

M.Sc. in Data Science (CBCS mode)

Sem	Course Code	Course Title	Credits	Counseling/PCP Hours	Max. Marks			Min. Passing Marks		Duration of Exam
					Internal Assessment	Term end exam	Total Marks	Internal Assessment	Term end exam	
I	MDDSC-1.1	Mathematical Foundations	4	12	20	80	100	08	32	3
	MDDSC-1.2	Programming with Python	4	12	20	80	100	08	32	3
	MDDSC-1.3	Mathematical Foundations Lab	2	60	10	40	50	04	16	3
	MDDSC-1.4	Programming with Python Lab	2	60	10	40	50	04	16	3
	MDDSE-1.5	Database Management System	3	09	20	80	100	08	32	3
	MDDSE-1.6	Data Structure								
	MDDSE-1.7	Operating System	3	09	20	80	100	08	32	3
	ELMD/ELMIT-01	Interdisciplinary Elective-1 Green Computing	2	06	10	40	50	04	16	1 ^{1/2}
Total			20	168	110	440	550	44	176	-

Note: Students are recommended to opt any TWO from MDDSE-1.5, MDDSE-1.6 OR MDDSE-1.7

Sem	Course Code	Course Title	Credits	Counseling/PCP Hours	Max. Marks			Min. Passing Marks		Duration of Exam
					Internal Assessment	Term end exam	Total Marks	Internal Assessment	Term end exam	
II	MDDSC-2.1	Foundations of Data Science	4	12	20	80	100	08	32	3
	MDDSC-2.2	Statistical Foundations and Inference	4	12	20	80	100	08	32	3
	MDDSC-2.3	Foundations of Data Science Lab	2	60	10	40	50	04	16	3
	MDDSC-2.4	Statistical Foundations and Inference Lab	2	60	10	40	50	04	16	3
	MDDSE-2.5	Data Mining and Data Warehousing	3	09	20	80	100	08	32	3
	MDDSE-2.6	Data Security and Privacy								
	MDDSE-2.7	Business Intelligence	3	09	20	80	100	08	32	3
	ELMD/ELMIT-02	Interdisciplinary Elective-2 E-commerce	2	06	10	40	50	04	16	1 ^{1/2}
Total			20	168	110	440	550	44	176	-

Note: Students are recommended to opt any TWO from MDDSE-2.5, MDDSE-2.6 OR MDDSE-2.7

Sem	Course Code	Course Title	Credits	Counseling/PCP Hours	Max. Marks			Min. Passing Marks		Duration of Exam
					Internal Assessment	Term end exam	Total Marks	Internal Assessment	Term end exam	
III	MDDSC-3.1	Artificial Intelligence	4	12	20	80	100	08	32	3
	MDDSC-3.2	Big Data Analytics	4	12	20	80	100	08	32	3
	MDDSC-3.3	Artificial Intelligence Lab	2	60	10	40	50	04	16	3
	MDDSC-3.4	Big Data Analytics Lab	2	60	10	40	50	04	16	3
	MDDSE-3.5	Cloud Computing	3	09	20	80	100	08	32	3
	MDDSE-3.6	Social Network Analysis								
	MDDSE-3.7	Internet of Things	3	09	20	80	100	08	32	3
	MDSEC-1	R Programming	2	06	10	40	50	04	16	1 ^{1/2}
Total			20	168	110	440	550	44	176	-

Note: Students are recommended to opt any TWO from MDDSE-3.5, MDDSE-3.6 OR MDDSE-3.7

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					Internal Assessment	Term end exam	Total Marks	Internal Assessment	Term end exam	
IV	MDDSC-4.1	Machine Learning.	4	12	20	80	100	08	32	3
	MDDSC-4.2	Managerial and Entrepreneurship for Data Scientist	3	09	20	80	100	08	32	3
	MDDSC-4.3	Machine Learning Lab	2	60	10	40	50	04	16	3
	MDDSC-4.4	Dissertation	8	240	30	120	150	12	48	3
	MDDSE-4.5	Deep Learning	3	09	20	80	100	08	32	3
	MDDSE-4.6	Predictive Analysis								
	MDSEC-2	Tableau	2	06	10	40	50	04	16	1 ^{1/2}
Total			22	336	110	440	550	44	176	-

Note: Students are recommended to opt any ONE from MDDSE-4.5 OR MDDSE-4.6
MDDSC-4.4- Dissertation/Project work (Implementation).

* Viva-voce is a compulsory component of Dissertation

DSC: Discipline Specific Core; DSE: Discipline Specific Elective; SEC: Skill Enhancement Course

Note: Course exemption- 40% marks including the Internal Assessment