**BCT:**

**1st sem:**

**Applied Mechanics** : “Mechanics of Engineers- Statics and Dynamics”, F.P. Beer and E.R.Johnston, Jr.4th Edition, Mc Graw-Hill, 1987.

**Basic Electrical Engineering ;** J.R Cogdell, “Foundations of Electrical Engineering”,Printice Hall, Englewood Chiffs, New Jersy, 1990

**C programming** : Kelly & Pohl, “A Book on C”, Benjamin/Cumming

**Drawing I** “Fundamentals of Engineering Drawing”, W. J. Luzadder, Prentice Hall.

**Engineering Physics Fundamentals of Physics: Halliday, Resnick, Walker (Latest Edition)**

**Math I** A Textbook of Engineering Mathematics – Vol I

**2nd:**

**Basic Electronics** Thomas L. Floyd, “Electronic Devices” 8th Edition, Pearson Education, Inc.

**Engineering Chemistry** Engineering Chemistry by Jain and Jain

**Drawing II “ Fundamentals of Engineering Drawing”, W. J. Luzadder, Prentice Hall, 11th**

**Math II** A Textbook of Engineering Mathematics – Vol II

**Fundamental of thermodynamics& Heat Transfer** “Engineering Thermodynamics”, E. Rathakrishnan, Tata Mc Graw Hill.

**3rd:**

**Digital Logic** Donald P. Leach, Albert Paul Malvino and Goutam Saha, “ Digital

Principles and Applications”, 6th edition , Tata McGraw‐Hill, 2006

**Electric Circuit Theory** Michel D. Cilletti, “Introduction to Circuit Analysis and Design”, Holt, Hot Rinehart and Winston International Edition, New York, 1988.

**Electromagnetics** W. H. Hayt, “Engineering Electromagnetics”, McGraw‐Hill Book Company

**Electronic devices & Circuits**  David A. Bell, “ Electronics Device and Circuits ”, PHI; 3rd Edition, 1999.

3. Robert Boylestad and Louis Nashelsky, “ Electronic Device and Circuit

Theory”, PHI; 9th Edition, 2007

**Engineering Math III**

1. **Object Oriented Programming** Robert Lafore, “Object Oriented Programming in C++”, 4th Edition 2002, Sams Publication

* **Theory Of Computation** Michael Sipser, “Introduction to the Theory of Computation”, Thomson Course Technology.

**4th:**

**Applied Mathematics**

**Data Structure & Algorithm**

**Discrete Structure**

**Electric Machine**

**Instrumentation I**

**Microprocessor**

**Numerical Methods**

**5th:**

**Communication English**

**Computer Graphics**

**Computer Organization & Architecture**

**Data Communication**

**Instrumentation II**

**Probability & Statistics**

**Software Engineering**

**6th:**

**Artificial Intelligence**

**Database Management System**

**Embedded System**

**Engineering Economics**

**Object Oriented Analysis & Design**

**Operating System**

**7th:**

**Computer Network**

**Digital Signal ANalysis & Processing**

**Distributed System**

**Energy, ENvironment and Society**

**ICT Project Management**

**Organization & Management**

**8th:**

**Engineering Professional Practice**

**Information System**

**Internet and Intranet**

**Project(Part B)**

**Simulation and Modeling**