

AY2024-25

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	40
3	12	6	12	3	0	0	37
4	9	6	15	6	0	0	35
Total	52	39	27	9	17	13	157

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	C-Core	2	Nil	
CC0005	Healthy Living & Wellbeing	C-Core	3	Nil	
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	C-Core	2	Nil	
CC0002	Navigating the Digital World	C-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	C-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	C-Core	3	Nil	
ML0004	Career & Innovative Enterprise for the Future World	C-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	SC1003 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	

YEAR 3 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-requisite
SC2079	Multidisciplinary Design 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
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
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
SC4079	Final Year Project (Part 2)	Core	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

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	-