

AY2025-2026
CURRICULUM FOR B.Comp(Computer Engineering) & B.Bus (BA Specialization)

DOUBLE DEGREE PROGRAMME

SUMMARY OF ACADEMIC UNIT REQUIREMENT

Year of Study	Core		MPE		ICC		Care, Serve & Learn	Total AU
	CE	BUS	CE	BUS	Common Core	Professional Series		
1	20	9	0	0	6	8	0	43
2	12	15	0	0	8	5	0	40
3	28	6	0	3	0	0	3	40
4	8	6	12	6	1	0	0	33
Total	68	36	12	9	15	13	3	156

Recommended Course Schedule

YEAR 1 SEMESTER 1

Course Code	Course Title	Type	AU	Pre-requisite
SC1003	Introduction to Computational Thinking & Programming	Professional Series	3	Nil
SC1013	Physics For Computing	Core	2	Nil
SC1004	Linear Algebra for Computing	Core	4	SC1003 (co-requisite)
EG1001	Engineers in Society	Core	2	Nil
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
			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
			20	

YEAR 1 SPECIAL SEMESTER

Course Code	Course Title	Type	AU	Pre-requisite
AB1003	Professional Attachment	Professional Series	5	ABXXXX
			5	

Year 1 Total AU

46

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)	Professional Series	4	CC0001
AB2008	Careers II	Professional 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	Core	2	Nil
			24	

YEAR 2 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-requisite
SC2001	Algorithm Design & Analysis	Core	3	SC1007 & MH1812
SC2103	Digital Systems Design	Core	3	SC1005
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
CSL	CSL (service learning course)- Part 1	CSL	-	(Continue in Semester 2)
			16	

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
SC2107	Microprocessor System Design and Development	Core	3	SC1006
AB1501	Marketing	Core	3	Nil
CSL	CSL (service learning course)- Part 2	CSL	3	(Continue from Semester 1)
			18	

YEAR 3 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-requisite
SC2079	Multidisciplinary Design Project	Core	4	Year 3 Standing
SC2104	Sensors, Interfacing & Digital Control	Core	3	SC1006
SC3102	Signals, Systems and Transforms	Core	3	SC1004
SC3103	Embedded Programming	Core	3	SC2107
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
AB3602	Strategic Management	Core	3	AB1501, AB1601
BXxxxx	BA/CS Integration 2	BC-PE2	3	-
ML0015	Profession Preparation	Professional Series	1	Nil
			17	

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

33

MPE Structure of Computer Engineering (U24 and after)			
Course Code	Type	AU	Remarks
SC3xxx/SC4xxx	MPE-1	3	Any MPE
SC4xxx	MPE-2	3	Choose within SC4xxx
SC4xxx	MPE-3	3	Choose within SC4xxx
SC4xxx	MPE-4	3	Choose within SC4xxx
	Total	12	
Please refer the CE MPE Courses and Elective Focus Areas on CCDS website.			

Business Course Lising				
Course Code	Course Title	Type	AU	Pre-requisite
AB1301	Business Law	Core	3	Nil
AD1102	Financial Accounting	Core	3	Nil
AB1601	Organisational Behaviour and Design	Core	3	Nil
AB1003	Professional Attachment	PS	5	ABXXXX
AB0602	Communication Management Strategies (HW0288)	PS	4	CC0001
AB2008	Careers II	PS	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	-