

----- Program Structure -----

B.Sc. (Data Science) SEMESTER I										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
U24/DS1ST1	Subject- 1	Statistics for Data Science	03	--	20	30	50	2	--	2
U24/DS1SP1		Practical Course based on Statistics for Data Science	--	04	20	30	50	-	2	2
U24/DS1ST2	Subject- 2	Python Programming-I	03	--	20	30	50	2	--	2
U24/DS1SP2		Practical Course based on Python Programming-I	--	04	20	30	50	-	2	2
U24/DS1ST3	Subject- 3	Website Designing Using HTML, CSS, Bootsrapp	03	--	20	30	50	2	--	2
U24/DS1SP3		Practical based on Website Designing using HTML, CSS, Bootsrapp		4	20	30	50		2	
U24/DS1OET1	GE/OE	From College Basket	--		50	-	50	2	-	2
U24/DS1SECT1	SEC	Computational Mathematics	04		20	30	50		2	2
U24/DS1IKST1	IKS	Indian Science, Engineering & Technology (Past, Present , Future)	20		50	-	50	2	-	2
U24/DS1AECT1	AEC	Language Communication-I	30		50	-	50	2	-	2
U24/DS1VECT1	VEC	Environmental Science-I	50		50	-	50	2	-	2
Total			24	12	220	330	550	16	6	22

B.Sc. (Data Science) SEMESTER II										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
U24/DS2ST1	Subject- 1	Mathematics for Data Science	2	-	20	30	50	2	-	12
U24/DS2SP1		Practical Course based on Mathematics for Data Science	-	4	20	30	50		2	
U24/DS2ST2	Subject- 2	Python Programming-II	2	-	20	30	50	2	-	
U24/DS2SP2		Practical Course based on Python Programming-II	-	4	20	30	50	-	2	
U24/DS2ST3	Subject- 3	Database Management System	2	-	20	30	50	2	-	
U24/DS2SP3		Practical Course based on Database Management System	-	4	20	30	50	-	2	
U24/DS2GOT1	GE/OE	From College Basket	-	4	50	-	50	2	2	2
U24/DS-2SECT1	SEC	Probability Distribution	-	4	20	30	50	-	2	2
U24/DS2AECT1	AEC	Language Communication- II	2	-	50	-	50	2	-	2
U24/VECT1	VEC	Environmental Science-II	2	-	50	-	50	2	-	2
U24/DS2CCT1	CC	Yoga Education-2/ NSS-2/ Health and Fine Arts-2/ Sports-2/Culture-2/NCC-2	2	-	50	-	50	2	-	2
Total			21	16	220	330	550	14	16	22

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B.Sc. (Data Science) SEMESTER III										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
U24/DS3MJCT1	Major Core	Fundamental of Data Science	3	--	20	30	50	2	--	2
U24/DS3MJCT2		Data Structure-I	3	--	20	30	50	2	--	2
U24/DS3MJCP1		Practical Course based on Data Structure-I	--	4	20	30	50	--	2	2
U24/DS3VSCT1	VSC	Inferential Statistics	3	--	20	30	50	2	--	2
U24/DS3FP	FP/CEP	Field Project	--	2	20	30	50	--	2	2
U24/DS3MNT1	Minor	Subject 2: Programming in JAVA-I Subject 3: Web Technology- I	3	-	20	30	50	2	-	2
U24/DS3MNP1		Subject 2:Practical Course based on Programming in JAVA-I Subject 3:Practical Course based on Web Technology-	-	4	20	30	50	-	2	2
U24/DS3OET1	GE/OE	From College Basket	3	--	20	30	50	2	--	2
U24/DS3IKST1	IKS	Computing in Ancient India	3	--	20	30	50	2	--	2
U24/DS3AECT1	AEC	Hindi-1/Marathi-1/Sanskrit-1	3	--	20	30	50	2	--	2
U24/DS3CCT1	CC	From College Basket	3	--	20	30	50	2	--	2
Total			24	10	220	330	550	16	6	22

B.Sc. (Data Science) SEMESTER IV										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
U24/DS4MJCT1	Major Core	Machine Learning – I	3	--				2	--	2
U24/DS4MJCT2		Data Structure - II	3	--	20	30	50	2	--	2
U24/DS4MJCP1		Practical Course based on Machine Learning-I	--	4	20	30	50	--	2	2
U24/DS4VSCT1	VSC	Practical Course based on Data Structure-II	--	4	20	30	50	--	2	2
U24/DS4CEP	FP/CEP	Community Engagement Program	-	2	20	30	50	-	2	2
U24/DS4MNT1	Minor	Subject 2:Programming in JAVA-II Subject 3: Web Technology-II	3	-	20	30	50	2	-	2
U24/DS4MNP1		Subject 2: Practical Course based on Programming in JAVA-II Subject 3: Practical Course based on Web Technology -II	-	-	20	30	50	-	2	2
U24/DS4OET1	GE/OE	From College Basket	--	4	20	30	50	--	2	2
U24/DS4SECT1	SEC	Categorical Data Analysis	3	--	20	30	50	2	--	2
U24/DS4AECT1	AEC	Hindi-2/Marathi-2/Sanskrit-2	3	--	20	30	50	2	--	2
U24/DS4CCT1	CC	From College Basket	3	--	20	30	50	2	--	2
Total			18	14	220	330	550	12	10	22

