

B.Sc. Data Science Course Structure under CBCS
(For the Candidates admitted on the Academic year 2019-2020 onwards)

Semester	Course Code	Part	Title of the course	Instru. Hours/ Week	Credit	Exam Hours	Marks		Total
							Int	Extn	
I	19T101	I	LC– I –Tamil	6	3	3	25	75	100
	19H101	II	E L C - I -English	6	3	3	25	75	100
	19DS101	III	Cc-I - Java Programming	6	5	3	25	75	100
	19DS102L		CC –II- Java Programming Lab	3	2	3	40	60	100
	19DS103a		AC –I – Statistics -I	4	4	3	25	75	100
	19DS104L		AC –IIa- R Programming Lab	3	-	-	-	-	-
	19VED	IV	VE- Value Education	2	2	3	25	75	100
		Total			30	19			600
II	19T202	I	LC-II- Tamil	6	3	3	25	75	100
	19H202	II	EL C – II - English	6	3	3	25	75	100
	19DS205	III	CC – III - Database Systems	5	5	3	25	75	100
	19DS206L		CC- IV - MySQL Lab	3	2	3	40	60	100
	19DS207A		AC – III - Statistics II	4	4	3	25	75	100
	19DS104L		AC –IIa - R Programming Lab	2	2	4	40	60	100
	19DXS21	IV	SKBC-I- Office Automation Lab	2	2	3	40	60	100
			SKBC –I – HTML Lab						
19EVS		Environmental Studies	2	2	3	25	75	100	
		Total			30	23			800
III	19T303	I	LC – III -Tamil	6	3	3	25	75	100
	19H303	II	ELC - III -English	6	3	3	25	75	100
	19DS308	III	CC – V -Python Programming and Data Structures		5	3	25	75	100
	19DS309L		CC-VI - Python Programming Lab	3	2	3	40	60	100
	19DS310A		AC – IV -Operations Research – I	4	4	3	25	75	100
	19DS311L		AC – Va -Mathematical Tool Lab	3	-	-	-	-	-
	19XDS21B	IV	SKBC – II -Shell Programming	2	2	3	40	60	100
	19XDS21A (IL		SKBC – II -Animation Lab						
	19GS		Gender Studies	0	1	3	25	75	100
				30	20			700	

IV	19T404	I	LC –IV –Tamil	6	3	3	25	75	100
	19H404	II	ELC–IV –English	6	3	3	25	75	100
	19DS412	III	CC – VII-Data Mining and Visualization	6	5	3	25	75	100
	19DS413L		CC – VIII- Data Mining and Visualization Lab	3	3	3	40	60	100
	19DS414A		AC–VI -Operations Research – II	4	4	3	25	75	100
	19DS311L		AC- Vb- Mathematical Tool Lab	3	3	3	40	60	100
	19DS4N	IV	NMEC –I -Fundamentals of Data Science	2	2	3	25	75	100
	19SSC		Soft Skills Course	0	2	3	25	75	100
				30	25				800
V	19DS513	III	CC IX - NoSQL Databases	6	5	3	25	75	100
	19DS514		CC X - Data Science for Business	6	5	3	25	75	100
	19DS515		CC-XI - Machine Learning	6	5	3	25	75	100
	19DS516L		CC XII - NoSQL Lab	4	4	3	40	60	100
	19DS517		EC-I-Genetic Algorithm/ Data Security	6	5	3	25	75	100
	19DS5N	IV	NMEC-II- Data Science for Entrepreneurship Development	2	2	3	25	75	100
				30	26				600
VI	19DS618	III	CC –XIII- Big Data Analytics	6	5	3	25	75	100
	19DS619		CC –XIV- Big Data Analytics Lab	4	4	3	40	60	100
	19DS620		CC –XV-Mini Project	6	5	3	40	60	100
	19DS621		EC –II- Simulation and Modeling /Data Warehouse Tools and Techniques	6	5	3	25	75	100
	19DS622		EC –III- Cloud Computing /Internet of things	6	5	3	25	75	100
	19E1	IV	Extension Activities	0	1	-	-	-	-
	19TSD		Technical Skill Development	2	2	-	-	-	-
				Total	30	27	-	-	-
			Grand Total	180	140	-	-	-	4000