UG Scheme-2023 (NEP-2020)
B. Tech.in Data Science

Course Code	Name of Course	Course Category	Teaching Scheme				Credits	Evaluation Scheme					
								Theory			Practical		Total Marks
			L	T	P	Total Hours		TAE	CAE	ESE	INT	EXT	
SEMESTER-I													
23BTSHL102DS 23BTSHP102DS	Environmental Chemistry	BSC5	1	-	2	3	2	10	15	50	25	-	100
23BTSHL103DS	Matrices and Differential Calculus	BSC1	2	1	-	3	3	10	15	50	-	-	75
23BTSHL105DS	Linear Algebra and Statistics	BSC4	2	1	-	3	3	10	15	50	-	-	75
23BTSHP112DS	Liberal Learning Courses-I	CC1	-	-	4	4	2	-	-	-	25	25	50
23BTEEL101DS 23BTEEP101DS	Basic Electrical Engineering	ESC1	3	-	2	5	4	10	15	50	25	-	100
23BTECL101DS 23BTECP101DS	Digital Logic Design	ESC2	3	-	2	5	4	10	15	50	25	-	100
23BTDSL10X 23BTDSP10X	Elective -I : Vocational and Skill Enhancement	VSEC1	1	-	2	3	2	10	15		25	-	50
TOTAL			**12**	**2**	**12**	**26**	**20**	**60**	**90**	**250**	**125**	**25**	**550**

Course Code	Name of Course	Course Category	Teaching Scheme				Credits	Evaluation Scheme					
								Theory			Practical		Total Marks
			L	T	P	Total Hours		TAE	CAE	ESE	INT	EXT	
SEMESTER-II													
23BTSHL101DS 23BTSHP101DS	Engineering Physics	BSC2	1	1	2	4	3	10	15	50	25	-	100
23BTSHL104DS	Integral Calculus and Differential Equations	BSC3	2	1	-	3	3	10	15	50	-	-	75
23BTSHL108DS 23BTSHP108DS	Communication Skills	AEC1	1	-	2	3	2	10	15		25	-	50
23BTSHL10XDS	Elective : Indian Knowledge System	IKS	2	-	-	2	2	10	15	50			75
23BTSHP113DS	Liberal Learning Courses-II	CC2	-	-	4	4	2	-	-	-	25	25	50
23BTITL102DS 23BTITP102DS	Programming for Problem Solving	ESC3	3	-	2	5	4	10	15	50	25	-	100
23BTDSL101 23BTDSP101	Introduction to Data Science	PCC1	1	-	2	3	2	10	15	50	25	-	100
23BTDSL10X 23BTDSP10X	Elective –II: Vocational and Skill Enhancement	VSEC2	1	-	2	3	2	10	15		25	-	50
TOTAL			**11**	**2**	**14**	**27**	**20**	**70**	**105**	**250**	**150**	**25**	**600**

ELECTIVES

23BTSHL10XAI -Elective : Indian Knowledge System -

Course	Course Code (L)	Course Code(P)
Elective: IKS-1- Concepts and Applications inEngineering	23BTSHL109DS	Not Applicable
Elective: IKS-2- Social History of Medicine In Colonial India	23BTSHL110 DS	Not Applicable
Elective: IKS-3- Modern Indian Architecture	23BTSHL111 DS	Not Applicable
Elective: IKS-4- Introduction to Ancient Indian Technology	23BTSHL117 DS	Not Applicable
Elective: IKS-5- Introduction To Modern Indian Drama	23BTSHL118 DS	Not Applicable
Elective: IKS-6- Introduction To Indian Art - An Appreciation	**23BTSHL119** DS	Not Applicable
Elective: IKS-7- Folk And Minor Art In India	23BTSHL120 DS	Not Applicable

AI Board

Course	Course Code (L)	Course Code(P)
Elective -I : Vocational and Skill Enhancement -Data Visualization	23BTAIL102 DS	23BTAIP102 DS
Elective -I : Vocational and Skill Enhancement	23BTAIL103 DS	23BTAIP103 DS
Elective -I : Vocational and Skill Enhancement-	23BTAIL104 DS	23BTAIP104 DS
Elective –II: Vocational and Skill Enhancement-Artificial Intelligence with Python	23BTAIL105 DS	23BTAIP105 DS
Elective –II: Vocational and Skill Enhancement	23BTAIL106 DS	23BTAIP106 DS
Elective –II: Vocational and Skill Enhancement	23BTAIL107 DS	23BTAIP107 DS

CSE Board

Course	Course Code (L)	Course Code(P)
Elective -I : Vocational and Skill Enhancement -Computer Programming	23BTCSL102 DS	23BTCSP102 DS
Elective -I : Vocational and Skill Enhancement -	23BTCSL103 DS	23BTCSP103 DS
Elective -I : Vocational and Skill Enhancement -	23BTCSL104 DS	23BTCSP104 DS
Elective –II: Vocational and Skill Enhancement- Foundation of Data Analytics	23BTCSL105 DS	23BTCSP105 DS
Elective –II: Vocational and Skill Enhancement-	23BTCSL106 DS	23BTCSP106 DS
Elective –II: Vocational and Skill Enhancement-	23BTCSL107 DS	23BTCSP107 DS

IT Board

Course	Course Code (L)	Course Code(P)
Elective -I : Vocational and Skill Enhancement-Introduction to Linux	23BTITL103 DS	23BTITP103 DS
Elective -I : Vocational and Skill Enhancement-	23BTITL104DS	23BTITP104 DS
Elective -I : Vocational and Skill Enhancement-	23BTITL105 DS	23BTITP105 DS
Elective –II: Vocational and Skill Enhancement	23BTITL106 DS	23BTITP106 DS
Elective –II: Vocational and Skill Enhancement	23BTITL107 DS	23BTITP107 DS
Elective –II: Vocational and Skill Enhancement	23BTITL108 DS	23BTITP108 DS

DS Board

Course	Course Code (L)	Course Code(P)
Elective -I : Vocational and Skill Enhancement-Data Science Tools	23BTDSL102	23BTDSP102
Elective -I : Vocational and Skill Enhancement-	23BTDSL103	23BTDSP103
Elective -I : Vocational and Skill Enhancement-	23BTDSL104	23BTDSP104
Elective -II : Vocational and Skill Enhancement-Programming in C	23BTDSL105	23BTDSP105
Elective -II : Vocational and Skill Enhancement-	23BTDSL106	23BTDSP106
Elective -II : Vocational and Skill Enhancement-	23BTDSL107	23BTDSP107

CYB Board

Course	Course Code (L)	Course Code(P)
Elective -I :Vocational and Skill Enhancement -	23BTCYL102 DS	23BTCYP102 DS
Elective -I :Vocational and Skill Enhancement-	23BTCYL103 DS	23BTCYP103 DS
Elective -I :Vocational and Skill Enhancement-	23BTCYL104 DS	23BTCYP104 DS
Elective –II: Vocational and Skill Enhancement-Principle of Information Security	23BTCYL105 DS	23BTCYP105 DS
Elective –II: Vocational and Skill Enhancement	23BTCYL106 DS	23BTCYP106 DS
Elective –II: Vocational and Skill Enhancement-	23BTCYL107 DS	23BTCYP107 DS