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B.Sc. (Data Science) SEMESTER V										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
2406MJCT501	Major Core	Machine Learning-II	3	--	20	30	50	2	--	2
2406MJCT502		No SQL Databases	3	--	20	30	50	2	--	2
2406MJCT503		Python Frameworks for Web Applications	3	--	20	30	50	2	--	2
2406MJCT504		Computer Networking	3	--	20	30	50	2	--	2
2406MJCP505		Practical Course based on Machine Learning-II	--	4	20	30	50	--	2	2
2406MJCP506		Practical Course based on Data Visualization tools	--	4	20	30	50	--	2	2
U24/DS-MNRT-507	Major Elective (Choose A or B)	A. Full Stack W eb Development -I B. Data Analytics using R	3	-	20	30	50	2	-	2
U24/DS-MNRP-508		A. Practical Course based on Full Stack Web Development B. Practical Course based on Data Analytics Using R	-	4	20	30	50	-	2	2
U24/DS-VSCP-509	VSC	Practical Course based on Python Framework for Web Applications	3	-	20	30	50	2	-	2
U24/DS-CEP-510	FP/CEP	Capstone Project Based on Data Science	-	2	20	30	50	-	2	2
U24/DS-MNRT-511	Minor	Subject 2:Object Oriented Software Engineering Subject 3 :Software Testing	3	-	20	30	50	2	-	2
Total			21	14	220	330	550	14	8	22

B.Sc. (Data Science) SEMESTER VI										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
U24/DS-MJCT-601	Major Core	Deep Learning - I	2	--	20	30	50	2	--	2
U24/DS-MJCT-602		Data Visualization tools	2	--	20	30	50	2	--	2
U24/DS-MJCT-603		Artificial Intelligence	2	--	20	30	50	2	--	2
U24/DS-MJCT-604		Data Security and Privacy	2	--	20	30	50	2	--	2
U24/DS-MJCP-605		Practical Course based on Deep Learning-I	--	4	20	30	50	--	2	2
U24/DS-MJCP-606		Practical Course based on No sql Databases	--	4	20	30	50	--	2	2
U24/DS-MNRT-607	Major Elective (Choose A or B)	A.Full Stack W eb Development - II B.HR and Financial Analytics	2	--	20	30	50	2	--	2
U24/DS-MNRP-608		A.Practical Course based on Full Stack Web Development-II B.Practical Course based HR and Financial Analytics	--	4	20	30	50	-	2	2
U24/DS-VSCP-609	VSC	Practical Course based on Artificial Intelligence	--	3	20	30	50	2	--	2
U24/DS-CEP-610	OJT	On Job Training	--	2	20	30	50	--	4	4
Total			10	17	220	330	550	12	10	22

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B.Sc. (Data Science) SEMESTER VII										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
U24/DS-MJCT-701	Major Core	Deep Learning - II	5	--	40	60	100	4	--	4
U24/DS-MJCT-702		Design and Analysis of Algorithm	5	--	40	60	100	4	--	4
U24/DS-MJCT-703		Cloud Computing	3	--	20	30	50	2	--	2
U24/DS-MJCT-704		Practical Course based on Deep Learning-II	--	4	20	30	50	--	2	2
U24/DS-MJCP-705		Practical course based on Design and Analysis of Algorithm	-	4	20	30	50	--	2	2
U24/DS-MJCP-706	Major Elective (Choose A or B)	A.Natural Language Processing B.Computer Vision	3	-	20	30	50	2	-	2
U24/DS-MNRT-707		A.Practical course based on Natural Language Processing B.Practical Course Based on Computer Vision	-	4	20	30	50	--	2	2
U24/DS-MNRP-708	RM	Research Methodology	5	-	20	30	50	4	-	4
Total			21	12	220	330	550	16	6	22

B.Sc. (Data Science) SEMESTER VIII										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
U24/DS-MJCT-801	Major Core	Deep Learning - II	5	--	40	60	100	4	--	4
U24/DS-MJCT-802		Design and Analysis of Algorithm	5	--	40	60	100	4	--	4
U24/DS-MJCT-803		Cloud Computing	3	--	20	30	50	2	--	2
U24/DS-MJCT-804		Practical Course based on Deep Learning-II	-	4	20	30	50	--	2	2
U24/DS-MJCP-805		Practical course based on Design and Analysis of Algorithm	--	4	20	30	50	--	2	2
U24/DS-MJCP-806	Major Elective (Choose A or B)	A.Natural Language Processing B.Computer Vision	5	-	20	30	50	2	-	2
U24/DS-MNRT-807A		A.Practical course based on Natural Language Processing B.Practical Course Based on Computer Vision	4	-	20	30	50	--	2	2
U24/DS-MNRP-808	RM	Research Methodology	-	2	20	30	50	-	4	4
Total			50		220	330	550	12	10	22