

SCHEME OF CURRICULUM AND EVALUATION
M.SC. DATA ANALYTICS EGREE PROGRAM (ONLINE) 2025-26
FIRST SEMESTER

Sl. No	Course Code	Category	Course Titles	Credits	Total Hours	Lecture	Practical	CIA Max (min)	End Semester Max (Min)	Grand Total
1.	CDA25OCT01	CT	Statistics for Data Science	3	90	90	0	30	70(35)	100(50)
2.	CDA25OCT02	CT	Data Structures and Algorithms	4	120	90	30	30	70(35)	100(50)
3.	CDA25OCT03	CT	Data Science with R	4	120	90	30	30	70(35)	100(50)
4.	O0825ODE01	DE	Discipline Elective Course 1	4	120	90	30	30	70(35)	100(50)
5.	CDA25OCL01	CL	Advanced Python Programming	3	90	-	90	100(50)		100(50)
6.	O0825OSE01	SL	To be Chosen	2	60	-	60	100(50)	-	100(50)
			TOTAL	20	600	360	240			

SECOND SEMESTER

SL No	Course Code	Category	Course Titles	Credits	Total Hours	Lecture	Practical	CIA Max (min)	End Semester Max (Min)	Grand Total
7.	CDA25OCT04	CT	Advanced Statistics	3	90	90	0	30	70(35)	100(50)
8.	CDA25OCT05	CT	Advanced Database Management System	4	120	90	30	30	70(35)	100(50)
9.	CDA25OCT06	CT	Foundations of Data Analytics and Transformation Techniques	4	120	90	30	30	70(35)	100(50)
10.	O0825ODE02	DE	Discipline Elective Course 2	4	120	90	30	30	70(35)	100(50)
11.	O0825OGE01	GE	General Elective Course 1	3	90	90	0	100(50)	-	100(50)
12.	O0825OSE02	SL	To be Chosen	2	60	-	60	100(50)	-	100(50)
			TOTAL	20	600	450	150			

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M.Sc. DA ONLINE DEGREE PROGRAM (online) 2025-26
THIRD SEMESTER

SL No	Course Code	Category	Course Titles	Credits	Total Hours	Lecture	Practical	CIA Max (min)	End Semester Max (Min)	Grand Total
13.	CDA25OCT07	CT	Natural Language Processing	4	120	90	30	30	70(35)	100(50)
14.	CDA25OCT08	CT	Big Data Analytics and Hadoop Ecosystem	4	120	90	30	30	70(35)	100(50)
15.	CDA25OCT09	CT	Artificial Intelligence and Machine Learning Techniques	4	120	90	30	30	70(35)	100(50)
16.	O0825ODE03	DE	Discipline Elective Course 3	4	120	90	30	30	70(35)	100(50)
17.	CDA25OAE01	AE	Research Methodology	2	60	-	60	100(50)	-	100(50)
18.	O0825OSE03	SL	To be Chosen	2	60	-	60	100(50)	-	100(50)
			TOTAL	20	600					

FOURTH SEMESTER

SL No	Course Code	Category	Course Titles	Credits	Total Hours	Lecture	Practical	CIA Max (min)	End Semester Max (Min)	Grand Total
19.	CDA25OCT10	CT	Advanced Cloud Computing	4	120	90		30	70(35)	100(50)
20.	O0825ODE04	DE	Discipline Elective Course 4	4	120	90		30	70(35)	100(50)
21.	CDA25ORP01	RP	Research Project 1	12	360	-	360	100(50)		100(50)
			TOTAL	20	600					

S.NO	DISCIPLINE SPECIALISATION ELECTIVE COURSES		SKILL ENHANCEMENT COURSES	
1.	Ensemble Learning for Predictive Analytics	CDA25ODE01	Advanced Excel for Data Analytics	CDA25OSL01
2.	Time Series Analytics and Forecasting	CDA25ODE02	Tableau for Data Analysis	CDA25OSL02
3.	Computer Vision and Image Analytics	CDA25ODE03	Unix Shell Programming	CDA25OSL03
4.	Generative AI and Deep Learning Models	CDA25ODE04	Agile Methodologies for Project Management	CDA25OSL04
5.	Clinical Decision Support and Healthcare Analytics	CDA25ODE05	SQL: Advanced Concepts and Applications	CDA25OSL05
6.	Text Analytics	CDA25ODE06	Statistical Analysis using Jamovi	CDA25OSL06
7.	Reinforcement Learning for Artificial Intelligence	CDA25ODE07	Web Scraping with Python	CDA25OSL07
8.	Fundamentals of Cryptography and Network Security	CDA25ODE08	Pyspark for Big Data and Analytics	CDA25OSL08
9.	Internet of Things and Arduino Programming	CDA25ODE09	Microsoft Azure AI platform for AI based application development	CDA25OSL09
10.	Artificial Neural Network and Deep Learning	CDA25ODE10	Business Intelligence and Visualization with Power BI	CDA25OSL10