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Indrashil University
School of Engineering
Department of Computer Science & Engineering
Bachelor of Computer Application (BCA)
(Effective from 2023-2024)

Semester-1	Minimum Semester Credit Required : 18 Cumulative Semester Credit Required : 18		
Course code	Subject Name	L-T- P	Credits
BCA-101	Communicative English	3-0-0	3
BCA-102	Programming in C	3-0-2	4
BCA-103	Basic of web designing	3-0-2	4
BCA-104	Office Automation	3-0-2	4
BCA-105 A	Generic Elective Course-1 Computer Fundamentals	3-0-0	3
BCA-105 B	Or Computer Hardware and Troubleshooting	3-0-0	
Total			18

Semester-2	Minimum Semester Credit Required : 19 Cumulative Semester Credit Required : 37		
Course code	Subject Name	L-T- P	Credits
BCA-201	Foundation of Mathematics	3-1-0	4
BCA-202	Data Structure	3-0-2	4
BCA-203	Database Management system	3-0-2	4
BCA-204	Object Oriented programming using C++	3-0-2	4
BCA-205 A	Generic Elective Course-2 E-Commerce	3-0-0	3
BCA-205 B	Or Digital Marketing	3-0-0	
Total			19

Semester-3	Minimum Semester Credit Required : 20 Cumulative Semester Credit Required : 57		
Course code	Subject Name	L-T- P	Credits
BCA-301	Operating system	3-0-2	4
BCA-302	Core Java	3-0-2	4
BCA-303	Software Engineering	3-0-2	4
BCA-304	Computer organization & architecture	3-0-0	3
BCA-305 A	Discipline Specific Elective Course-1 Programming using ASP.Net	3-1-2	5
BCA-305 B	Or PHP-Programming	3-1-2	
Total			20

Semester-4	Minimum Semester Credit Required : 18 Cumulative Semester Credit Required : 75		
Course code	Subject Name	L-T- P	Credits
BCA-401	Computer Network	3-0-2	4
BCA-402	Python	3-0-2	4
BCA-403	Cyber Security	3-0-2	4
BCA-404	Fundamental of AI & ML	3-0-0	3
BCA-405 A	Discipline Specific Elective Course-2 Information Security- Cryptography Or Cloud Computing	3-0-0	3
BCA-405 B			
Total			18
Semester-5	Minimum Semester Credit Required : 19 Cumulative Semester Credit Required : 94		
Course code	Subject Name	L-T- P	Credits
BCA-501	Data Science	3-0-2	4
BCA-502	Internet of Things	3-0-2	4
BCA-503	Software Project Management	3-0-0	3
BCA-504	Skill Development - Computer Hardware	0-0-2	2
BCA-505P	Minor Project	0-0-4	4
Total			19

Semester-6	Minimum Semester Credit Required : 26 Cumulative Semester Credit Required : 120		
Course code	Subject Name	L-T- P	Credits
BCA-601P	Major Project / Internship	0-0-26	26
Total			26

There shall be compulsory summer training at the end of the Second Semester in the concerned industry for 6 to 8 weeks as decided by the Dean of the Faculty of Technology and Engineering.

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