**Scheme of Study**

**BCA- Semester I**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S. No.** | **Course Code** | **Course Title** | **L** | **T** | **P** | **Hours** | **Credits** |
| 1 | 15EN1101 | Rudiments of Communication Skills | 0 | 0 | 4 | 4 | 2 |
| 2 | 15MT1105 | Fundamentals of Mathematics | 3 | 0 | 2 | 5 | 4 |
| 3 | 15GN1001 | Ecology and Environment | 2 | 0 | 0 | 2 | 2 |
| 4 | 15CA1101 | Computer Fundamentals & Computer Organization | 3 | 0 | 2 | 5 | 4 |
| 5 | 15CA1102 | Programming in C | 2 | 2 | 2 | 6 | 4 |
| 6 | 15CA1103 | Linux Programming | 2 | 2 | 2 | 6 | 4 |
| **Total** | | | | | | 28 | 20 |

Credits-20

**BCA- Semester II**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S. No** | **Course Code** | **Course Title** | **L** | **T** | **P** | **Hours** | **Credits** |
| 1 | 15EN1202 | Interpersonal Communication Skills | 0 | 0 | 4 | 4 | 2 |
| 2 | 15MT1208 | Computer-Oriented Statistical Methods | 3 | 0 | 2 | 5 | 4 |
| 3 | 15CA1204 | System Configuration and Maintenance | 3 | 0 | 2 | 5 | 4 |
| 4 | 15CA1205 | Operating System | 3 | 0 | 2 | 5 | 4 |
| 5 | 15CA1206 | Programming in Java | 2 | 2 | 2 | 6 | 4 |
| 6 | 15CA1207 | Elementary Data Structures using C | 2 | 2 | 2 | 6 | 4 |
| **Total** | | | | | | 31 | 22 |

Cumulative Credits-20+22= 42

**BCA- Semester III**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S. No.** | **Course Code** | **Course Title** | **L** | **T** | **P** | **Hours** | **Credits** |
| 1 | 15EN2103 | Professional Communication Skills | 0 | 0 | 4 | 4 | 2 |
| 2 | 15CA2108 | Fundamentals of Storage | 4 | 0 | 0 | 4 | 4 |
| 3 | 15CA2109 | Software Engineering | 3 | 0 | 2 | 5 | 4 |
| 4 | 15CA2110 | Computer Networks | 3 | 0 | 2 | 5 | 4 |
| 5 | 15CA2111 | RDBMS | 2 | 2 | 2 | 6 | 4 |
| 6 | 15CA2112 | Web Technologies | 2 | 2 | 2 | 6 | 4 |
| 7 | 15CA2113 | Principles of Virtualization | 2 | 0 | 4 | 6 | 4 |
| **Total** | | | | | | 36 | 26 |

Cumulative Credits-20+22+26=68

**BCA Semester IV**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S. No.** | **Course Code** | **Course Title** | **L** | **T** | **P** | **Hours** | **Credits** |
| 1 | 15EN2204 | Employability Skills | 0 | 0 | 4 | 4 | 2 |
| 2 | 15GN1002 | Human Values | 2 | 0 | 0 | 2 | 2 |
| 3 | 15CA2214 | Information Security Fundamentals | 3 | 2 | 0 | 5 | 4 |
| 4 | 15CA2215 | Ethical Hacking Fundamentals | 2 | 2 | 2 | 6 | 4 |
| 5 | 15CA2216 | Cryptography Fundamentals | 3 | 2 | 0 | 5 | 4 |
| 6 | 15CA2217 | Introduction to Cloud Technology | 2 | 2 | 2 | 6 | 4 |
| 7 | 15CA2218 | Fundamentals of Data Center | 3 | 2 | 0 | 5 | 4 |
| **Total** | | | | | | 33 | 24 |

Cumulative Credits-20+22+26+24=92

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No** | **Course Code** | **Course Title** | **L** | **T** | **P** | **Hours** | **Credits** |
| 1 | 15EN3105 | Verbal and Quantitative Reasoning | 0 | 0 | 4 | 4 | 2 |
| 2 | 15CA3119 | Computer Forensics – An Introduction | 2 | 2 | 2 | 6 | 4 |
| 3 | 15CA3120 | Virtualization and Cloud Security | 3 | 2 | 0 | 5 | 4 |
| 4 | 15CA3121 | IT Governance, Risk, & Information Security Management | 3 | 2 | 0 | 5 | 4 |
| 5 | 15CA3122 | Server Operating System - II | 2 | 2 | 2 | 6 | 4 |
| 6 | 15CA3123 | Server Operating System - I | 2 | 2 | 2 | 6 | 4 |
| **Total** | | | | | | 32 | 22 |

**BCA-Semester V**

Cumulative Credits-20+22+26+24+22=114

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No** | **Course Code** | **Course Title** | **L** | **T** | **P** | **Hours** | **Credits** |
| 1 | 15EN3206 | Corporate Communication Skills | 0 | 0 | 4 | 4 | 2 |
| 2 | 15CA3224 | Wireless and VOIP Security,  Security in Mobile Application Development | 3 | 2 | 0 | 5 | 4 |
| 3 | 15CA3225 | Introduction to Windows Azure | 2 | 2 | 2 | 6 | 4 |
| **Total** | | | | | | 15 | 10 |

**BCA-Semester VI**

**Intenship:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Course Code** | **Course Title** | **Duration** | **Credits** |
| 15IE3049 | Internship | 4 weeks in summer  (Between Sem IV-V) | 2 |
| **Sub Total** | |  | **2** | |

**Project work:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Course Code** | **Project** | **L** | **T** | **P** | **Hours** | **Credits** |
| 15IE3050 | Project and Viva-Voce | 0 | 0 | 18 | 18 | 9 |