

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

<b>Semester: 1</b>	<b>Minimum Semester Credit Required: 23</b> <b>Cumulative Semester Credit Required: 23</b>		
<b>Course Code</b>	<b>Subject Name</b>	<b>L-T-P</b>	<b>Credits</b>
TBI 101	Computer Fundamentals and IT	4-0-0	4
TBI 102	Programming Concepts Using C Language	4-0-4	6
TBI 103	Mathematical Foundation of Computer Science	3-1-0	4
TBI 104	Principles of Management	3-0-0	3
TBI 105	Communication and Soft Skills	3-0-0	3
PBI 101	PC Packages Lab (DOS & MS Office, Excel, PowerPoint)	0-0-4	2
SBI 101	Seminar	0-0-1	1
	<b>Total</b>	<b>17-1-9</b>	<b>23</b>
<b>Semester: 2</b>	<b>Minimum Semester Credit Required: 28</b> <b>Cumulative Semester Credit Required: 51</b>		
TBI 201	Data Structures	4-0-2	5
TBI 202	Digital Electronics	3-0-0	3
TBI 203	Object Oriented Programming	4-0-4	6
TBI 204	Discrete Mathematics	3-1-0	4
TBI 205	Web Designing	4-0-4	6
TEV 211	Environment Studies	2-0-0	2
SBI 201	Seminar	0-0-1	1
	<b>Total</b>	<b>20-1-11</b>	<b>27</b>
<b>Semester: 3</b>	<b>Minimum Semester Credit Required: 25</b> <b>Cumulative Semester Credit Required: 76</b>		
TBI 301	Database Management System	4-0-2	5
TBI 302	Computer Organization and Architecture	3-1-0	4
TBI 303	Python Programming	4-0-4	6
TBI 304	Software Engineering	4-0-2	5
TBI 305	Multimedia Technology and Applications	3-0-2	4
SBI 301	Seminar	0-0-1	1
	<b>Total</b>	<b>18-1-11</b>	<b>25</b>
<b>Semester: 4</b>	<b>Minimum Semester Credit Required: 23</b> <b>Cumulative Semester Credit Required: 99</b>		
TBI 401	Operating Systems	4-0-2	5
TBI 402	Frontend Technologies	4-0-4	6
TBI 403	Computer Networks	4-0-2	5
TBI 404	Mobile Application Development using Android	4-0-4	6
SBI 401	Seminar	0-0-1	1
	<b>Total</b>	<b>16-0-13</b>	<b>23</b>
<b>Semester: 5</b>	<b>Minimum Semester Credit Required: 19</b> <b>Cumulative Semester Credit Required: 118</b>		
TBI 501	Cloud Computing	3-0-4	5
TBI 502	Cryptography and Network Security	3-0-2	4

TBI 503	Foundation of Machine Learning	3-0-4	5
TBI 504	Cyber Security	3-0-2	4
SBI 501	Seminar	0-0-1	1
	<b>Total</b>	<b>12-0-13</b>	<b>19</b>
<b>Semester: 6</b>	<b>Minimum Semester Credit Required: 15</b> <b>Cumulative Semester Credit Required: 133</b>		
BIP 601	INDUSTRIAL PROJECT/Major Project / Internship	0-0-30	15
	<b>Total</b>	<b>0-0-30</b>	<b>15</b>

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