

ALAGAPPA UNIVERSITY, KARAIKUDI
NEWSYLLABUS UNDER CBCSPATTERN (w.e.f. 2023-24)
B.Sc., Data Science (Programme Structure)

Sem.	Part	Course Code	Courses	Title of the Paper	T/P	Credit	Hours/Week	Max. Marks		
								Int.	Ext.	Total
I	I	2311T	T/OL	□ğ\$□ă□□nep□ug-I /Other Languages-I	T	3	6	25	75	100
	II	2312E	E	General English-I	T	3	6	25	75	100
	III	23BDS1C1	CC-I	Programming in C	T	4	5	25	75	100
		23BDS1P1	CC-II	Practical-Programming in C Lab	P	4	4	25	75	100
		--	Generic Elective (Allied)	Allied-I C Programming (for other departments)	T	3	3	25	75	100
				Allied I Practical C Programming Lab	P	2	2	25	75	100
	IV	23BDS1S1	SEC -I	Fundamentals of Information Technology	T	2	2	25	75	100
		23BDS1FC	Foundation Course-	Quantitative Aptitude	T	2	2	25	75	100
Total						23	30	200	600	800
II	I	2321T	T/OL	□ğ\$□ă□□nep□ug-2 /Other Languages-II	T	3	6	25	75	100
	II	2322E	E	General English-II	T	3	6	25	75	100
	III	23BDS2C1	CC-III	Python Programming	T	4	5	25	75	100
		23BDS2P1	CC-IV	Practical-Python Programming Lab	P	4	4	25	75	100
		--	Generic Elective (Allied)	Allied-II Office Automation (for other departments)	T	3	3	25	75	100
				Allied II Practical Office Automation Lab	P	2	2	25	75	100
	IV	23BDS2S1	SEC -II	Open Source Software Technologies	T	2	2	25	75	100
		23BDS2S2	SEC-III	Introduction to HTML	T	2	2	25	75	100
Naan Mudhalvan Course										
Total						23	30	200	600	800
III	I	2331T	T/OL	□g□ep□ugDhă huGD/ Other Languages-III	T	3	6	25	75	100
	II	2332E	E	General English-III	T	3	6	25	75	100
	III	23BDS3C1	CC-V	Data Science	T	4	5	25	75	100
		23BDS3P1	CC-VI	Data Science Lab	P	4	4	25	75	100
		--	Generic Elective (Allied)	Allied III Theory- Operations Research (for other departments)	T	3	3	25	75	100
				Allied III Practical-Operations Research Lab (for other departments)	P	2	2	25	75	100
23BDS3S1	SEC-IV	E-Commerce	T	2	2	25	75	100		
IV	233AT/ 23BDS3S2	SEC-V	Adipadai Tamil/ Enterprise Resource Planning	T	2	2	25	75	100	
Naan Mudhalvan Course										
Total						23	30	200	600	800

IV	I	2341T	T/OL	□ D	T	3	6	25	75	100
	II	2342E	E	General English–IV	T	3	6	25	75	100
	III	23BDS4C1	CC-VII	Object Oriented Programming With Java	T	4	4	25	75	100
		23BDS4P1	CC-VIII	Object Oriented Programming With Java Lab	P	3	3	25	75	100
		--	Generic Elective (Allied)	Allied–IV Theory Internet and Web Design	T	3	3	25	75	100
				Allied–IV Practical Internet and Web Design Lab	P	2	2	25	75	100
	IV	23BDS4S1	SEC-VI	Advanced Excel	T	2	2	25	75	100
		234AT/ 23BDS4S2	SEC-VII	Adipadai Tamil/PHP Programming	T	2	2	25	75	100
		23BES4	E.V.S	Environmental Studies	T	2	2	25	75	100
				Naan Mudhalvan Course						
			Total		24	30	225	675	900	

V	III	23BDS5C1	CC-IX	Relational Database Management System	T	4	5	25	75	100
		23BDS5P1	CC-X	RDBMS Lab using Oracle	T	4	5	25	75	100
		23BDS5C2	CC-XI	Machine Learning	T	4	5	25	75	100
		23BDS5P2	CC-XII	Machine Learning Lab	P	4	5	25	75	100
		23BDS5E1	DSE-I	Big Data Analytics	T	3	4	25	75	100
		23BDS5E2	DSE-II	Artificial Neural Networks	T	3	4	25	75	100
	IV	23BVE5		Value Education	T	2	2	25	75	100
		23BDS5I/ 23BDS5IV/ 23BDS5FV		Internship/Industrial Visit/Field Visit	PR	2	-	25	75	100
				Naan Mudhalvan Course						
			Total		26	30	200	600	800	
VI	III	23BDS6C1	CC-XIII	Artificial Intelligence	T	4	6	25	75	100
		23BDS6D	CC-XIV	Dissertation	PR	8	12	25	75	100
		23BDS6E1	DSE-III	Computing Intelligence	T	3	5	25	75	100
		23BDS6E2	DSE-IV	Analytics for Service Industry	T	3	5	25	75	100
	IV	23BDS6S1	PCS	Essential Reasoning and Quantitative Aptitude	T	2	2	25	75	100
V	23BEA6		Extension Activity	P	1	-	25	75	100	
			Naan Mudhalvan Course							
			Total		21	30	150	450	600	
			Grand Total		140	--	1175	3525	4700	

TOL-Tamil/Other Languages,

E – English

➤ CC-Co recourse

➤ Generic Elective(Allied)

➤ SEC-Skill Enhancement Course

➤ FC-Foundation Course

➤ DSE–Discipline Specific Elective

Allied Subjects offered by other departments to B.Sc. Data Science students

Semester I : Allied I: Theory : Numerical Methods with Applications

Allied I Practical: Numerical Methods with Applications Lab

Semester II: Allied II: Theory: Ancillary Mathematics – II Allied

II Practical: Ancillary Mathematics – II Lab

Semester III: Allied III: Theory: Statistics – I

Allied III: Practical: Statistics – I Lab

Semester IV: Allied IV: Theory: Statistics – II

Allied IV: Practical: Statistics – II Lab

Allied Subjects offered by B.Sc. Data Science department to other department students

Semester I : Allied I: Theory : Database Management System Allied

I Practical: Database Management System Lab

Semester II: Allied II: Theory: Office Automation Allied

II Practical: Office Automation Lab

Semester III: Allied III: Theory: Operations Research Allied

III: Practical: Operations Research Lab

Semester IV: Allied IV: Theory: Internet and Web Design

Allied IV: Practical: Internet and Web Design Lab

