



# BCA Curriculum

## Semester - I

Course Title	Area	L	T	P	Credits
Digital Computer Architecture	Computer	3	0	0	3
Programming Concepts and Algorithms	Computer	2	0	0	2
Web Design and Programming Concepts	Computer	1	0	0	1
Computer Networks - I	Computer	3	0	0	3
Introduction to Computers	Computer	1	0	2	2
Foundation Course in Mathematics	ID	3	0	0	3
Basics of Communication	ID	2	0	0	2
Applications of Programming Concepts and Algorithms	Computer	0	0	6	3
Applications of Web Design and Programming Concepts	Computer	0	0	6	3
<b>Total Credits</b>					<b>22</b>

## Semester - II

Course Title	Area	L	T	P	Credits
Object Oriented Programming	Computer	2	0	0	2
Database Management Concepts	Computer	2	0	0	2
Open Source Development Concepts	Computer	2	0	0	2
Elementary Calculus and Discrete Mathematics	ID	3	0	0	3
Environmental Science	ID	3	0	0	3
Technical Writing Skills	ID	2	0	0	2
Applications of Object Oriented Programming	Computer	0	0	4	2
Applications of Database Management Concepts	Computer	0	0	4	2
Applications of Open Source Development Concepts	Computer	0	0	4	2
Interdisciplinary course	ID	2	0	0	2
<b>Total Credits</b>					<b>22</b>

**4 weeks summer social internship of 2 credits after semester - II**

<b>Semester - III</b>					
<b>Course Title</b>	<b>Area</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
.NET Technologies	Computer	2	0	0	2
Computer Networks - II	Computer	3	0	0	3
RDBMS	Computer	2	0	0	2
Data Structures and Algorithms	Computer	3	0	0	3
Software Engineering	Computer	3	0	0	3
Presentation Skills	ID	2	0	0	2
Applications of .NET Technologies	Computer	0	0	4	2
Applications of RDBMS	Computer	0	0	4	2
Applications of Data Structures and Algorithms	Computer	0	0	2	1
Interdisciplinary course	ID	2	0	0	2
<b>Total Credits</b>					<b>22</b>

<b>Semester - IV</b>					
<b>Course Title</b>	<b>Area</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
Web Development with .NET	Computer	2	0	0	2
J2EE Technologies	Computer	2	0	0	2
Object Oriented Analysis and Design	Computer	3	0	0	3
Advanced Web Technologies	Computer	2	0	0	2
Entrepreneurship	ID	2	0	0	2
Applications of Web Development with .NET	Computer	0	0	6	3
Applications of J2EE Technologies	Computer	0	0	6	3
Applications of Object Oriented Analysis and Design	Computer	0	1	2	2
Applications of Advanced Web Technologies	Computer	0	0	6	3
<b>Total Credits</b>					<b>22</b>

**4 weeks corporate internship after of 2 credits after semester – IV**

<b>Semester - V</b>					
<b>Course Title</b>	<b>Area</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
Android Technologies	Computer	2	0	0	2
Software Testing Basics	Computer	2	0	0	2
Management Information Systems	Computer	3	0	0	3
Operating System Concepts	Computer	3	0	0	3
Cloud Computing	Computer	2	0	2	3
Computer Graphics & Image Processing	Computer	3	0	0	3
Applications of Android Technologies	Computer	0	0	4	2
Applications of Software Testing Basics	Computer	0	0	2	1
In house Project	Computer	0	0	10	5
Khoj	ID	3	0	0	3
<b>Total Credits</b>					<b>27</b>

<b>Semester - VI</b>					
<b>Course Title</b>	<b>Area</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
Industrial Project	Computer	0	0	32	16
<b>Total Credits</b>					<b>16</b>