

Semester -3&4

Paper Code –BCA- 202 & BCA-207

Paper Name- Data Structures:

1. The subject intended to teach the Data Structures that are used to store different type of values in computer languages.
2. Different types of data structures are available in their syllabus.
3. Data Structures –I contains basics about all the data structures like array, linked list, stack, queue, tree, graph.
4. Data Structures –II contains the detailed study and applications of the data structures in various searching, sorting algorithms.
5. File storage also helps the students to understand the working of different files in our system.
6. After studying the subject the students are able to understand how data is stored and accessed in which manner in the memory device and how our programs use those values.

Semester : 3

Paper Code -203

Paper Name- Introduction to Database System:

1. The subject provides a detailed coverage of the topics related to the design, use and implementation of database systems.
2. Students become familiar with the introduction of database systems.
3. Details of database system Architecture, various data models help them to understand the database systems.
4. Students study Relational Algebra along with SQL commands in detail and become familiar how the databases can be used in any programming languages.
5. SQL commands help them to understand how to deal with the database stored in a system and how to make a new database and how to update any value in the database.

Semester : 3

Paper Code : BCA-201

Paper Name: Introduction to Operating System

1. This subject helps the students to clearly understand how computers work under the hood.
2. Students learn the interface, deadlock concepts in detail which give idea about the problems and overcoming methodologies in an operating system
3. This subject helps the students to get an idea about internal operation of computer and arrangement of files inside the computer

4. The subject helps the students how to encrypt and decrypt their data, various types of operating system
5. The subject helps them to understand the memory management, device management and various scheduling algorithm which help them to utilize the computer processor

Semester : 4

Paper Code : BCA-206

Paper Name: WEB DESIGNING

1. This subject helps the students to Better Understand the Web and become professional Web developers
2. Knowing the basics of HTML and CSS, used to create web pages is a skill that will always be useful for the computer science students.
3. The subject helps the students to Create Websites quite easily and Start as a web Career.
4. The subject gives detail knowledge of hosting a website, necessary protocols for hosting ,Client server technology, web casting etc
5. It gives in-depth knowledge of HTML, DHTML, various attributes used in it.
6. Students can write code for web sites and web-based applications using the Hyper Text Markup Language (HTML).
7. This paper help the students to code sites, update sites, write technical documentation and stay on top of new web-based technologies.

Semester : 4

Paper Code : BCA-209

Paper Name :Software Engineering

1. This paper helps the students to learn about systematic, disciplined, quantifiable approach to the development, operation, and maintenance of software.
2. Learning Designing the software, planning the software help to get a clear idea about the estimation of cost during the creation of software.
3. The complexity of software is clearly explained by various methods helps the students to get idea about the problem solving technique
4. This paper helps to design, code, and implement new software also helps the students to understand the style of coding in creating software.
5. It also explain the various testing methods, its uses and maintenance techniques during the creation of software
6. It helps the student to develop the creative minds behind computers or programs.