

Semester – I							
Sr. No.	Course Code	Course Title	L	T	P	C	Marks
Core Course							
1	MSDS101	Mathematical Foundation for Data Science	4	1	0	5	150
2	MSDS102	Advanced Data Structures	3	0	1	4	150
3	MSDS103	Statistics for Data Science-I	3	1	1	5	100
4	MSDS104	R Programming	3	0	1	4	100
5	MSDS105	Object Oriented Programming/Advanced C	3	0	1	4	100
6	MSDS106	Internship – I	0	0	0	2	50
7	MSDS107	Comprehensive Viva-I	0	2	0	2	50
Total						25	700

Semester – II							
Sr. No.	Course Code	Course Title	L	T	P	C	Marks
A. Core Course							
1	MSDS201	Introduction to Database Management System	3	0	1	4	150
2	MSDS202	Fundamentals of AI & Machine Learning	3	0	2	5	150
3	MSDS203	Big-Data Processing	3	0	2	5	150
4	MSDS204	Numerical Methods for Data Science	3	0	1	4	150
5	MSDS205	Python Programming	3	0	1	4	100
6	MSDS206	Internship – II	0	0	0	2	50
7	MSDS207	Comprehensive Viva-II	0	2	0	2	50
Total						26	800

Semester – III							
Sr. No.	Course Code	Course Title	L	T	P	C	Marks
A. Core Course							
1	MSCM301	Optimization Techniques	3	1	0	4	100
2	MSCM302	Introduction to Deep Learning	3	0	2	5	150
3	MSCM303	Statistics for Data Science-II (Lab:R,Excel)	2	0	1	3	50
4	MSCM304	Interactive Data Analytics and Visualization	3	0	2	5	150
	MSDS305	Internship – III	0	0	2	2	50
	MSDS306	Dissertation-I	0	1	1	2	50
	MSDS307	Comprehensive Viva – voce	0	2	0	2	50
B. Elective Courses							
8	MSCM308	Computational Finance	3	0	1	4	100
9	MSCM309	Financial/ Business Data Analysis	3	0	1		
Total						27	700

Semester – IV							
Sr. No.	Course Code	Course Title	L	T	P	C	Marks
A. Core Course							
1	MSCM401	Computer Vision	3	0	1	4	150
2	MSCM402	Visual Text Analytics and Forecasting	3	0	1	4	150
3	MSCM403	Dissertation-II	0	3	1	4	100
4	MSCM404	Comprehensive Viva – voce	0	2	0	2	50
B. Elective Courses							
7	MSCM405	Data Mining	2	0	2	4	100
8	MSCM406	Cloud Computing	2	0	2		
9	MSCM407	Data Science Tools	2	0	2		
Total						18	550