

AY2025-2026
CURRICULUM FOR COMPUTER SCIENCE & BUSINESS (BA SPECIALISATION)
DOUBLE DEGREE PROGRAMME

SUMMARY OF ACADEMIC UNIT REQUIREMENT

Year of Study	Core		MPE		ICC			Total AU
	CSC	BUS	CSC	BUS	C-Core	Professional Series	Care, Serve, Learn	
Y1	16	9	0	0	6	8	0	39
Y2	12	15	0	0	8	5	3	43
Y3	16	6	12	3	0	0	0	37
Y4	0	6	23/24	6	0	1	0	36/37
Total	44	36	35/36	9	14	14	3	155/156

Recommended Course Schedule

YEAR 1 SEMESTER 1

Course Code	Course Title	Type	AU	Pre-requisite/Remarks
SC1003	Introduction to Computational Thinking & Programming	P-Series	3	Nil
SC1004	Linear Algebra for Computing	Core	4	SC1003 (co-req)
AB1301	Business Law	Core	3	Nil
CC0003	Ethics & Civics in a Multicultural World	C-Core	2	Nil
CC0015	Health & Wellbeing	C-Core	2	Nil
HW0001	Introduction to Academic Communication	-	-	For student failed QET
HW0002	Calculus	-	-	For student not done Calculus
TOTAL			14	

YEAR 1 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-requisite/Remarks
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
TOTAL			20	

YEAR 1 SPECIAL SEMESTER

Course Code	Course Title	Type	AU	Pre-requisite/Remarks
AB1003	Professional Attachment (Graded)	P-Series	5	Nil
TOTAL			5	
Year 1 Total AU			39	

YEAR 2 SEMESTER 1

Course Code	Course Title	Type	AU	Pre-requisite/Remarks
SC1006	Computer Organisation & Architecture	Core	3	SC1005 (co-req)
SC2000	Probability & Statistics for Computing	Core	3	Nil
AB0602	Communication Management Strategies (HW0288)	P-Series	4	CC0001
AB2008	Careers II	P-Series	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
ML0004	Career Design & Workplace Readiness in the V.U.C.A World	C-Core	2	Nil
TOTAL			24	

YEAR 2 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-requisite/Remarks
SC2001	Algorithm Design & Analysis	Core	3	SC1007 & MH1812
SC2203	Automata, Computability and Complexity	Core	3	SC2001 (co-req)
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
CLxxx	CSL (service learning course)- Part 1	CSL	3	(Continue in Semester 1)
TOTAL			19	
Year 2 Total AU			43	

YEAR 3 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-requisite/Remarks
SC2002	Object Oriented Design & Programming	Core	3	SC1003 OR SC1007
SC2005	Operating Systems	Core	3	SC1006 & SC1007
SC2006	Software Engineering	Core	3	SC2002 (co-req)
SC2008	Computer Network	Core	3	SC2000 & SC1004
AB1501	Marketing	Core	3	Nil
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE-1	3	Year 3 Standing
CLxxxx	CSL (service learning course)- Part 2	CSL	-	(Continue from Semester 2)
TOTAL			18	

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

YEAR 4 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-requisite/Remarks
SC4079	Final Year Project (Part 1)	MPE	4	Year 4 Standing
AB3602	Strategic Management	Core	3	AB1501, AB1601
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE-5	3	Year 3 Standing
SC4xxx	Major Prescribe Elective (Choose within SC4xxx)	MPE-6	3	Year 3 Standing
SC4xxx	Major Prescribe Elective (Choose within SC4xxx)	MPE-7	3	Year 3 Standing
BXxxxx	BA/CS Integration 2	BC-PE2	3	-
ML0015	Profession Preparation	P-Series	1	Nil
TOTAL			20	

YEAR 4 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-requisite/Remarks
SC4079	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-8	3	Year 3 Standing
SC4xxx	Major Prescribe Elective (Choose within SC4xxx)	MPE-9	3	Year 3 Standing
BXxxxx	BA/CS Integration 3	BC-PE3	3	-
TOTAL			16	
Year 4 Total AU			36	
Grand Total (Year 1 to 4)			155	

Important Note:

- Students are required to complete **9 Major Prescribed Electives (MPE) courses** (SC3xxx or SC4xxx), of which **at least 4 must be at the SC4xxx level**.
- Students may choose to complete a **Final Year Project (FYP)** or take **3 additional MPEs** in its place.
- In order to graduate with **Highest Distinction**, students **must complete a Final Year Project**.

MPE Structure of Computer Science (U24 and after)			
Course Code	Type	AU	Remarks
SC3xxx/SC4xxx	MPE-1	3	MPE (Choose within SC3xxx/SC4xxx)
SC3xxx/SC4xxx	MPE-2	3	MPE (Choose within SC3xxx/SC4xxx)
SC3xxx/SC4xxx	MPE-3	3	MPE (Choose within SC3xxx/SC4xxx)
SC3xxx/SC4xxx	MPE-4	3	MPE (Choose within SC3xxx/SC4xxx)
SC3xxx/SC4xxx	MPE-5	3	MPE (Choose within SC3xxx/SC4xxx)
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 Specialisation on CCDS website.](#)

Business Course Listing				
Course Code	Course Title	Type	AU	Pre-requisite/Remarks
AB1301	Business Law	Core	3	Nil
AD1102	Financial Accounting	Core	3	Nil
AB1601	Organisational Behaviour and Design	Core	3	Nil
AB1003	Professional Attachment (Graded)	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
BXXXX	BA/CS Integration 1	BC-PE1	3	-
BXXXX	BA/CS Integration 2	BC-PE2	3	-
BXXXX	BA/CS Integration 3	BC-PE3	3	-