

Degree : B.Sc COMPUTER SCIENCE WITH DATA ANALYTICS
 (For the students admitted from the Academic Year 2025 – 2026)

Scheme of Examination

Semester	Part	Type	Course Code	Title of the Course	Hours per week	Credits	Internal Marks	External Marks	Total Marks
I	I	Language	25ULT001 / 25ULH001 / 25ULF001 / 25ULM001	Tamil – I / Hindi – I / French – I / Malayalam – I	6	3	25	75	100
	II	English	25UEN101	Functional English – I	4	3	25	75	100
	III	Generic Core - 1	25BCS201	Computing Fundamentals and C Programming	4	4	25	75	100
	III	Generic Core - 2	25BAI202	Data Structures	5	4	25	75	100
	III	Allied - 1	25BDA701	Introduction to Linear Algebra	4	3	20	55	75
	III	Core Laboratory - 1	25BDA801	C Programming	4	3	30	45	75
	IV	Employability Skills - 1	25UES901	Communicative Skills	1	-	-	-	-
	IV	Ability Enhancement - 1	25UFC951	Environmental Studies	2	2	-	50	50
Total					30	22			600
	I	Language	25ULT002 / 25ULH002 / 25ULF002 / 25ULM002	Tamil – II / Hindi – II / French – II / Malayalam – II	6	3	25	75	100
	II	English	25UEN102	Functional English - II	4	3	25	75	100
	III	Generic Core - 3	25UCS203	Object Oriented Programming with	5	4	25	75	100

Semester	Part	Type	Course Code	Title of the Course	Hours per week	Credits	Internal Marks	External Marks	Total Marks
II				Java					
	III	Generic Core - 4	25BAI204	Digital Fundamentals and Computer Architecture	4	4	25	75	100
	III	Allied - 2	25BCS702	Discrete Mathematics	4	3	20	55	75
	III	Core Laboratory - 1	25BDA802	Java Programming	4	3	30	45	75
	IV	Skill Enhancement Practical 1 (Self Paced Learning)	25UCSSL1	Internet Basics	-	-	-	-	Grade
	IV	Employability Skills - 1	25UES901	Communicative Skills	1	2	25	25	50
	IV	Ability Enhancement - 2	25UFC952	Human Rights & Constitution of India	2	2	-	50	50
Total					30	24			650
III	I	Language	25ULT003 / 25ULH003 / 25ULF003 / 25ULM003	Tamil – III / Hindi – III / French – III / Malayalam – III	6	3	25	75	100
	II	English	25UEN103	Communicative English	4	3	25	75	100
	III	Generic Core - 5	25UCS205	Operating Systems	4	3	20	55	75
	III	Discipline Centric Core - 1	25BDA301	Python Programming	4	4	25	75	100
	III	Allied - 3	25BAI703	Computer Organization	4	3	20	55	75
	III	Core Laboratory - 3	25BDA803	Python Programming	4	3	30	45	75
	IV	Employability Skills - 2	25UES902	Problem Solving & Reasoning	2	-	-	-	-

Semester	Part	Type	Course Code	Title of the Course	Hours per week	Credits	Internal Marks	External Marks	Total Marks
	IV	Ability Enhancement - 3	25UFC953	Health and Wellness	1	1	25	-	25
	IV	Elective Foundation - 1	25UFC954 / 25UFC955 / 25UFC956 / 25UFC957	Basic Tamil – I / Advanced Tamil- I / Indian Knowledge System / General Awareness	1	1	-	25	25
Total					30	21			575
IV	I	Language	25ULT004 / 25ULH004 / 25ULF004 / 25ULM004	Tamil – IV / Hindi – IV / French – IV / Malayalam – IV	6	3	25	75	100
	II	English	25UEN104	Business English Communication	4	3	25	75	100
	III	Generic Core - 6	25UCS206	Relational Database Management Systems	4	3	20	55	75
	III	Discipline Centric Core - 2	25BDA302	R Programming	4	4	25	75	100
	III	Allied - 4	25BAI704	Business Analytics	4	3	20	55	75
	III	Discipline Laboratory - 1	25BDA821	R Programming	4	2	20	30	50
	IV	Skill Enhancement Practical 2 (Self Paced Learning)	25UCSSL2	MySQL/ MongoDB	-	-	-	-	Grade
	IV	Employability Skills - 2	25UES902	Problem Solving & Reasoning	2	2	25	25	50
	IV	Elective Foundation - 2	25UFC958 / 25UFC959 / 25UFC960 / 25UFC961 / 25UFC962	Basic Tamil-II / Advanced Tamil-II / Innovation & IPR / Women's Rights / Yoga for Human Excellence	2	2	-	50	50
Total					30	22			600

