

**AY2020-21 CURRICULUM FOR COMPUTER ENGINEERING
ACCELERATED BACHELOR PROGRAMME (ABP)**

Last Updated : 29-May-21

SUMMARY OF ACADEMIC UNIT REQUIREMENT								
Year of Study	Core	MPE	General Education Requirement (GER)				UE	Total AU
			Core	Prescribed Elective (PE)				
				BM	LA	STS		
1	26	0	11	0	3	0	3	43
2	34	0	1	3	0	3	3	44
3	17	9	2	0	0	0	3	31
4	7	9	0	0	0	0	6	22
Total	84	18	14	9			15	140

YEAR 1 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite
MH1810	Mathematics I	C	3	
CE1103	Introduction to Computational Thinking & Programming	C	3	
CE1105	Digital Logic (Engineering Fundamentals 1)	C	3	
CE1113	Physics for Computing	C	2	
EG0001	Engineers & Society	GER-Core	3	
HW0111	Communication: A Journey of Inquiry through Writing and Speech	GER-Core	2	HW0001 (can be taken concurrently)
GC0001	Sustainability: Seeing Through the Haze	GER-Core	1	online course
HY0001	Ethics & Moral Reasoning	GER-Core	1	online course
	Liberal Arts	GER-PE	3	
			21	

YEAR 1 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
MH1812	Discrete Mathematics	C	3	
CE1104	Linear Algebra for Computing	C	3	MH1810
CE1106	Computer Organisation & Architecture	C	3	CE1105 (can be taken concurrently)
CE1107	Data Structures & Algorithms	C	3	CE1103
	Engineering Fundamentals 2	C	3	
CE1115	Introduction to Data Science and Artificial Intelligence	GER-Core	3	CE1103
ET0001	Enterprise & Innovation	GER-Core	1	online course
	Unrestricted Elective 1	UE	3	
			22	

YEAR 2 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite
CE2100	Probability and Statistics for Computing	C	3	MH1810
CE2101	Algorithm Design and Analysis	C	3	MH1812, CE1107
CE2002	Object Oriented Design & Programming	C	3	CE1103
CE3002	Sensors, Interfacing & Control	C	3	CE1106
CE2005	Operating Systems	C	3	CE1106, CE1107
CE2107	Microprocessor System Design and Development	C	3	CE1106
ML0003	Kickstart your Career Success	GER-Core	1	online course
	Business Management	GER-PE	3	
			22	

YEAR 2 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite

CE2003	Digital Systems Design	C	3	CE1105
CE2006	Software Engineering	C	3	CE2002 (can be taken concurrently)
CE3103	Embedded Programming	C	3	CE2107
CE3004	Multidisciplinary Design Project	C	4	Year 3 standing
CE3005	Computing Networks	C	3	CE1104, CE2100
	Unrestricted Elective 2	UE	3	
	Science & Technology	GER-PE	3	
			22	

YEAR 3 SEMESTER 1

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

YEAR 3 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-Requisite
CE4079	Final Year Project	C	4	Final year standing
CE3001	Advanced Computer Architecture	C	3	CE1106
CE/CZ4XXX	Prescribed Elective 1	MPE	3	Depends on MPE
CE/CZ4XXX	Prescribed Elective 2	MPE	3	Depends on MPE
CE/CZ4XXX	Prescribed Elective 3	MPE	3	Depends on MPE
HW0288	Engineering Communication	GER-Core	2	HW0111, Year 3 standing
	Unrestricted Elective 3	UE	3	
			21	

YEAR 4 SEMESTER 1

Course Code	Course Title	Type	AU	Pre-Requisite
CE4079	Final Year Project (cont)	C	4	Final year standing
CE3102	Signal, Systems and Transform	C	3	CE1106
CE/CZ4XXX	Prescribed Elective 4	MPE	3	Depends on MPE
CE/CZ4XXX	Prescribed Elective 5	MPE	3	Depends on MPE
CE/CZ4XXX	Prescribed Elective 6	MPE	3	Depends on MPE
	Unrestricted Elective 4	UE	3	
	Unrestricted Elective 5	UE	3	
			22	

Total AU for Graduation : **140**