

I YEAR I SEMESTER								
S.No	Category	Subjects	L	T	P	C	I	E
1	BS	Mathematics-I	3	0	0	3	30	70
2	BS	Applied Chemistry	3	0	0	3	30	70
3	H&S	Communicative English	3	0	0	3	30	70
4	ESC	Computational Thinking and Programming	3	0	0	3	30	70
5	ESC	Elements of Electrical and Electronics Engineering	3	0	0	3	30	70
6	BS Lab	Applied Chemistry Lab	0	0	3	1.5	15	35
7	ESC Lab	Computational Thinking and Programming Lab	0	0	3	1.5	15	35
8	H &S Lab	English Communication Skills Lab	0	0	3	1.5	15	35
		Total Credits				19.5	195	455
		Total Marks					650	

I YEAR II SEMESTER								
S.No	Category	Subjects	L	T	P	C	I	E
1	BS	Mathematics –II	3	0	0	3	30	70
2	BS	Applied Physics	3	0	0	3	30	70
3	ESC	Digital Logic Design	3	0	0	3	30	70
4	ESC	Programming for Problem Solving	3	0	0	3	30	70
5	ESC	Computer Engineering Workshop	1	0	4	3	15	35
6	BS Lab	Applied Physics Lab	0	0	3	1.5	15	35
7	ESC Lab	Advanced Python Programming Lab	0	0	3	1.5	15	35
8	ESC Lab	Programming for Problem Solving Lab	0	0	3	1.5	15	35
9	MC	Environmental Science	2	0	0	0	0	0
	Total Credits					19.5	180	420
	Total Marks						600	

II YEAR I SEMESTER								
S.No	Category	Subjects	L	T	P	C	I	E
1	BS / PC	Discrete Mathematical Structures	3	0	0	3	30	70
2	PC	Data Structures	3	0	0	3	30	70
3	PC	Database Management Systems	3	0	0	3	30	70
4	ESC	Object Oriented Programming thru Java	3	0	0	3	30	70
5	BS	Probability & Statistics	3	0	0	3	30	70
6	PC Lab	Data Structures Lab	0	0	3	1.5	15	35
7	PC Lab	Database Management Systems Lab	0	0	3	1.5	15	35
8	PC Lab	Object Oriented Programming thru Java Lab	0	0	3	1.5	15	35
9	SO	Skill Oriented Course – I 1) Animations – 2D Animation 2) Web Application Development Using Full Stack –Module - I	0	0	4	2	--	50
10	MC	Constitution of India	2	0	0	0		
	Total Credits					21.5	195	505
	Total Marks						700	

II YEAR II SEMESTER								
S.No	Category	Subjects	L	T	P	C	I	E
1	BS	Software Engineering	3	0	0	3	30	70
2	PC	Data warehousing and Mining	3	0	0	3	30	70
3	PC	Operating Systems	3	0	0	3	30	70
4	PC	Introduction to Artificial Intelligence & data Science	3	0	0	3	30	70
5	HS	Universal Human Values	3	0	0	3	30	70
6	PC Lab	Operating Systems Lab	0	0	3	1.5	15	35
7	PC Lab	Artificial Intelligence & Data Science Lab	0	0	3	1.5	15	35
8	PC Lab	Data Mining using Python Lab	0	0	3	1.5	15	35
9	SO	Skill Oriented Course – II 1) Animations – 3D Animation 2) Web Application Development Using Full Stack – Module - II	0	0	4	2	--	50
10	MC	Critical Reading & Creative Writing	2	0	0	0		
		Total Credits				21.5	195	505
		Total Marks					700	

III YEAR I SEMESTER								
S.No	Category	Subjects	L	T	P	C	I	E
1	PC	Design and Analysis of Algorithms	3	0	0	3	30	70
2	PC	Computer Organization	3	0	0	3	30	70
3	PC	Machine Learning	3	0	0	3	30	70
4	OE / JE	Web Technologies	3	0	0	3	30	70
5	PE	Compiler Design / Statistics with R Programming / Data Visualization / Artificial Intelligence & Neural Networks	3	0	0	3	30	70
6	PC Lab	Web Technologies Lab	0	0	3	1.5	15	35
7	PC Lab	Machine Learning Lab	0	0	3	1.5	15	35
8	SAC/Soft Skill	Quantitative Aptitude & Logical Reasoning-I	0	0	4	2	--	50
9	MC	Employability Skills - I	2	0	0	0		
10		Summer Internship	0	0	0	1.5		
		Total Credits				21.5	195	505
		Total Marks					700	

III YEAR II SEMESTER								
S.No	Category	Subjects	L	T	P	C	I	E
1	PC	Computer Networks	3	0	0	3	30	70
2	PC	Big Data Analytics	3	0	0	3	30	70
3	PC	Deep Learning	3	0	0	3	30	70
4	PE	Natural Language Processing / Distributed Systems / Pattern Recognition / Internet Of Things	3	0	0	3	30	70
5	OE / JE	NO SQL Database	3	0	0	3	30	70
6	PC Lab	Deep Learning Lab using TensorFlow	0	0	3	1.5	15	35
7	PC Lab	Big Data Analytics LAB	0	0	3	1.5	15	35
8	PC Lab	No SQL Database Lab	0	0	3	1.5	15	35
9	SAC/Soft Skill	Advanced English Communication Skills Lab	0	0	4	2	--	50
10	MC	Employability Skills - II (Business Analytics using Tableau)	2	0	0	0		
	Total Credits					21.5	195	505
Total Marks							700	

IV YEAR I SEMESTER								
S.No	Category	Subjects	L	T	P	C	I	E
1	PE	Computer vision/ Cloud Computing/ Social Network Analysis/ Speech and video processing	3	0	0	3	30	70
2	PE	Text Analytics/ Image Processing/ Expert Systems/ DevOps	3	0	0	3	30	70
3	PE	Software Project Management / Cryptography and Network Security / Mobile Applications Development / Mobile Computing	3	0	0	3	30	70
4	OE / JE	Robotic Process Automation	3	0	0	3	30	70
5	OE	Open Electives offered by other departments	3	0	0	3	30	70
6	HS Elective	Management Science / Managerial Economics and Financial Analysis	3	0	0	3	30	70
7	Skill Advanced Course	Julia Programming	0	0	4	2	--	50
8	PR	Internship	0	0	0	3		100
	Total Credits					23	180	570
	Total Marks						750	



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DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE

IV YEAR II SEMESTER								
S.No	Category	Subjects	L	T	P	C	I	E
1	Project	Major Project Work, Seminar, Internship	-	-	-	12		
	Total Credits					12		
	Total Marks							