

AY2019-20 CURRICULUM FOR COMPUTER ENGINEERING

SUMMARY OF ACADEMIC UNIT REQUIREMENT						
Year of Study	Core	MPE	GER		UE	Total AU
			Core	PE		
1	23	0	9	3	3	38
2	27	0	2	6	3	38
3	20	3	3	0	3	29
4	14	15	0	0	6	35
Total	84	18	14	9	15	140

Suggested Course Schedules

YEAR 1 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite
CE1011	Engineering Mathematics I	C	3	
CE1012	Engineering Mathematics II	C	3	CE1011 (can be taken concurrently)
CE1003	Introduction to Computational Thinking	C	3	
CE1013	Physics for Computing	C	2	
CE1005	Digital Logic	C	3	
HW0188	Engineering Communication I	GER-Core	2	HW0001 (can be taken concurrently)
GC0001	Sustainability : Seeing Through the Haze	GER-Core	1	online course
HW0001	Introduction to Academic Communication	GER-Core	0	
			17	

YEAR 1 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
CE1006	Computer Organisation and Architecture	C	3	CE1005 (can be taken concurrently)
CE1007	Data Structures	C	3	CE1003
MH1812	Discrete Mathematics	C	3	
CE0001	Engineers and Society	GER-Core	3	
CE1015	Introduction to Data Science and Artificial Intelligence	GER-Core	3	CE1003
	Science & Technology	GER-PE	3	
	Unrestricted Elective	UE	3	
			21	

YEAR 2 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite
CE2001	Algorithms	C	3	CE1007, CE1012, MH1812
CE2002	Object Oriented Design & Programming	C	3	CE1007
CE2004	Circuits and Signal Analysis	C	3	CE1012
CE2005	Operating Systems	C	3	CE1006, CE1007
CE2007	Microprocessor-based Systems Design	C	3	CE1006, CE2004 (can be taken concurrently)
HY0001	Ethics & Moral Reasoning	GER-Core	1	online course
	Liberal Arts	GER-PE	3	
			19	

YEAR 2 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
CE2003	Digital Systems Design	C	3	CE1005
CE2006	Software Engineering	C	3	CE2002 (can be taken concurrently)
CE3001	Advanced Computer Architecture	C	3	CE1006
CE3003	Microcontroller Programming	C	3	CE2005
	Business & Management	GER-PE	3	
ML0003	Kickstart your Career Success	GER-Core	1	online course
	Unrestricted Elective	UE	3	
			19	

YEAR 3 SEMESTER 1

Course Code	Course Title	Type	AU	Pre-Requisite
CE3002	Sensors, Interfacing and Control	C	3	CE2004
CE3004	Multidisciplinary Design Project	C	4	Year 3 Standing
CE3005	Computer Networks	C	3	CE1011, CE1012
	Technical Elective 1	MPE	3	
	Unrestricted Elective	UE	3	
HW0288	Engineering Communication II	GER-Core	2	HW0188, Year 3 standing
ET0001	Enterprise & Innovation	GER-Core	1	online course
			19	

YEAR 3 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-Requisite
CE3179	Professional Internship	C	10	ML0003, Year 3 standing
			10	

YEAR 4 SEMESTER 1

Course Code	Course Title	Type	AU	Pre-Requisite
CE4079	Final Year Project	C	-	Final year standing
CE3006	Digital Communications	C	3	CE1011, CE2004
CE4XXX	Technical Elective 2	MPE	3	
CE4XXX	Technical Elective 3	MPE	3	
CE4XXX	Technical Elective 4	MPE	3	
	Unrestricted Elective	UE	3	
			15	

YEAR 4 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-Requisite
CE3007	Digital Signal Processing	C	3	CE2004
CE4079	Final Year Project	C	8	
CE4XXX	Technical Elective 5	MPE	3	
CE4XXX	Technical Elective 6	MPE	3	
	Unrestricted Elective	UE	3	
			20	

Total AU for Graduation : **140**