

## **SEM-I**

### **BCA-140-20 Computer Fundamentals Networking**

- CO1 Knowledge of Basic Hardware and Software
- CO2 Introduction of storage devices Input Output devices
- CO3 Introduction of Concept of Networking
- CO4 Knowledge of Networking, Connectivity Devices and various networking protocols
- CO5 Knowledge of ISO OSI model

### **BCA-141-20 C Programming**

- CO1 Strong Foundation Language for Programming. Mother of many Programming Languages like Java, Linux, Vb.Net etc.
- CO2 Most widely used programming language due to portability, robustness and expandability.
- CO3 Improvement of logical thinking

### **BCA-142-20 Mathematics**

- CO1 Basic Mathematics required for logic development of brain.
- CO2 Problem solving

### **BCA-143-20 English**

- CO1 Improvement of English Language Skills
- CO2 Improvement of English Grammar
- CO3 Upliftment of Fluency in English Language required for communication

### **BCA-144-20 Japanese**

- CO1 learning of Japanese Language
- CO2 Improvement of Interpretation Skills from Japanese to English
- CO3 Opportunity of Employability in the Companies working in Japanese Language area.

### **BCA-146-20 Operating System**

- CO1 Knowledge of composition of operating system
- CO2 Knowledge of development of operating system
- CO3 Knowledge of Factors affecting development of operating system

### **BCA-147-20 Lab C programming**

- CO1 Builds Strong Foundation in Programming.
- CO2 Enhances self confidence and simulates interest in programming.

## **SEM-II**

### **BCA-240-20 Statistics**

- CO1 Basic important concept of statistics
- CO2 Problem solving

### **BCA-241-20 Communication Skills**

- CO1 Improvement of communication Skills
- CO2 Upliftment of Fluency required for communication

### **BCA-242-20 Object Oriented Programming using C++**

- CO1 Knowledge of Advance version of language C with classes and objects
- CO2 Learning of object oriented Programming (OOPS)

### **BCA-243-20 Structured System Analysis and Design**

- CO1 Learning System Concept and the information system environment
- CO2 Become familiar to various Phases of Software Development Life Cycle

### **BCA-244-20 Principles & Practice of Management - I**

- CO1 Core Management principles included in the topics
- CO2 Knowledge of Management of people and systems provided
- CO3 Helps in understanding the flow of decision making and implementation

### **BCA-247-20 Lab Object Oriented Programming using C++**

- CO1 Learning of object oriented Programming (OOPS)

## **SEM-III**

### **BCA-340-20 Advance Web Designing**

- CO1 Knowledge of HTML
- CO2 Knowledge of JAVA script.
- CO3 Knowledge of ASP
- CO4 Website designing

### **BCA-341-20 Database Management System**

- CO1 Knowledge of database, data storage
- CO2 learning of management of data in the system
- CO3 Knowledge of data mining and data warehousing

### **BCA-342-20 E-Commerce**

- CO1 History and Current scenario in the market
- CO2 Learning of online shopping, online marketing
- CO3 Learning of Implementation of E-Commerce

### **BCA-344-20 ERP (Enterprise Resource Planning)**

CO1 Concept of Enterprise, resource and planning separately as well as in combination

CO2 Implementation of concept of ERP in software.

CO3 Study of various departments of an organization as modules and sub modules.

### **BCA-345-20 Software Testing and Quality Assurance.**

CO1 Finding defects which may get created by the programmer while developing the software

CO2 Gaining confidence in and providing into about be level of quality

### **BCA-346-20 Lab Advance Web Designing**

CO1 Programming in Java Script, HTML and ASP

CO2 Student can design and develop a website

## **SEM-IV**

### **BCA-440-20 Java Programming**

CO1 To understand and implement object oriented concepts using java

CO2 It is open source language & platform independent.

### **BCA-441-20 Principles & Practice of Management (PPM-II)**

CO1 Students will be able to understand current trends in management.

