S. No. 1 2 3 4 5	Year of the Programmo Semester - I Name of the Course			Semester - II	
1 2 3 4		Cradita			
2 3 4		Credits	S. No.	Name of the Course	Credits
2 3 4	Calculus	4	1	Linear Algebra and Differential Equations	4
3 4	Physics	4	2	Data Wrangling	3
4	Basic Electrical and Electronics Engineering	3	3	Elements of Biology	3
	Computational Thinking for Problem Solving	4	4	Principles of Economics and Management	3
	Engineering Graphics and Design	2	5	Programming with Python	2
6	Essential Electronics Practices	1	6	Product Realization	2
7	Engineering Ethics	1	7	English Communication	1
8	Indian Knowledge System	0	8	Environmental Studies	0
			9	Constitution of India	0
			10	Transforming Ideas to Innovation	1
Total	8	19	Total	10	19
1 Otal	Year of the Programme:				19
	Semester - III	Second	lear (A)	Semester - IV	
C No	Name of the Course	Cnadita	C No	Name of the Course	Credits
3. No.	Discrete Mathematics	3	<b>5. No.</b>	Artificial Intelligence	3
2	Probability and Statistics	3	2	Machine Learning	4
3	Operating Systems	4	3	Database Management Systems	3
4	Signal and Image Processing	4	4	Design and Analysis of Algorithms	4
5	Data Structures and Algorithms	3	5	Object Oriented Programming	2
6	Program Elective - I	3	6	Program Elective - II	3
7	Data Structures and Algorithms Lab	1	7	Open Elective - I	3
8	Technical Communication	1	8	Database Management Systems Lab	1
9	Data Visualization and Interpretation	2	9	Object Oriented Programming Lab	1
10	Community Service	0	10	Design Experience I	1
Total	10	24	Total	10	25
10001	Year of the Programme				
	Semester - V	· IIIIu I		Semester - VI	
S No	Name of the Course	Credits	S No	Name of the Course	Credits
1	Predictive Analysis	3		Deep Learning	3
2	Computer Networks	4	2	Program Elective - IV	3
3	Big Data Analytics	3	3	Program Elective - V	3
4	Program Elective - III	3	4	Open Elective - III	3
5	Quantum Machine Learning	3	5	Open Elective - IV	3
6	Open Elective - II	3	6	Management Accounting for Engineers	2
7	Design Experience II	2	7	Design Experience III	2
8	Responsible and Ethical AI	1	8	Agile Product Development with DevOps	2
			9	Interpersonal Skills	1
Total	8	22	Total	9	22
	Year of the Programme:	-		cademic Year 2028-29)	
	Semester - VII			Semester - VIII	
S. No	Name of the Course	Credits	S. No.	Name of the Course	Credits
1	Applied Time Series Analysis	3	1	Project	10
2	Natural Language Processing	3		· ·	
	Program Elective - VI	3			
3	Program Elective - VII	2			
3 4					
	Open Elective - V	3			
4		3 5			

Total | v
Total Credits for the Programme
Total no of courses