Semester	Part	Type	Course Code	Title of the Course	Hours per week	Credits	Internal Marks	External Marks	Total Marks
V	III	Generic Core - 7	25UCS207	Artificial Intelligence	4	3	20	55	75
	III	Discipline Centric Core - 3	25BDA303	Machine Learning	4	4	25	75	100
	III	Discipline Centric Core - 4	25BDA304	Big Data Analytics	4	4	25	75	100
	III	Generic Elective -1	25UCS401/ 25UCS402/ 25UCS403	Mobile Application Development /Human Computer Interaction / Virtual Reality & Augmented Reality	4	3	20	55	75
	III	Discipline Centric Elective -1	25BDA501/ 25BDA502/ 25BDA503/ 25BDA504	Text to Speech Analytics/ Domain Analytics /Data Science Laboratory /Capstone Project	4	4	25/ 40	75/ 60	100
	III	Open Elective	List Enclosed in Annexure -I		4	4	25	75	100
	III	Discipline Centric Laboratory - 2	25BDA822	Machine Learning	4	2	20	30	50
	III	Field Visit / Internship	25BDA871	Internship	-	2	20	30	50
IV	Employability Skills - 3	25UES903	Managerial Skills	2	2	25	25	50	
Total					30	28			700
	III	Generic Core - 8	25UCS208	Cloud Computing	6	3	20	55	75
	III	Discipline Centric Core - 5	25BDA305	Deep Learning	5	4	25	75	100

Semester	Part	Type	Course Code	Title of the Course	Hours per week	Credits	Internal Marks	External Marks	Total Marks
VI	III	Discipline Centric Elective - 2	25BDA505/ 25BDA506/ 25BDA507	Data Visualization /Social Network Analysis/ Computer Vision	5	4	25	75	100
	III	Discipline Centric Elective -3	25BDA508/ 25BDA509/ 25BDA510	IoT and its Applications/ Soft Computing/ Data Warehousing & Data Mining	5	4	25	75	100
	III	Discipline Centric Laboratory-3	25BDA823	Deep Learning	5	2	20	30	50
	III	Project	25BDA851	Project and Viva Voce	4	4	40	60	100
	IV	Skill Enhancement Practical 3 (Self Paced Learning)	25UCSSL3	Web Development/ Multimedia Tools	-	-	-	-	Grade
	V	Extension Activity	25UEX971/ 25UEX972/ 25UEX973	NSS / Sports / Club Activities	-	2	50	-	50
Total					30	23			575
Grand Total						140			3700

Note:

Candidates are expected to complete the self paced learning courses to earn their degree for which an evaluation will be conducted at the end of the semester. Grades will be awarded based on the evaluation.

Annexure -1

Candidates may chose any one of the open elective courses given below except their department course.

List of Open Electives offered

S. No	Offering Department	Course Code	Title of the Course
1	School of Liberal Arts - English	25BEL601	Creative Content Writing
2	School of Mathematics	25BMT601	Patterns and Logic in Everyday Life
3	School of Computer Studies (CS, CSDA)	25BCS601	Office Automation
4	School of Computer Studies (CS, CSDA)	25BDA601	Business Analytics with Python
5	School of Computer Studies (IT & AIML)	25BIT601	Web Application Development
6	School of Computer Studies (IT & AIML)	25BAI601	Fundamentals of Artificial Intelligence
7	School of Commerce	25BCM601	Fundamentals of Good and Services Tax
8	School of Commerce	25BBI601	Banking Operations
9	School of Applied Commerce - CA	25BCA601	Web Marketing
10	School of Applied Commerce - PA	25BPA601	Sales Promotion and Techniques
11	School of Management	25BBA601	Career Skills and Corporate Etiquette
12	School of Fashion	25BCF601	Beauty Care
13	School of Biotechnology	25BBT601	Organic Farming