

MAHAKAUSHAL

University



**Computer Science Syllabus &
Prescribed Books
Subject-M.SC Data Science**

Duration of Course: 2 Years

Examination 2021-22

I, II,III & IV Semeste

M.Sc. (Data Science) Scheme of Examination

IST SEMESTER

1. Course Code	: MDSC	5. Total Practical	2
2. Course Name	: M.Sc. DATA Science	6. Total Practical	100
3. Total Theory Subject	: 5	7. Total Marks	350
4. Total Theory Marks	: 250		

Sub. Code	Subject Name	Theory Max	Theory Min	CCE Max	CCE Min	Practical Max	Practical Min	Total Marks
MDSC0101-T	Discrete Mathematical Structure	42	15	8	3	0	0	50
MDSC0102-T	Operating system & system software	42	15	8	3	0	0	50
MDSC0102-P	Operating system & system software (Lab)	0	0	0	0	50	18	50
MDSC0103-T	Entrepreneurship Development	42	15	8	3	0	0	50
MDSC0104-T	Object oriented programming using C++	42	15	8	3	0	0	50
MDSC0104-P	Object oriented programming using C++ LAB	0	0	0	0	50	18	50
MDSC0105(A)-T	Computer organization & Architecture	42	15	8	3	0	0	50
MDSC0105(B)-T	Techniques Of Operation Research	42	15	8	3	0	0	50

M.Sc. (DATA Science) Scheme of Examination

IIND SEMESTER

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|-------------------------|----------------------|--------------------|-----|
| 1. Course Code | : MDSC | 5. Total Practical | 2 |
| 2. Course Name | : M.Sc. Data Science | 6. Total Practical | 100 |
| 3. Total Theory Subject | : 5 | 7. Total Marks | 350 |
| 8. Total Theory Marks | : 250 | | |

Sub. Code	Subject Name	Theory Max	Theory Min	CCE Max	CCE Min	Practical Max	Practical Min	Total Marks
MDSC0201-T	Advanced Machine Learning	42	15	8	3	0	0	50
MDSC0202-T	Database Management System	42	15	8	3	0	0	50
MDSC0202-P	Database Management System (Lab)	0	0	0	0	50	18	50
MDSC0203-T	Communication Skill	42	15	8	3	0	0	50
MDSC0204-T	Data Mining and data warehousing	42	15	8	3	0	0	50
MDSC0204-P	Data Mining and data warehousing (Lab)	0	0	0	0	50	18	50
MDSC0205(A)-T	Theory of Computation	42	15	8	3	0	0	50
MDSC0205(B)-T	Internet Programming	42	15	8	3	0	0	50

.MSc. (DATA Science) Scheme of Examination

IIIRD SEMESTER

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|-------------------------|----------------------|--------------------|-----|
| 1. Course Code | : MDSC | 5. Total Practical | 3 |
| 2. Course Name | : M.Sc. Data Science | 6. Total Practical | 150 |
| 3. Total Theory Subject | : 5 | 7. Total Marks | 400 |
| 8. Total Theory Marks | : 250 | | |

Sub. Code	Subject Name	Theory Max	Theory Min	CCE Max	CCE Min	Practical Max	Practical Min	Total Marks
MDSC0301-T	RDBMS and NOSQL	42	15	8	3	0	0	50
MDSC0301-P	RDBMS and NOSQL (Lab)	0	0	0	0	50	18	50
MDSC0302-T	Cloud native and development	42	15	8	3	0	0	50
MDSC0303-T	Big Data Technologies	42	15	8	3	0	0	50
MDSC0303-P	Big Data Technologies (Lab)	0	0	0	0	50	18	50
MDSC0304-T	Advanced java Programming	42	15	8	3	0	0	50
MDSC0304-P	Advanced java Programming (Lab)	0	0	0	0	50	18	50
MDSC0305-T(A)	Machine Learning	42	15	8	3	0	0	50
MDSC0305-T(B)	Cloud Computing	42	15	8	3	0	0	50

.MSc. (DATA Science) Scheme of Examination

IVth SEMESTER

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|-------------------------|----------------------|--------------------|-----|
| 1. Course Code | : MDSC | 5. Total Practical | 4 |
| 2. Course Name | : M.Sc. Data Science | 6. Total Practical | 250 |
| 3. Total Theory Subject | : 4 | 7. Total Marks | 450 |
| 8. Total Theory Marks | : 200 | | |

Sub. Code	Subject Name	Theory Max	Theory Min	CCE Max	CCE Min	Practical Max	Practical Min	Total Marks
MDSC0401-T	Adv. Statistical Model & Analysis	42	15	8	3	0	0	50
MDSC0401-P	Adv. Statistical Model & Analysis (Lab)	0	0	0	0	50	18	50
MDSC0402-T	Adv. Python for Spatial Analytics	42	15	8	3	0	0	50
MDSC0402-P	Adv. Python for Spatial Analytics (Lab)	0	0	0	0	50	18	50
MDSC0403-T	Programming in SAS for Analytics	42	15	8	3	0	0	50
MDSC0403-P	Programming in SAS for Analytics (Lab)	0	0	0	0	50	18	50
MDSC0404-T	Bayesian Statistics	42	15	8	3	0	0	50
MDSC0405-P	Major Project	0	0	0	0	100	50	100