SPACES DEGREE COLLEGE, PAYAKARAOPETA
DEPARTMENT OF COMPUTER SCIENCE
SEMESTER-I (BCA)
COURSE 1: FUNDAMENTALS OF COMMERCE

Learning Objectives:

The objective of this paper is to help students to acquire conceptual knowledge of the Commerce, Economy and Role of Commerce in Economic Development.

To acquire Knowledge on Accounting and Taxation.

Learning Outcomes:

At the end of the course, the student will able to

- Identify the role commerce in Economic Development and Societal Development.

- Equip with the knowledge of imports and exports and Balance of Payments.

- Develop the skill of accounting and accounting principles.

- They acquire knowledge on micro and micro economics and factors determine demand and supply.

- An idea of Indian Tax system and various taxes levied on in India.

- They will acquire skills on web design and digital marketing.

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SEMESTER-I (BCA)
COURSE 2: BUSINESS ORGANIZATION

Learning Objectives:

The course aims to acquire conceptual knowledge of business, formation various business organizations.

To provide the knowledge on deciding plant location, plan layout and business combinations.

Learning outcomes:

After completing this course, a student will have:

- Ability to understand the concept of Business Organization along with the basic laws and norms of Business Organization.
- The ability to understand the terminologies associated with the field of Business Organization along with their relevance and to identify the appropriate types and functioning of Business Organization for solving different problems.
- The application of Business Organization principles to solve business and industry related problems
- To understand the concept of Sole Proprietorship, Partnership and Joint Stock Company etc.

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SEMESTER-II (BCA)
COURSE 3: OFFICE AUTOMATION TOOLS

Course Objectives:

To introduce the environment of GUI in Ms-Word and its features.

To introduce the fundamental concepts using Ms-Word and its features to make it more useful.

To provide hands-on use of Word, Excel and PowerPoint.

Course Outcomes:

The students will be able:

To understand concept of Word Processor and use its features.

To use the advanced features of Ms-Word to make day to day usage easier.

To work comfortably with Ms-Excel Environment.

To Create worksheets and use advanced features of Excel.

To create presentations and inserting multimedia items in them.

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SEMESTER-II (BCA)
COURSE 4: PROGRAMMING IN C

Course Objectives:

Provides knowledge on Algorithms, Flow chart and basic programming language.

Provides complete knowledge of C language.

Helps to develop logics which will help them to create program and applications in C.

Learning the basic programming constructs, they can easily switch over to any other language in

future.

Course Outcomes:

Upon successful completion of this course, students will be able to

Understand the basic terminology used in computer programming.

Write, compile and debug programs in C language.

Use different data types in a computer program.

Design programs involving decision structures, loops and functions.

Understand the dynamics of memory by the use of pointers and Structures.

Apply different operations in File handling.

Course Objectives:

• Graduates will have the expertise in analyzing real time problems and providing appropriate solutions related to Computer Science & Engineering.

• Graduates will have the knowledge of fundamental principles and innovative technologies to succeed in higher studies and research.

• Graduates will continue to learn and to adapt technology developments combined with deep awareness of ethical responsibilities in profession.

Course Outcomes:

• An ability to apply Knowledge of computing and mathematics in Computer Science & Engineering.

• An ability to analyze a problem, identify and define the computing requirements appropriate to its solution.

• An ability to design, implement and evaluate a computer-based system to meet desired needs with appropriate societal considerations.

• An ability to conduct investigations, interpret data and provide conclusions in investigating complex problems related to Computer Science & Engineering.

• An ability to engage in continuing professional development and life-long learning.

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SEMESTER-III (BCA)
COURSE 6: DATA STRUCTURES

Course Objectives:

The objective of the course is to make a student to implement data structures and organize and manage data, based on data structures for efficient access.

Course Outcomes:

- Identify data structures suitable to solve any specific problem.
- Identifying various data structures and their real-time applications Identifying the use of Time and Space Complexity.
- Implementing different sorting &searching techniques.

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DEPARTMENT OF COMPUTER SCIENCE
SEMESTER-III (BCA)
COURSE 7: OBJECT ORIENTED PROGRAMMING THROUGH JAVA

Course Objectives:

To make the students understand the fundamentals of Java programming.

To expose the students to Window based applications using AWT

To make the students to design appropriate Exception Handling in Java

To make the students to understand the concepts of Threads Files and I/O Streams, Applets Networking in java.

Course Outcomes:

The student would become competent enough to write, debug, and document well-structured java applications

Demonstrate good object-oriented programming skills in Java

Able to describe recognize, apply, and implement selected design patterns in Java

Understand the capabilities and limitations of Java

Be familiar with common errors in Java and its associated libraries

Develop excellent debugging skills.

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DEPARTMENT OF COMPUTER SCIENCE
SEMESTER-III (BCA)
COURSE 8: SOFTWARE ENGINEERING

Course Objectives:

The Objective of the course is to assist the student in understanding the basic theory of

software engineering, and to apply these basic theoretical principles to a group software

development project.

Course Outcomes:

1. Ability to gather and specify requirements of the software projects.

2. Ability to analyze software requirements with existing tools

3. Able to differentiate different testing methodologies

4. Able to understand and apply the basic project management practices in real life projects

5. Ability to work in a team as well as independently on software projects.

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DEPARTMENT OF COMPUTER SCIENCE
SEMESTER-IV (BCA)
COURSE 10: OPERATING SYSTEMS

Course Objectives:

1. To know the basic Structure, Components and Organization of Operating System.

2. To learn the notation of a Process- a Program in Execution, Management, Scheduling and

Classic Problems of Synchronization.

3. To gain knowledge in various Memory Management Techniques.

4. To understand Unix Operating System and Various File operations.

Course Outcomes:

The students will be able to:

1. Understand the main components and Structure of Operating System & their functions.

2. Analyze various ways of Process Management & CPU Scheduling Algorithms.

3. Evaluate various device and resources like Memory, Time and CPU Management techniques

in distributed systems.

4. Apply different methods for Preventing Deadlocks in a Computer System.

5. Create and build an Application/Service over the UNIX operating system.

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DEPARTMENT OF COMPUTER SCIENCE
SEMESTER-IV (BCA)
COURSE 11: MOBILE APPLICATION DEVELOPMENT USING ANDROID

COURSE OBJECTIVES:

1. To facilitate students understanding android SDK

2. To help students to gain a basic understanding of Android application development

3. To instill working knowledge of Android Studio development tool

COURSE OUTCOMES:

The theory, practical experiences and relevant soft skills associated with this course are to be

taught and implemented, so that the student demonstrates the following industry-oriented COs

associated with the above-mentioned competency:

1. Identify various concepts and features of Android operating system.

2. Configure Android environment and development tools.

3. Develop rich user Interfaces by using layouts and controls.

4. Use User Interface components for android application development.

5. Create Android application using database. 6. Publish Android applications.