

**BIRLA INSTITUTE OF TECHNOLOGY MESRA, RANCHI**

**BCA COURSE STRUCTURES**

**SEMESTER I**

<b>Course Name</b>
BCA1001 Mathematics-I
BCA1002 Introduction to Computer Science
BCA1003 Programming in C
BCA1004 Environmental Science
BCA1005 Communication Skills/ Technical English
BCA1006 C Programming Lab
BCA1007 IT Lab

**SEMESTER II**

<b>Course Name</b>
BCA2001 Mathematics –II
BCA2002 Data structure & C++
BCA2003 Data base Management System
BCA2004 Linux Programming
BCA2005 Managerial Economics
BCA2006 Data Structure Lab
BCA2007 Database Lab

**SEMESTER III**

<b>Course Name</b>
BCA3001 Probability and Statistics
BCA3002 Logic Design
BCA3003 Electronic Commerce and Applications
BCA3004 Programming in JAVA
BCA3005 Programming in Visual Basic
BCA3006 JAVA Programming Lab
BCA3007 VB Programming Lab

#### SEMESTER IV

Course Name
BCA4001 Scientific Computing
BCA4002 Operating Systems
BCA4003 Software Engineering Principles
BCA4004 Computer Architecture and Programming
BCA4005 Computer Graphics and Multimedia
BCA4006 Scientific Computing Lab
BCA4007 Computer Graphics Lab

#### SEMESTER V

Course Name
BCA5001 Internet & Web Technology
BCA5002 Advanced Database Management System
BCA5003 Fundamentals of Computer Algorithm
BCA5004 Fuzzy Logic and Applications
BCA5005 Management Information System
BCA5006 Internet & Web Technology Lab
BCA5007 Advanced Database Lab

#### SEMESTER VI

Course Name
BCA6001 Data Communication & Computer Network
BCA6002 Distributed Computing
BCA6003 Optimization Theory
BCA6004 Accounting and Finance Management
BCA6005 Elective
BCA6006 Project