

JIIT NOIDA
Bachelor of Science (B. Sc.) (Honours / Honours with Research)
in
Computer Science program
(For students of 2024-28 and 2025-29 batches)

First Semester

S. N.	Course Code	Course	Contact hours				Credit
			L	T	P	Total	
1	22B21MA111	Major 1 (Introduction to Programming using C)	3	0	0	3	3
2	22B25MA111	Major 1 (Introduction to Programming using C-LAB)	0	0	4	4	2
3	22B21MA113	Minor 1 (Discrete Mathematical Structures)	3	1	0	4	4
4	23B21PH111	Multi-disciplinary-1 (Optics and Electromagnetism)	3	0	0	3	3
5	22B28HS111	AEC1 (English)	1	0	2	3	2
6	22B12HS111	SEC1 (Life Skills and Effective Communications)	2	0	2	4	3
7	22B28MA111	VAC1 (Multimedia and Animation Workshop)	1	0	2	3	2
8	23B66CS114	VAC2 (Introduction to Digital Technologies)	2	0	0	2	2
TOTAL			15	1	10	26	21

Second Semester

S. N.	Course Code	Course	Contact hours				Credit
			L	T	P	Total	
1	23B21MA111	Major 2 (Data Structures)	3	0	0	3	3
2	23B25MA111	Major 2 (Data Structures Lab)	0	0	4	4	2
3	23B21MA112	Minor 2 (Calculus)	3	1	0	4	4
4	23B21PH112	Multi-disciplinary-2 (Modern Physics)	3	0	0	3	3
5	23B12BT111	AEC2 (Environmental Science)	2	0	0	2	2
6	24B28MA111	SEC2 (Objected Oriented Programming using C++)	2	0	2	4	3
7	23B58CS125	VAC3 (Unix Workshop)	1	0	2	3	2
TOTAL			14	1	8	23	19

Third Semester

S. N.	Course Code	Course	Contact hours				Credit
			L	T	P	Total	
1	23B21MA211	Major 3 (Operating System)	3	1	0	4	4
2	23B25MA211	Major 3 (Operating System Lab)	0	0	2	2	1
3	22B21MA112	Major 4 (Computer System Architecture)	3	1	0	4	4
4	15B11MA302	Minor 3(Probability and Statistics)	3	1	0	4	4
5	20B11BMM12	Multi-disciplinary-3(Social Media & Digital Marketing)	3	0	0	3	3
6	23B21HS211	AEC3 (English Literature)	2	0	0	2	2
7	24B52CS231	SEC3 (Web Technologies)	2	0	2	4	3
TOTAL			16	3	4	23	21

Fourth Semester

S. N.	Course Code	Course	Contact hours				Credit
			L	T	P	Total	
1	24B51CS241	Major 5 (Open Source Programming)	3	0	0	3	3
2	24B55CS242	Major 5 (Open Source Programming-Lab)	0	0	2	2	1
3	24B51CS243	Major 6 (Data Base Management System)	3	1	0	4	4
4	24B55CS244	Major 6 (Data Base Management System-Lab)	0	0	2	2	1
5	24B21MA211	Major 7 (Design and Analysis of Algorithms)	3	0	0	3	3
6	24B25MA211	Major 7 (Design and Analysis of Algorithms-Lab)	0	0	2	2	1
7	24B21MA212	Minor 4 (Linear Algebra)	3	1	0	4	4
8	24B21HS211	AEC4 (Sustainable Development)	2	0	0	2	2
TOTAL			14	2	6	22	19

Fifth Semester

S. N.	Course Code	Course	Contact hours				Credit
			L	T	P	Total	
1	24B51CS351	Major 10 (Artificial Intelligence and Machine Learning)	3	0	0	3	3
2	24B55CS352	Major 10 (Artificial Intelligence and Machine Learning -Lab)	0	0	2	2	1
3	24B51CS353	Major 11 (Distributed and Parallel Computing)	3	0	0	3	3
4	24B51CS354	Major 12 (Computer Networks)	3	1	0	4	4
5	24B55CS355	Major 12 (Computer Networks-Lab)	0	0	2	2	1
6	24B21MA311	Minor 5 (Number Theory and Cryptography)	3	1	0	4	4
7	24B27MA311	Summer Internship	0	0	8	8	4
		TOTAL	12	2	12	26	20

Sixth Semester

S. N.	Course Code	Course	Contact hours				Credit
			L	T	P	Total	
1	25B51CS361	Major 13 (Cloud Computing)	3	0	0	3	3
2	25B55CS362	Major 13 (Cloud Computing-Lab)	0	0	2	2	1
3	24B21MA313	Major 14(Fundamentals of Soft Computing)	3	1	0	4	4
4	25B51CS363	Major 15 (Java Programming)	3	0	0	3	3
5	25B55CS364	Major 15 (Java Programming-Lab)	0	0	2	2	1
6	25B51CS365	Major 16 (Software Engineering)	3	0	0	3	3
7	25B55CS366	Major 16 (Software Engineering-Lab)	0	0	2	2	1
8	24B21MA312	Minor 6 (Operations Research)	3	1	0	4	4
		TOTAL	15	2	6	23	20

Total Credits:**120**

Seventh Semester

S. N.	Course Code	Course	Contact hours				Credit
			L	T	P	Total	
1	XXXXXXXXXX	Major 15 (Introduction to Deep Learning)	3	1	0	4	4
2	XXXXXXXXXX	Major 16 (Research Methodology)	3	1	0	4	4
3	XXXXXXXXXX	Major 17 (Internet of Things: Design and Development)	3	0	0	3	3
4	XXXXXXXXXX	Major 17 (Internet of Things: Design and Development-Lab)	0	0	2	2	1
5	XXXXXXXXXX	Major 18 (Computer Security)	3	0	0	3	3
6	XXXXXXXXXX	Major 18 (Computer Security-Lab)	0	0	2	2	1
7	XXXXXXXXXX	Minor 7 (Numerical Techniques)	3	0	0	3	3
8	XXXXXXXXXX	Minor 7 (Numerical Techniques-Lab)	0	0	2	2	1
		TOTAL	15	2	6	23	20

Eighth Semester

S. N.	Course Code	Course	Contact hours				Credit
			L	T	P	Total	
1	XXXXXXXXXX	Major 19 (Introduction to Blockchain Technologies)	3	1	0	4	4
2	XXXXXXXXXX	Minor 8 (Data Science)	3	1	0	4	4
3	XXXXXXXXXX	Dissertation	0	0	24	24	12
		TOTAL	6	2	24	32	20

Total Credits: 160