

**B.Sc. IT Scheme of Curriculum
W.E.F:2022-2023**

Course Code	Course Name	L	T	P	CREDIT
Semester-I					
05070101	Programming In C	4	0	2	5
05070102	Computer Fundamental and Emerging Technology	4	0	2	5
05000103	Basic Mathematics -I	3	1	0	4
05000102	Environmental Science	3	0	0	3
05000101	Foundation course in English	3	0	0	3
	TOTAL	17	1	4	20
Semester-II					
05070201	Advanced C & Data Structure	4	0	2	5
05070202	Database Management System	4	0	2	5
05000203	Discrete Mathematics	3	1	0	4
05000201	Soft skill and Personality Development	3	0	0	3
05000202	Disaster management	3	0	0	3
	TOTAL	17	1	4	20
Semester-III					
05000301	Academic Writing	4	0	2	5
05070306	Internet And Web Technology	4	0	2	5
05070307	Object Oriented Programming with C++	4	0	2	5
05070308	Operating System	4	0	2	5
05070309	Web Programming using PHP	3	0	0	3
	Elective - I	3	0	0	3
05070310	Introduction to Artificial Intelligence				
05070311	Cyber Crime and Cyber Law				

05070312	Data Analytics and Visualization				
	TOTAL	22	0	8	26
Semester-IV					
05070401	Internet And Web Technology	4	0	2	5
05070402	Core Java Programming	4	0	2	5
05070403	Data Communicaton And Networks	4	0	2	5
05070404	Computer Oriented Architecture	4	0	0	4
05000401	Public speaking and Corporate communication	3	0	0	3
	Elective - II	3	0	2	4
05070409	Machine Learning Algorithms				
05070410	Penetration Testing Tools				
05070411	Data Warehousing and Mining Tools				
	TOTAL	22	0	8	26
Semester-V					
05070508	RDBMS & Advanced Database Administration	4	0	2	5
05070507	Python Programming	4	0	2	5
05070506	Software Engineering and UML	4	0	0	4
05070505	Cryptography and Network Security	4	0	2	5
	Elective - III	3	0	2	4
05070509	Open Source Machine Learning Tools				
05070511	Open Source Tools in Cyber Security				
05070513	Data Visualization Tools				
	Elective - IV	3	0	0	3
05070510	Deep Learning				
05070512	Cyber Forensics and Audit				
05070514	Big Data Analytics				
	TOTAL	22	0	8	26
Semester-VI					
05070603	Software Project Management	3	0	0	3
05070602	Project	0	0	-	12
	TOTAL	3	0	0	15