

**BE COMPUTER SCIENCE &ENGINEERING (AI&ML)****(2019 REGULATIONS)**  
**(Minimum credits to be earned:165)**

Course Code	Course Title	Periods / Week				Maximum Marks			
		Lecture	Tutorial	Practical	Credits	CA	FE	Total	CAT
<b>SEMESTER VII</b>									
19N701	Embedded Systems	3	0	0	3	50	50	100	PC
19____	Open Elective -2	3	0	0	3	50	50	100	OE
19N____	Professional Elective - 2	3	0	0	3	50	50	100	PE
19N____	Professional Elective - 3	3	0	0	3	50	50	100	PE
19N____	Professional Elective - 4	3	0	0	3	50	50	100	PE
19N710	Embedded Systems Laboratory	0	0	4	2	50	50	100	PC
19N720	Project Work I	0	0	4	2	50	50	100	EEC
<b>Total 23 periods</b>		<b>15</b>	<b>0</b>	<b>8</b>	<b>19</b>	<b>350</b>	<b>350</b>	<b>700</b>	
<b>SEMESTER VIII</b>									
19N____	Professional Elective - 5	3	0	0	3	50	50	100	PE
19N____	Professional Elective - 6	3	0	0	3	50	50	100	PE
19N820	Project Work II	0	0	8	4	50	50	100	EEC
<b>Total 14 periods</b>		<b>6</b>	<b>0</b>	<b>8</b>	<b>10</b>	<b>150</b>	<b>150</b>	<b>300</b>	

CA      Continuous Assessment  
FE      Final Examination

CAT - Category; BS - Basic Science; HS - Humanities and Social Sciences; ES - Engineering Sciences; PC - Professional Core; PE - Professional Elective; OE - Open Elective; EEC - Employability Enhancement Course; MC – Mandatory Course.

### **LANGUAGE ELECTIVES**

19G001 Communication Skills for Engineers  
19G002 German- Level A1.1  
19G003 French Language Level 1  
19G004 Basic Japanese

### **PROFESSIONAL ELECTIVES**

19N001 Advanced Data Structures  
19N002 Approximation Algorithms  
19N003 Augmented Reality  
19N004 Blockchain Technology  
19N005 Compiler Design  
19N006 Computer Vision and Image Processing  
19N007 Cloud Computing  
19N008 Evolutionary Computing Algorithms  
19N009 Graph Theory  
19N010 Human Computer Interaction  
19N011 Information Retrieval  
19N012 Network Data Analytics  
19N013 Randomized Algorithms  
19N014 Recommender Systems  
19N015 Sematic web technology

### **OPEN ELECTIVES**

19NO01 Design Thinking  
19NO02 Ethics of Artificial Intelligence  
19NO03 Intellectual Property Rights

### Summary of Credit Distribution

BE COMPUTER SCIENCE AND ENGINEERING (AI & ML)										
S. No	Course Category	Credits Per Semester								Total Credits
		1	2	3	4	5	6	7	8	
1	HS	3	2	3	0	0	0	0	0	8
2	BS	9	9	8	0	0	0	0	0	26
3	ES	9	8	6	0	0	0	0	0	23
4	PC	0	3	9	20	17	15	5	0	69
5	PE	0	0	0	0	0	3	9	6	18
6	OE	0	0	0	0	3	0	3	0	6
7	EEC	0	0+2 <sup>£</sup>	0	1	3	3	2	4	15
8	MC	-	-	-	-	-	-	-	-	-
	<b>TOTAL</b>	<b>21</b>	<b>22+2<sup>£</sup></b>	<b>26</b>	<b>21</b>	<b>23</b>	<b>21</b>	<b>19</b>	<b>10</b>	<b>165</b>

£ Summer Term Course

CAT - Category; BS - Basic Science; HS - Humanities and Social Sciences; ES - Engineering Sciences; PC - Professional Core; PE - Professional Elective; OE - Open Elective; EEC - Employability Enhancement Course; MC – Mandatory Course.