



KAKATIYA UNIVERSITY, WARANGAL – 506 009

B.Sc. PROGRAMME Under CBCS System

Scheme with effect from Academic Year: 2022 – 2023

B.Sc. (DATA SCIENCE)

Year	Semester	Theory / Practical	Paper Title	Work Load (Hrs/Week)	# Credits	Marks		
I	FIRST	Paper – I (DSC – A)	Programming with C	4	4	100		
		<i>Practical - 1</i>	<i>Programming with C (Lab)</i>	<i>3</i>	<i>1</i>	<i>25</i>		
	SECOND	Paper – II (DSC – B)	Problem Solving and Python Programming	4	4	100		
		<i>Practical - 2</i>	<i>Problem Solving and Python Programming (Lab)</i>	<i>3</i>	<i>1</i>	<i>25</i>		
II	THIRD	SEC - 1	Mini Project - 1 (Lab)	2	2	50		
		SEC - 2	University Specified Course Bio Statistics (Taught by: Statistics)	2	2	50		
		Paper – III (DSC – C)	Data Engineering with Python	4	4	100		
		<i>Practical - 3</i>	<i>Data Engineering with Python (Lab)</i>	<i>3</i>	<i>1</i>	<i>25</i>		
	FOURTH	SEC – 3	Mini Project - 2 (Lab)	2	2	50		
		SEC – 4	University Specified Course Remedial Methods of Pollution – Drinking Water & Soil Fertility (Taught by: Chemistry)	2	2	50		
		Paper – IV (DSC – D)	Machine Learning	4	4	100		
		<i>Practical - 4</i>	<i>Machine Learning (Lab)</i>	<i>3</i>	<i>1</i>	<i>25</i>		
		III	FIFTH	Paper – V (A) (DSE – A)	Natural Language Processing	4	4	100
				Paper – V (B) (DSE – A)	No SQL Databases	4	4	100
<i>Practical – 5 (A)</i>	<i>Natural Language Processing (Lab)</i>			<i>3</i>	<i>1</i>	<i>25</i>		
<i>Practical – 5 (B)</i>	<i>No SQL Databases (Lab)</i>			<i>3</i>	<i>1</i>	<i>25</i>		
Paper VI - GE	Data Structures and Algorithms		4	4	100			
SIXTH	Paper – VII (A) (DSE – B)		Big Data	4	4	100		
	Paper – VII (B) (DSE – B)		Deep Learning	4	4	100		
	<i>Practical – 7 (A)</i>		<i>Big Data (Lab)</i>	<i>3</i>	<i>1</i>	<i>25</i>		
	<i>Practical – 7 (B)</i>	<i>Deep Learning (Lab)</i>	<i>3</i>	<i>1</i>	<i>25</i>			
		Paper VIII (Project)	Major Project	4	4	100		