			
SC2000	Probability & Statistics for Computing	Core	3	Nil			
SC2002	Object Oriented Design & Programming	Core	3	SC1003 OR SC1007			
CC0001	Inquiry & Communication in an Interdisciplinary World	C-Core	2	Nil			
CC0002	Navigating the Digital World	C-Core	2	Nil			
			19				
	Year 1 Total AU 37						

	YEAR 2 SEMESTER 1					
Course Code	Course Title	Туре	AU	Pre-requisite		
SC2001	Algorithm Design & Analysis	Core	3	SC1007 & MH1812		
SC2005	Operating Systems	Core	3	SC1006 & SC1007		
SC2203	Automata. Computability and Complexity	Core	3	SC2001 (co-requisite)		
SC2006	Software Engineering	Core	3	SC2002 (co-requisite)		
SC2008	Computer Network	Core	3	SC2000 & SC1004		
CC0007	Science & Technology for Humanity	C-Core	3	Nil		
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule		
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule		
			24			

	YEAR 2 SEMESTER 2						
Course Code	Course Title	Туре	AU	Pre-requisite			
SC2207	Introduction to Databases	Core	3	SC2001 (co-requisite)			
CC0006	Sustainability: Society, Economy & Environment	C-Core	3	Nil			
ML0004	Career & Innovative Enterprise for the Future World	C-Core	2	Nil			
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing			
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing			
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule			
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule			
			20				
	Year 2 Total AU 44						

	YEAR 3 SEMESTER 1					
Course Code	Course Title	Туре	AU	Pre-requisite		
SC3079	Professional Internship	F-Core	10	Year 3 Standing		
			10			

YEAR 3 SEMESTER 2						
Course Code	Course Title	Туре	AU	Pre-requisite		
SC2079	Multidisciplinary Design Project	Core	4	Year 3 Standing		
HW0288	Engineering Communication	F-Core	2	CC0001 & Year 3 standing		
SC4079	Final Year Project (Part 1)	Core	4	Year 4 Standing		
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing		
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing		
SC3xxx/SC4xxx	SC3xxx/SC4xxx Major Prescribe Elective (Choose within SC3xxx/SC4xxx)		3	Year 3 Standing		
	Broadening and Deepening Elective		3	Refer to Class Schedule		
			22			
Year 3 Total All 32						

Year 3 Total AU 32

YEAR 4 SEMESTER 1						
Course Code	Course Title	Туре	AU	Pre-requisite		
SC4079	Final Year Project (Part 2)	Core	4	Year 4 Standing		
SC4xxx	Major Prescribe Elective (Choose within SC4xxx)	MPE	3	Year 3 Standing		
SC4xxx	Major Prescribe Elective (Choose within SC4xxx)	MPE	3	Year 3 Standing		
SC4xxx	Major Prescribe Elective (Choose within SC4xxx)	MPE	3	Year 3 Standing		
SC4xxx	Major Prescribe Elective (Choose within SC4xxx)	MPE	3	Year 3 Standing		
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule		
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule		
			22			

YEAR 4 SEMESTER 2							
Course Code	Course Title	Туре	AU	Pre-requisite			
			0				
Year 4 Total AU							

MPE Structure of Computer Science (U24 and after)									
Course Code	Туре	AU	Remarks						
SC3xxx/SC4xxx	MPE-1	3	Any MPE						
SC3xxx/SC4xxx	MPE-2	3	Any MPE						
SC3xxx/SC4xxx	MPE-3	3	Any MPE						
SC3xxx/SC4xxx	MPE-4	3	Any MPE						
SC3xxx/SC4xxx	MPE-5	3	Any MPE						
SC4xxx	MPE-6	3	MPE (Choose within SC4xxx)						
SC4xxx	MPE-7	3	MPE (Choose within SC4xxx)						
SC4xxx	MPE-8	3	MPE (Choose within SC4xxx)						
SC4xxx	MPE-9	3	MPE (Choose within SC4xxx)						
Total 27									
Please refe	Please refer the CSC MPE Courses and Specialization on CCDS website.								