

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

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

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

<b>Semester-3</b>	<b>Minimum Semester Credit Required: 19</b>		
	<b>Cumulative Semester Credit Required: 61</b>		
<b>Course Code</b>	<b>Subject Name</b>	<b>L-T-P</b>	<b>Credits</b>
BCA-301	Python Programming	3-0-2	4
BCA-302	Digital Marketing	3-0-0	3
BCA-303	Programming in PHP	3-0-2	4
BCA-304	Computer Organization & Architecture	3-0-0	3
BCA-305	Computer Network	3-0-2	4
BCA-306	Seminar	0-0-1	1
		<b>15-0-7</b>	<b>19</b>

<b>Semester-4</b>	<b>Minimum Semester Credit Required: 19</b>		
	<b>Cumulative Semester Credit Required: 80</b>		
<b>Course Code</b>	<b>Subject Name</b>	<b>L-T-P</b>	<b>Credits</b>
BCA-401	Programming in ASP.Net	3-0-2	4

BCA-402	Software Engineering	3-0-2	4
BCA-403	Website Designing (Laravel / Joomla/ Drupal)	0-0-4	2
BCA-404	Foundation of Machine Learning	3-0-2	4
BCA-405	Cyber Security	3-0-2	4
BCA-406	Seminar	0-0-1	1
		<b>12-0-13</b>	<b>19</b>

<b>Semester-5</b>	<b>Minimum Semester Credit Required: 21 Cumulative Semester Credit Required: 101</b>		
<b>Course Code</b>	<b>Subject Name</b>	<b>L-T-P</b>	<b>Credits</b>
BCA-501	Artificial Intelligent	3-0-2	4
BCA-502	Elective-1 (1.1)	3-0-2	4
BCA-503	Elective-1 (1.2)	3-0-2	4
BCA-504	Elective-2 (2.1)	3-0-2	4
BCA-506	Elective-2 (2.2)	3-0-2	4
BCA-505	Minor Project	0-0-1	1
		<b>15-0-11</b>	<b>21</b>

<b>Semester-6</b>	<b>Minimum Semester Credit Required: 20 Cumulative Semester Credit Required: 121</b>		
<b>Course Code</b>	<b>Subject Name</b>	<b>L-T-P</b>	<b>Credits</b>
BCA-601	Major Project / Internship	0-0-20	20
		<b>0-0-20</b>	<b>20</b>

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

<b>Elective-1</b>	<b>Elective-2</b>
<b>Cloud Computing</b>	<b>Full Stack Development</b>
1.1 AWS Cloud Practitioner	2.1 Angular JS, Node JS
1.2 AWS Cloud Solution Architect	2.2 Express JS, React JS, Mongo DB
<b>or</b>	<b>or</b>
<b>Data Science &amp; Analytics</b>	<b>Multimedia</b>
1.1 Machine Learning for Data Analysis	2.1 Augmented and Virtual Reality
1.2 Applied Data Science using Python	2.2 Program in Mobile Game Design & Integration