

AY2024-2025

Curriculum for Bachelor of Computing (Computer Science) & Bachelor of Business (BA Specialization)

DOUBLE DEGREE PROGRAMME

SUMMARY OF ACADEMIC UNIT REQUIREMENT							
Year of Study	Core		MPE		ICC		Total AU
	CSC	BUS	CSC	BUS	C-Core	F-Core	
1	16	12	0	0	9	8	45
2	15	15	0	0	8	5	43
3	16	6	12	3	0	0	37
4	0	6	23/24	6	0	0	35/36
Total	47	39	35/36	9	17	13	161/162

Recommended Course Schedule

YEAR 1 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-requisite
SC1003	Introduction to Computational Thinking & Programming	F-Core	3	Nil
SC1004	Linear Algebra for Computing	Core	4	SC1003 (co-requisite)
AB1202	Statistics & Analysis	Core	3	Nil
AB1301	Business Law	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	Type	AU	Pre-requisite
SC1005	Digital Logic	Core	3	Nil
SC1007	Data Structures & Algorithms	Core	3	SC1003
SC1008	C and C++ Programming	Core	3	SC1003
MH1812	Discrete Mathematics	Core	3	Nil
AD1102	Financial Accounting	Core	3	Nil
AB1601	Organisational Behaviour and Design	Core	3	Nil
CC0001	Inquiry & Communication in an Interdisciplinary World	U-Core	2	Nil
CC0002	Navigating the Digital World	U-Core	2	Nil
			22	

YEAR 1 SPECIAL SEMESTER				
Course Code	Course Title	Type	AU	Pre-requisite
AB1003	Professional Attachment	F-Core	5	ABXXXX
			5	

Year 1 Total AU

45

YEAR 2 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-requisite
SC1006	Computer Organisation & Architecture	Core	3	SC1005 (co-requisite)
SC2000	Probability & Statistics for Computing	Core	3	Nil
AB0602	Communication Management Strategies (HW0288)	F-Core	4	CC0001
AB2008	Careers II	F-Core	1	Nil
BC2402	Designing & Developing Database (SC2207)	Core	4	Nil
BC2406	Analytics I: Visual and Predictive Analytics	Core	4	Nil
CC0007	Science & Technology for Humanity	U-Core	3	Nil
			22	

YEAR 2 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-requisite
SC2001	Algorithm Design & Analysis	Core	3	SC1007 & MH1812
SC2203	Automata, Computability and Complexity	Core	3	SC2001 (co-requisite)
AB1201	Financial Management	Core	3	Nil
BC2407	Analytics II: Advanced Predictive Analytics	Core	4	AB1202, BC2406
CC0006	Sustainability: Society, Economy & Environment	U-Core	3	Nil
ML0004	Career & Innovative Enterprise for the Future World	U-Core	2	Nil
			18	

Year 2 Total AU

40

YEAR 3 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-requisite
SC2002	Object Oriented Design & Programming	Core	3	SC1007 OR SC1007
SC2005	Operating Systems	Core	3	SC1006 & SC1007
SC2006	Software Engineering	Core	3	SC2002 (co-requisite)
SC2008	Computer Network	Core	3	SC2000 & SC1004
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing
AB1501	Marketing	Core	3	Nil

			18	
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YEAR 3 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-requisite
SC3099	Capstone project	Core	4	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
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing
AD2102	Management Accounting	Core	3	AD1102
BXxxxx	BA/CS Integration 1	BC-PE1	3	-
			19	
Year 3 Total AU			37	

YEAR 4 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-requisite
SC3099	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
AB3602	Strategic Management	Core	3	AB1501, AB1601
BXxxxx	BA/CS Integration 2	BC-PE2	3	-
			19	

YEAR 4 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-requisite
SC3099	Final Year Project (Part 2)	MPE	4	Year 4 Standing
HE5091	Principles of Economics	Core	3	Nil
SC4xxx	Major Prescribe Elective (Choose within SC4xxx)	MPE	3	Year 3 Standing
SC4xxx	Major Prescribe Elective (Choose within SC4xxx)	MPE	3	Year 3 Standing
BXxxxx	BA/CS Integration 3	BC-PE3	3	-
			16	
Year 4 Total AU			35	

Note:

- 1) 9 MPE courses (SC3xxx or SC4xxx) with atleast 4 courses of SC4xxx.
- 2) A student may choose to do a Final Year Project or 3 MPE courses.
- 3) To obtain the Highest Distinction a student must do a Final Year Project.

MPE Structure of Computer Science (U24 and after)			
Course Code	Type	AU	Remarks
SC3xxx	MPE-1	3	Any MPE
SC3xxx	MPE-2	3	Any MPE
SC3xxx	MPE-3	3	Any MPE
SC3xxx	MPE-4	3	Any MPE
SC3xxx	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 refer the CSC MPE Courses and Specialization on CCDS website.			

Business Course Listing				
Course Code	Course Title	Type	AU	Pre-requisite
AB1202	Statistics & Analysis	Core	3	Nil
AB1301	Business Law	Core	3	Nil
AD1102	Financial Accounting	Core	3	Nil
AB1601	Organisational Behaviour and Design	Core	3	Nil
AB1003	Professional Attachment	F-Core	5	ABXXXX
AB0602	Communication Management Strategies (HW0288)	F-Core	4	CC0001
AB2008	Careers II	F-Core	1	Nil
BC2402	Designing & Developing Database (SC2207)	Core	4	Nil
BC2406	Analytics I: Visual and Predictive Analytics	Core	4	Nil
AB1201	Financial Management	Core	3	Nil
BC2407	Analytics II: Advanced Predictive Analytics	Core	4	AB1202, BC2406
AB1501	Marketing	Core	3	Nil
AD2102	Management Accounting	Core	3	AD1102
AB3602	Strategic Management	Core	3	AB1501, AB1601
HE5091	Principles of Economics	Core	3	Nil
BXxxxx	BA/CS Integration 1	BC-PE1	3	-
BXxxxx	BA/CS Integration 2	BC-PE2	3	-
BXxxxx	BA/CS Integration 3	BC-PE3	3	-