

**AY2020-21 CURRICULUM FOR COMPUTER ENGINEERING  
DOUBLE DEGREE IN BUSINESS (with BA Specialisation)**

Last Updated : 29-05-21

<b>SUMMARY OF ACADEMIC UNIT REQUIREMENT</b>								
<b>Year of Study</b>	<b>CE-CORE</b>	<b>CE-MPE</b>	<b>BA-CORE</b>	<b>BA-MPE</b>	<b>GER-Core</b>	<b>GER-PE</b>	<b>UE</b>	<b>Total AU</b>
1	20	0	17	0	13	0	0	<b>50</b>
2	21	0	7	12	0	0	0	<b>40</b>
3	22	(4)	3	4	5	0	3	<b>37</b>
4	11	9 (8)	7	8	0	3	0	<b>38</b>
<b>Total</b>	<b>74</b>	<b>9 (12)</b>	<b>34</b>	<b>24</b>	<b>18</b>	<b>3</b>	<b>3</b>	<b>165</b>

<b>YEAR 1 SEMESTER 1</b>				
<b>Course Code</b>	<b>Course Title</b>	<b>Type</b>	<b>AU</b>	<b>Pre-Requisite</b>
MH1810	Mathematics I	C	3	
MH1812	Discrete Mathematics	C	3	
CE1103	Introduction to Computational Thinking & Programming	C	3	
CE1113	Physics for Computing	C	2	
AB1202	Statistical and Quantitative Methods	C	3	
AB1001	Career Foundations	C	1	
AB1301	Business Law	GER-Core	3	
EG0001	Engineers & Society	GER-Core	3	
GC0001	Sustainability: Seeing Through the Haze	GER-Core	1	online course
HY0001	Ethics & Moral Reasoning	GER-Core	1	online course
			<b>23</b>	

<b>YEAR 1 SEMESTER 2</b>				
<b>Course Code</b>	<b>Course Title</b>	<b>Type</b>	<b>AU</b>	<b>Pre-Requisite</b>
	Engineering Fundamentals 2	C	3	
CE1105	Digital Logic	C	3	
CE1106	Computer Organisation & Architecture	C	3	CE1105 (can be taken concurrently)
AD1101	Financial Accounting	C	4	
AB1601	Organisation Behaviour and Design	C	3	
AB1002	Career Readiness	C	1	AB1001
AB0601	Communication Management Fundamentals	GER-Core	2	
CE1115	Introduction to Data Science and Artificial Intelligence	GER-Core	3	CE1103
			<b>22</b>	

<b>YEAR 1 SPECIAL SEMESTER</b>				
<b>Course Code</b>	<b>Course Title</b>	<b>Type</b>	<b>AU</b>	<b>Pre-Requisite</b>
AB1003	Professional Attachment (Special Semester)	C	5	AB1002
			<b>5</b>	

**YEAR 2 SEMESTER 1**

Course Code	Course Title	Type	AU	Pre-Requisite
CE1104	Linear Algebra for Computing	C	3	MH1810
CE1107	Data Structures & Algorithms	C	3	CE1103
CE2107	Microprocessor Systems Design and Development	C	3	CE1106
AD2101	Management Accounting	C	4	AD1101
BC2402	Designing & Developing Databases	MPE	4	
BC2406	Analytics I: Visual and Predictive Analytics	MPE	4	
			<b>21</b>	

**YEAR 2 SEMESTER 2**

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 and Programming	C	3	CE1103
CE2003	Digital Systems Design	C	3	CE1105
AB1201	Financial Management	C	3	
BC2407	Analytics II: Advanced Predictive Analytics	MPE	4	
			<b>19</b>	

**YEAR 3 SEMESTER 1**

Course Code	Course Title	Type	AU	Pre-Requisite
CE2005	Operating Systems	C	3	CE1106, CE1107
CE2006	Software Engineering	C	3	CE2002 (can be taken concurrently)
CE3002	Sensors, Interfacing & Control	C	3	CE1106
CE3004	Multidisciplinary Design Project	C	4	Year 3 standing
AB1501	Marketing	C	3	
ET0001	Enterprise & Innovation	GER-Core	1	online course
			<b>17</b>	

**YEAR 3 SEMESTER 2**

Course Code	Course Title	Type	AU	Pre-Requisite
CE3001	Advanced Computer Architecture	C	3	CE1106
CE3103	Embedded Programming	C	3	CE2107
CE3005	Computing Networks	C	3	CE1104, CE2100
AB0602	Communication Management Strategy	GER-Core	4	AB0601
BCXXXX	Business/CS Integration 1	MPE	4	
	Unrestricted Elective	UE	3	
			<b>20</b>	

**YEAR 4 SEMESTER 1**

Course Code	Course Title	Type	AU	Pre-Requisite
CE4079	Final Year Project	C	4	Final Year Standing
CE3102	Signal, Systems and Transform	C	3	
CE/CZ4XXX	Prescribed Elective 1	MPE	3	Depends on MPE
CE/CZ4XXX	Prescribed Elective 2	MPE	3	Depends on MPE
HE5091	Principles of Economics	C	3	
BCXXXX	Business/CS Integration 2	MPE	4	

	Science & Technology	GER-PE	3	
			<b>23</b>	

**YEAR 4 SEMESTER 2**

<b>Course Code</b>	<b>Course Title</b>	<b>Type</b>	<b>AU</b>	<b>Pre-Requisite</b>
CE4079	Final Year Project (cont)	C	4	
CE/CZ4XXX	Prescribed Elective 3	MPE	3	Depends on MPE
BCXXXX	Business/CS Integration 3	MPE	4	
AB3601	Strategic Management	C	4	AB1501, AB1601
			<b>15</b>	

Total AU for Graduation : **165**