CO2 To understand leadership & motivational theories to design motivational programs

CO3 Can develop a systematic approach to solve organizational problems.

### **BCA-444-20 Advance Database Management System**

CO1 Focus of subject is on learning SQL, PL/SQL

CO2 Student can write PL/SQL codes & application related to database

### **BCA-445-20 Environmental Studies**

CO1 Develop sensitivity for the natural, physical and human resources in the immediate environment

CO2 Understand and evaluate the global scale of environmental problems

CO3 Understand critically the roles, responsibilities, and identities as citizens, consumers and environmental actors in a complex, and interconnected world.

### **BCA-446-20 Lab Java Programming**

CO1 To develop ability of java programming.

CO2 To develop ability of web concepts.

### **BCA-447-20 Lab Advance Database Management System**

CO1 Focus of subject is on learning SQL, PL/SQL

CO2 Student can write PL/SQL codes & application related to database

### **SEM-V**

#### **BCA-540-20 ASP.Net**

CO1 To understand web concept, IIS server etc.

CO2 Understand the process of development of website

#### **BCA-541-20 Python**

CO1 Develop Problem solving and programming capability

CO2 To learn and understand Python programming basics and paradigm.

CO3 To learn and know the concepts of file handling, exception handling and database connectivity

#### **BCA-542-20 Linux**

CO1 Learning Operating system concepts.

CO2 To develop the shell programming skills.

#### **BCA-543-20 Business Applications**

CO1 Study of this subject helps the business to increase productivity

CO2 To increase profits by cutting cost and speeding up the productive cycle.

#### **BCA-546-20 UML**

CO1 Learning of various symbols and types of diagrams for designing a software system.

#### **BCA-547-20 Lab ASP.Net**

CO1 to understand web concept, IIS server etc

CO2 to develop website

#### **BCA-548-20 Lab Python**

CO1 To learn and understand Python programming basics

CO2 To understand python looping, control statements and string manipulations.

#### **BCA-549-20 Lab Linux**

CO1 learning Open source Operating system concepts.

CO2 to develop the shell programming skills.

## **SEM-VI**

### **BCA-640-20 Cloud technology**

CO1 Learning of cloud technology.

CO2 Knowledge of memory management and storage of data in cloud technology.

CO3 Implementation and use of cloud technology.

### **BCA-641-20 Advance JAVA**

CO1 Introduction to behavioral science

CO2 Knowledge of structure of organization and its interaction.

### **BCA-642-20 CTIT (Current Trends in IT)**

CO1 Learning of current scenario of IT market.

CO2 Knowledge of current trends in IT sector.

CO3 Learning of future opportunities.

### **BCA-643-20 Organizational Behavior**

CO1 Introduction to behavioral science

CO2 Knowledge of structure of organization and its interaction.

### **BCA-644-20 Digital Marketing**

CO1 Translate some of the key marketing and business models that will help to shape your digital marketing strategy

CO2 Review the history of digital marketing to give some perspective to your digital strategic plan

CO3 Describe online market presence, segmentation and the 4 Ps of marketing and their implications for digital marketing

CO4 Discuss the opportunities and risks of integrated digital marketing

### **BCA-645-20 Lab Advance JAVA**

CO1 Introduction to behavioral science

CO2 Knowledge of structure of organization and its interaction.

### **BCA-646-20 Lab CTIT (Current Trends in IT)**

CO1 Learning of current scenario of IT market.

CO2 Knowledge of current trends in IT sector.

CO3 Learning of future opportunities.

### **BCA-647-20 Lab Cloud technology**

CO1 Learning of cloud technology.

CO2 Knowledge of memory management and storage of data in cloud technology.  
CO3 Implementation and use of cloud technology.

**BCA-648-20 Project**

CO1 Knowledge of development of software, its documentation, cost calculation and implementation.

CO2 Learning of presentation of the software.