

AY2021 (& later) CURRICULUM FOR COMPUTER ENGINEERING
Second Major in Business (ITG)

Option 1: 20-week Professional Internship (PI)

SUMMARY OF ACADEMIC UNIT REQUIREMENT							
Year of Study	Core	MPE	2BM-ITG	ICC		BDE	Total AU
				C-Core	F-Core		
1	19	0	6	9	3	0	37
2	21	0	8	8	0	0	37
3	10	0	6	0	12	0	28
4	20	12	11	0	0	0	43
Total	70	12	31	17	15	0	145

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	2BM	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
AB1501	Marketing	2BM	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
SC1006	Computer Organisation & Architecture	C	3	SC1005
SC2001	Algorithm Design and Analysis	C	3	SC1007, MH1812
AD1102	Financial Accounting	2BM	3	Nil
BF2227	Commodity Markets	ITG	3	Nil
CC0007	Science & Technology for Humanity	C-Core	3	Nil
			15	

YEAR 2 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
SC1004	Linear Algebra for Computing	C	3	MH1810, SC1003
SC2000	Probability and Statistics for Computing	C	3	MH1810
SC2002	Object Oriented Design and Programming	C	3	SC1003
SC2103	Digital System Design	C	3	SC1005
SC2104	Sensors, Interfacing & Digital Control	C	3	SC1006
BF3214	Commodities Trading	ITG	2	Nil
BE1402	Business Operations & Process	2BM	3	Nil
CC0006	Sustainability: Human Society Economic & Environment	C-Core	3	Nil
ML0004	Career & Entrepreneurial Development for the Future World	C-Core	2	Nil
			25	

YEAR 3 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite
SC2005	Operating Systems	C	3	SC1006, SC1007
SC2107	Microprocessor System Design and Development	C	3	SC1006
SC2079	Multidisciplinary Design Project	C	4	Year 3 standing
AD2102	Management Accounting	2BM	3	AD1102
BF2226	Trade Incoterms & Ship Chartering	ITG	3	AB1201
HW0288	Engineering Communication	F-Core	2	Nil
			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
SC2006	Software Engineering	C	3	SC2002
SC2008	Computer Networks	C	3	SC1004, SC2000
SC3103	Embedded Programming	C	3	SC2107
SC3102	Signal, Systems and Transform	C	3	
BF2302	International Tax & Trading Law	ITG	2	Nil
BF3226	Strategic Management in Commodity Markets	ITG	2	Nil
			20	

YEAR 4 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
SC4079	Final Year Project	C	4	*Continue from previous
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
SC4xxx	Major Prescribed Elective	MPE	3	Year 3 standing
BF3212	Trade, Structured & Supply Chain Finance	ITG	2	Nil
BF3213	Enterprise Risk Management in Commodity Markets	ITG	2	Nil
			20	

Total AU for Graduation : **145**

AY2021 (& later) CURRICULUM FOR COMPUTER ENGINEERING
Second Major in Business (ITG)

Option 2: 10-week Professional Attachment (PA)

SUMMARY OF ACADEMIC UNIT REQUIREMENT							
Year of Study	Core	MPE	2BM-ITG	ICC		BDE	Total AU
				C-Core	F-Core		
1	19	0	6	9	3	0	37
2	18	0	8	8	0	0	34
3	25	0	6	0	7	3	41
4	8	12	11	0	0	2	33
Total	70	12	31	17	10	5	145

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	2BM	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
AB1501	Marketing	2BM	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
SC1006	Computer Organisation & Architecture	C	3	SC1005
SC2001	Algorithm Design and Analysis	C	3	SC1007, MH1812
AD1102	Financial Accounting	2BM	3	Nil
BF2227	Commodity Markets	ITG	3	Nil
CC0007	Science & Technology for Humanity	C-Core	3	Nil
			15	

YEAR 2 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
SC1004	Linear Algebra for Computing	C	3	MH1810, SC1003
SC2000	Probability and Statistics for Computing	C	3	MH1810
SC2002	Object Oriented Design and Programming	C	3	SC1003
SC2103	Digital System Design	C	3	SC1005
BF3214	Commodities Trading	ITG	2	Nil
BE1402	Business Operations & Process	2BM	3	Nil
CC0006	Sustainability: Human Society Economic & Environment	C-Core	3	Nil
ML0004	Career & Entrepreneurial Development for the Future World	C-Core	2	Nil
			22	

YEAR 3 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite
SC2104	Sensors, Interfacing & Digital Control	C	3	SC1006
SC2005	Operating Systems	C	3	SC1006, SC1007
SC2107	Microprocessor System Design and Development	C	3	SC1006
SC2079	Multidisciplinary Design Project	C	4	Year 3 standing
AD2102	Management Accounting	2BM	3	AD1102
HW0288	Engineering Communication	F-Core	2	Nil
			18	

YEAR 3 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
SC2006	Software Engineering	C	3	SC2002
SC2008	Computer Networks	C	3	SC1004, SC2000
SC3103	Embedded Programming	C	3	SC2107
SC3102	Signal, Systems and Transform	C	3	SC1004
BF2226	Trade Incoterms & Ship Chartering	ITG	3	AB1201
xxxx	Broadening & Deepening Elective	BDE	3	Nil
			18	

YEAR 3 Special Term				
Course Code	Course Title	Type	AU	Pre-Requisite
SC3079	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
BF2302	International Tax & Trading Law	ITG	2	Nil
BF3226	Strategic Management in Commodity Markets	ITG	2	Nil
			14	

YEAR 4 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
SC4079	Final Year Project	C	4	*Continue from previous
SC4xxx	Major Prescribed Elective	MPE	3	Year 3 standing
SC4xxx	Major Prescribed Elective	MPE	3	Year 3 standing
BF3212	Trade, Structured & Supply Chain Finance	C	2	Nil
BF3213	Enterprise Risk Management in Commodity Markets	C	2	Nil
xxxx	Broadening & Deepening Elective	BDE	2	Nil
			16	

Total AU for Graduation : **145**

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Code	Title	Type	AU
AB1201	Financial Management	2BM	3
AB1501	Marketing	2BM	3
AD1102	Financial Accounting	2BM	3
AD2102	Management Accounting	2BM	3
BE1402	Business Operations & Process	2BM	3
BF2226	Trade Incoterms & Ship Chartering	ITG	3
BF2227	Commodity Markets	ITG	3
BF2302	International Tax & Trading Law	ITG	2
BF3212	Trade, Structured & Supply Chain Fi	ITG	2
BF3213	Enterprise Risk Management in Com	ITG	2
BF3214	Commodities Trading	ITG	2
BF3226	Strategic Management in Commodity	ITG	2