

**AY2021-22 CURRICULUM FOR COMPUTER ENGINEERING
2ND MAJOR IN BUSINESS**

Option 1: 20-week Professional Internship (PI)

SUMMARY OF ACADEMIC UNIT REQUIREMENT							
Year of Study	Major		Business courses	Interdisciplinary Collaborative Core		BDE	Total AU
	Core	PE		Common Core (C-Core)	Foundational Core (F-Core)		
1	19	0	6	9	3	0	37
2	24	0	6	8	0	0	38
3	13	0	6	0	12	0	31
4	14	12	12	0	0	0	38
Total	70	12	30	17	15	144	144

Suggested Course Schedule

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
AB1201	Financial Management	Business	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	SC1103
SC1015	Introduction to Data Science and Artificial Intelligence	F-Core	3	SC1103
AB1501	Marketing	Business	3	Nil
EG1001	Engineers in Society	C	2	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
AD1102	Financial Accounting	Business	3	Nil
CC0007	Science & Technology for Humanity	C-Core	3	Nil
			20	

YEAR 2 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
SC2000	Probability and Statistics for Computing	C	3	MH1810
SC2103	Digital Systems Design	C	3	SC1005
SC2104	Sensors, Interfacing & Digital Control	C	3	SC1006
SC2005	Operating Systems	C	3	SC1006, SC1007
AB1601	Organisational Behaviour and Design	Business	3	Nil
CC0006	Sustainability: Human Society Economic & Environment	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
SC2006	Software Engineering	C	3	SC2002
SC2107	Microprocessor System Design and Development	C	3	SC1006
SC2008	Computer Networks	C	3	SC1004, SC2000
SC2079	Multidisciplinary Design Project	C	4	Year 3 standing
AD2102	Management Accounting	Business	3	AD1102
AB1301	Business Law	Business	3	Nil
HW0288	Effective Communication 2	F-Core	2	CC0001
			21	

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*
SC3102	Signal, Systems and Transform	C	3	SC1004
SC3103	Embedded Programming	C	3	SC2107
SC4xxx	Major Prescribed Elective	MPE	3	Year 3 standing
BF2219	Investments	Business	3	AB1201
BE2602	Management in Principles, Skills & Competencies	Business	3	AB1601
			19	

YEAR 4 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
SC4079	Final Year Project	C	4	*Continue from previous semester
SC4xxx	Major Prescribed Elective	MPE	3	Year 3 standing
SC4xxx	Major Prescribed Elective	MPE	3	Year 3 standing
SC4xxx	Major Prescribed Elective	MPE	3	Year 3 standing
BM2509	Consumer Insights	Business	3	Nil
BE1402	Business Operations & Process	Business	3	Nil
			19	

Total AU for Graduation : **144**

**AY2020-21 CURRICULUM FOR COMPUTER ENGINEERING
2ND MAJOR IN BUSINESS**

Option 2: 10-week Professional Attachment (PA)

SUMMARY OF ACADEMIC UNIT REQUIREMENT							
Year of Study	Core	MPE	2BM	Known as GER for intakes before S1 AY21-22			Total AU
				C-Core	F-Core	BDE	
1	19	0	6	9	3	0	37
2	24	0	6	8	0	0	38
3	19	0	9	0	7	3	38
4	8	12	9	0	0	2	31
Total	70	12	30	17	15	149	144

Suggested Course Schedule

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
AB1201	Financial Management	Business	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	SC1103
SC1015	Introduction to Data Science and Artificial Intelligence	F-Core	3	SC1103
AB1501	Marketing	Business	3	Nil
EG1001	Engineers in Society	C	2	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
AB1102	Financial Accounting	Business	3	Nil
CC0007	Science & Technology for Humanity	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
SC2103	Digital Systems Design	C	3	SC1005
SC2104	Sensors, Interfacing & Digital Control	C	3	SC1006
SC2005	Operating Systems	C	3	SC1006, SC1007
AB1601	Organisational Behaviour and Design	Business	3	Nil
CC0006	Sustainability: Human Society Economic & Environment	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
SC2006	Software Engineering	C	3	SC2002
SC2107	Microprocessor System Design and Development	C	3	SC1006
SC2008	Computer Networks	C	3	SC1004, SC2000
AD2102	Management Accounting	Business	3	AD1102
AB1301	Business Law	Business	3	Nil
HW0288	Effective Communication 2	F-Core	2	CC0001
			17	

YEAR 3 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
SC3102	Signal, Systems and Transform	C	3	SC1004
SC3103	Embedded Programming	C	3	SC2107
SC2079	Multidisciplinary Design Project	C	4	Year 3 standing
BF2219	Investments	Business	3	AB1201
xxxx	Broadening and Deepening Elective	BDE	3	Nil
			16	

YEAR 3 Special Term				
Course Code	Course Title	Type	AU	Pre-Requisite
SC3126	Professional Attachment	F-Core	5	Year 3 Standing
			5	

YEAR 4 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite
SC4079	Final Year Project	C	4	Year 4 standing
SC4xxx	Major Prescribed Elective	MPE	3	Year 3 standing
SC4xxx	Major Prescribed Elective	MPE	3	Year 3 standing
SC4xxx	Major Prescribed Elective	MPE	3	Year 3 standing
BE2602	Management in Principles, Skills & Competencies	Business	3	AB1601
			16	

YEAR 4 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
SC4079	Final Year Project	C	4	*Continue from previous semester
SC4xxx	Major Prescribed Elective	MPE	3	Year 3 standing
BM2509	Consumer Insights	Business	3	Nil
BE1402	Business Operations & Process	Business	3	Nil
xxxx	Broadening and Deepening Elective	BDE	2	Nil
			15	

Total AU for Graduation :

144