

Department of **Computer Science and Engineering**
M. Tech. in **Computer Science and Engineering**
with Specialization in **Data Analytics and Decision Sciences**

Semester I					
Sl. No.	Code	Course Name	Category	I-P	Credit
1	CS501T	Mathematical Foundations for Data Science	PEC	3-0	3
2	CS502T	Advanced Data Structures and Algorithms	PEC	3-0	3
3	CS503T	Principles of Data Analytics	PEC	3-0	3
4	CS504T	Statistical Learning	PEC	3-0	3
5	CS505I	Decision Sciences	PEC	2-2	3
6	CS5XXT	Elective-I	PEC	3-0	3
7	CS506I	Decision Sciences Practice	PEC	1-3	3
8	CS601	Seminar	PCD	0-3	2
Total					23
Semester II					
1	CS507T	Marketing Science and Predictive Analytics	PEC	3-0	3
2	CS508T	Advanced Decision Modelling Techniques	PEC	3-0	3
3	CS509T	Machine Learning	PEC	3-0	3
4	CS510I	Decision Support Systems	PEC	2-2	3
5	CS5XXT	Elective-II	PEC	3-0	3
6	CS5XXT	Elective-III	PEC	3-0	3
7	CS507P	Predictive Analytics Practice	PEC	0-3	2
8	CS509P	Machine Learning Practice	PEC	0-3	2
9	CS602	Comprehensive Viva-Voce	PCD	0-3	2
Total					24
Semester III					
1	CS603	Dissertation Work-I	PCD	0-25	10
Total					10
Semester IV					
1	CS604	Dissertation Work-II	PCD	0-25	20
Total					20

PEC: Professional Engineering Course
PCD: Professional Career Development

List of Electives					
Sl. No.	Code	Course Name	Category	I-P	Credit
1	CS511T	Data Mining	PEC	3-0	3
2	CS512T	Intelligent Systems	PEC	3-0	3
3	CS513T	Advanced Database Systems	PEC	3-0	3
4	CS514T	Artificial Intelligence	PEC	3-0	3
5	CS515T	Social Media and Networks Analytics	PEC	3-0	3
6	CS516T	Time Series Analysis	PEC	3-0	3
7	CS517T	Data Exploration and Visualization	PEC	3-0	3
8	CS518T	Game Theory	PEC	3-0	3
9	CS519T	Randomized and Approximation Algorithms	PEC	3-0	3
10	CS520T	Cloud Computing	PEC	3-0	3
11	CS521T	Big Data Processing	PEC	3-0	3
12	CS522T	Scalable Systems for Data Science	PEC	3-0	3
13	CS523T	Recommender Systems	PEC	3-0	3