

**AY2021-22 CURRICULUM FOR COMPUTER
SCIENCE 2ND MAJOR IN ENTREPRENEURSHIP**

SUMMARY OF ACADEMIC UNIT REQUIREMENT							
Year of Study	Major		ET	Interdisciplinary Collaborate Core		BDE	Total AU
	Core	MPE		C-Core	F-Core		
1	19	0	6	9	3	0	37
2	24	0	6	8	0	0	38
3	7	6	3	0	12	0	28
4	8	18	10	0	0	0	36
Total	58	24	25	17	15	0	139

Suggested Study Plan

YEAR 1 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite
SC1003	Introduction to Computational Thinking & Programming	C	3	Nil
SC1013	Physics for Computing	C	2	Nil
MH1810	Mathematics I	C	3	Nil
MH1812	Discrete Mathematics	C	3	Nil
ET5211	Entrepreneurial Mindset & Technology Innovation	C	3	Nil
CC0003	Ethics & Civics in a Multi-Cultural World	C-Core	2	Nil
CC0005	Healthy Living & Mental Wellbeing	C-Core	3	Nil
HW0001	Introduction to Academic Communication	-	0	For student who failed QET
			19	

YEAR 1 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
SC1005	Digital Logic	C	3	Nil
SC1007	Data Structures & Algorithms	C	3	SC1003
SC1015	Introduction to Data Science & AI	F-Core	3	SC1003
EG1001	Engineers in Society	C	2	Nil
ET5213	Managing New Ventures	C	3	Nil
CC0001	Inquiry and Communication in an Interdisciplinary World	C-Core	2	Nil
CC0002	Navigating the Digital World	C-Core	2	Nil
			18	

YEAR 2 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite
SC1004	Linear Algebra for Computing	C	3	MH1810, SC1003
SC1006	Computer Organisation & Architecture	C	3	SC1005
SC2001	Algorithm Design and Analysis	C	3	SC1007, MH1812
SC2002	Object Oriented Design and Programming	C	3	SC1003
ET5212	Entrepreneurial Ecosystems	C	3	Nil
CC0007	Sustainability: Society, Economy & Environment	C-Core	3	Nil
			18	

YEAR 2 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
SC2000	Probability and Statistics for Computing	C	3	MH1810
SC2005	Operating Systems	C	3	SC1006, SC1007
SC2006	Software Engineering	C	3	SC2002
SC2207	Introduction to Database	C	3	SC2001
ET5214	Financing Entrepreneurial Ventures	C	3	ET9213
CC0007	Science & Technology for Humanity	C-Core	3	Nil
ML0004	Career & Entrepreneurial Development for the Future World	C-Core	2	Nil
			20	

YEAR 3 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite
SC2008	Computer Networks	C	3	SC1004, SC2000
SC2079	Multidisciplinary Design Project	C	4	Year 3 standing
SC3000	Third Year Major Prescribe Elective - Artificial Intelligence	MPE-1	3	SC1007, SC1015, SC2000
SC3010	Third Year Major Prescribe Elective - Computer Security	MPE-1	3	SC2005
ET-E1	Entrepreneurship Elective 1	C	3	TBC
HW0288	Engineering Communication	F-Core	2	CC0001
			18	

YEAR 3 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
SC3079	Professional Internship	F-Core	10	Year 3 standing
			10	

YEAR 4 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite
SC4079	Final Year Project	C	4	Year 4 standing
SC30xx	Third Year Major Prescribe Elective	MPE-1	3	Year 3 standing
SC30xx	Third Year Major Prescribe Elective	MPE-1	3	Year 3 standing
SC4xxx	Final Year Major Prescribe Elective	MPE-2	3	Year 3 standing
ET-E2	Entrepreneurship Elective 2	C	3	TBC
ET-E3	Entrepreneurship Elective 3	C	3	TBC
			19	

YEAR 4 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
SC4079	Final Year Project (*Continue from previous Semester)	C	4	Year 4 standing
SC4xxx	Final Year Major Prescribe Elective	MPE-2	3	Year 3 standing
SC4xxx	Final Year Major Prescribe Elective	MPE-2	3	Year 3 standing
SC4xxx	Final Year Major Prescribe Elective	MPE-2	3	Year 3 standing
ET-E4	Entrepreneurship Elective 4	C	4	TBC
			17	