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

	SUMMARY OF ACADEMIC UNIT REQUIREMENT						
			ICC				
Year of Study	Core	MPE	Common - Core	Foundational - Core	BDE	Total AU	
1	25	0	9	3	0	37	
2	18	6	8	0	3	35	
3	4	6	0	12	6	28	
4	0	23	0	0	12	35	
Total	47	35	17	15	21	135	

Recommended Course Schedule

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	U-Core	2	Nil		
CC0005	Healthy Living & Wellbeing	U-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	U-Core	2	Nil		
CC0002	Navigating the Digital World	U-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	U-Core	3	Nil		
			18			

	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	U-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		
			17			

	YEAR 3 SEMESTER 1					
Course Code	Course Title	Туре	AU	Pre-requisite		
SC3099	Capstone Project	Core	4	Year 3 Standing		
HW0288	Engineering Communication	F-Core	2	CC0001 & Year 3 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		
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule		
	Broadening and Deepening Elective		3	Refer to Class Schedule		
			18			

YEAR 3 SEMESTER 2				
Course Code	Course Title	Туре	AU	Pre-requisite
SC3920	Professional Internship (Graded)	F-Core	10	Year 3 Standing
			10	

Year 3	Total AU	28	3

YEAR 4 SEMESTER 1					
Course Code	Course Title	Туре	AU	Pre-requisite	
SC4079	Final Year Project (Part 1)	MPE	4	Year 4 Standing	
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/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	
			19		

	YEAR 4 SEMESTER 2					
Course Code	Course Title	Туре	AU	Pre-requisite		
SC4079	Final Year Project (Part 2)	MPE	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		
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule		
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule		
			16			

Year 4 Total AU 35

Note:

- 1. Students are required to complete 9 Major Prescribed Elective (MPE) courses (SC3xxx or SC4xxx), including at least 4 courses at the
- 2. Students may choose to fulfill this requirement by either completing a Final Year Project (FYP) or by taking 3 additional MPE
- 3. To be eligible for **Highest Distinction**, students **must complete a Final Year Project**.

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				
Pleas	se refer the CSC MPE Cou	irses and Specia	alization on CCDS website.			