

ANNEXURE-II
Indrashil University
School of Engineering
Computer Science & Engineering Department
B.Sc. IT (Information Technology)
(Effective from 2023-2024)

Semester-1	Minimum Semester Credit Required: 22		
	Cumulative Semester Credit Required: 22		
Course Code	Subject Name	L-T-P	Credits
BIT-101	Computer Fundamentals and IT	3-0-0	3
BIT-102	Programming Concepts Using C Language	3-0-4	5
BIT-103	Mathematical Foundation of Computer Science	3-1-0	4
BIT-104	Web Designing	3-0-2	4
BIT-105	Communication and Soft Skills	3-0-0	3
BIT-106	PC Packages Lab (DOS & MS Office, Excel, PowerPoint)	0-0-4	2
BIT-107	Seminar	0-0-1	1
		15-1-11	22

Semester-2	Minimum Semester Credit Required: 20		
	Cumulative Semester Credit Required: 42		
Course Code	Subject Name	L-T-P	Credits
BIT-201	Data Structures	3-0-2	4
BIT-202	Data Base Management System	3-0-2	4
BIT-203	Object Oriented Programming using Java	3-0-2	4
BIT-204	Principles of Management	3-0-0	3
BIT-205	Environment Studies	2-0-0	2
BIT-206	Multimedia Technology and Applications	0-0-4	2
BIT-207	Seminar	0-0-1	1
		14-0-11	20

Semester-3	Minimum Semester Credit Required: 20		
	Cumulative Semester Credit Required: 62		
Course Code	Subject Name	L-T-P	Credits
BIT-301	Python Programming	3-0-2	4
BIT-302	Digital Electronics	3-0-0	3
BIT-303	Operating System	3-0-2	4
BIT-304	Mobile Application Development using Android	3-0-2	4
BIT-305	Computer Network	3-0-2	4
BIT-306	Mini Project-1	0-0-1	1
		15-0-9	20

Semester-4	Minimum Semester Credit Required: 20 Cumulative Semester Credit Required: 82		
Course Code	Subject Name	L-T-P	Credits
BIT-401	Computer Organization & Architecture	3-0-0	3
BIT-402	Software Engineering	3-0-2	4
BIT-403	Foundation of Machine Learning	3-0-2	4
BIT-404	Frontend Technologies	3-0-2	4
BIT-405	Cyber Security	3-0-2	4
BIT-406	Mini Project-2	0-0-1	1
		15-0-9	20

Semester-5	Minimum Semester Credit Required: 22 Cumulative Semester Credit Required: 104		
Course Code	Subject Name	L-T-P	Credits
BIT-501	Data Science	3-0-2	4
BIT-502	Elective-1 (1.1)	3-0-2	4
BIT-503	Elective-1 (1.2)	3-0-2	4
BIT-504	Elective-2 (2.1)	3-0-2	4
BIT-505	Elective-2 (2.2)	3-0-2	4
BIT-506	Mini Project-3	0-0-1	2
		15-0-11	22

Semester-6	Minimum Semester Credit Required: 20 Cumulative Semester Credit Required: 124		
Course Code	Subject Name	L-T-P	Credits
BIT-601	Major Project / Internship	0-0-20	20
		0-0-20	20

Note: L- Lecture, T-Tutorial, P-Practical/Project, C-Credit

Elective-1	Elective-2
Cloud Computing	Artificial Intelligent and Machine Learning
1.1 AWS Cloud Practitioner	2.1 Data Analysis and Interpretation
1.2 AWS Cloud Solution Architect	2.2 Deep Learning
or	or
Internet of Things	Blockchain
1.1 Introduction to the Internet of Things	2.1 Cryptocurrency & Blockchain
1.2 IOT Data Storage & Retrieval, Security	2.2 Bitcoin Mining