FACULTY OF COMPUTER APPLICATIONS
Department of Computer Science & IT
Teaching Scheme Session 2023 - 2024

Program Name: Bachelor of Computer Application
Course: B.C.A. (Data Science)
YEAR/SEMESTER: I/I

S. No.	Subject Code	Subject Title	Credit
		Theory Papers	
1	CA101101	Fundamentals of Computer	3
2	CA101102	Computer Architecture	3
3	CA101103	C Programming	3
4	CA101104	Mathematics	3
5	CA101105	Web Development	3
6	CA101106	Effective Communication Skills-I	3
		Practical Papers	
1	CA101121	Office Tools Lab	2
2	CA101122	C Programming Lab	2
3	CA101123	Web Development Lab	2
4	SODECA	Social Outreach, Discipline & Extra Curricular Activities	1

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S. No.	Subject Code	Subject Title	Credit
		Theory Papers	
1	CA101201	Data Structures Algorithm	3
2	CA101202	OOPS Using Java	3
3	CA101203	Database Management System	3
4	CA101204	Digital Marketing	3
5	CA101205	Probability & Statistics	3
6	CA101206	Effective Communication Skills-II	3
		Practical Papers	
1	CA101221	Data Structure Lab	2
2	CA101222	OOPS with Java Lab	2
3	CA101223	DBMS Lab	2
4	SODECA	Social Outreach, Discipline & Extra Curricular Activities	1

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S. No.	Subject Code	Subject Title	Credit
		Theory Papers	
1	CA101301	Operating System	3
2	CA101302	Data Science-I (Data Analytics and Visualization)	3
3	CA101303	Data Science - II (Data Engineering)	3
4	CA101304	Python Programming	3
5	CA101305	Computer Network	3
6	HA101351	Professional English-I	2
		Practical Papers	
1	CA101321	DS-I Lab	2
2	CA101322	Computer Network Lab	2
3	CA101323	Python Lab	2
4	SODECA	Social Outreach, Discipline & Extra Curricular Activities	1

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S. No.	Subject Code	Subject Title	Credit
		Theory Papers	
1	CA101401	Data Science - III (Machine Learning Basics)	3
2	CA101402	Data Science - IV (AI & Deep Learning)	3
3	CA101403	Cloud Computing	3
4	CA101404.1	Cyber Security (Ethical Hacking)	3
	CA101404.2	Android Application Development-I	
5	CA101405	Competitive Coding	3
6	HA101451	Professional English- II	2
		Practical Papers	
1	CA101421	DS-III Lab	2
2	CA101422	DS-IV Lab	2
3	CA101423.1	Cyber-1 Lab	2
	CA101423.2	Android-1 Lab	
4	SODECA	Social Outreach, Discipline & Extra Curricular Activities	1

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YEAR/SEMESTER: III/V

S. No.	Subject Code	Subject Title	Credit
		Theory Papers	
1	CA101501	Block Chain Technology	3
2	CA101502	Data Science - V (Neural Networks)	3
3	CA101503	Software Project Management	3
4	CA101504.1	Cyber Forensic Investigation-II	3
	CA101504.2	Android Application Development-II	
5	HA101551	Professional English- III	2
		Practical Papers	
1	CA101521	DS-V Lab	2
2	CA101523.1	Cyber-II Lab	2
	CA101523.2	Android-II Lab	
3	CA1015PR	Minor Project	2
4	SODECA	Social Outreach, Discipline & Extra Curricular Activities	1

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S. No.	Subject Code	Subject Title	Credit
		Practical Papers	
1	CA1016PR	Major Project	8
2	SODECA	Social Outreach, Discipline & Extra Curricular Activities	1