

DEPARTMENT OF COMPUTER APPLICATIONS - BCA

PSOs, Cos

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1: Able to develop Software and can serve as a Software developer and Programmer.

PSO2: Able to serve as the Software Professional in different IT sectors with enhanced knowledge of Software.

PSO3:Understand the Networking concepts and can serve as a Network Infrastructure Developer.

PSO4: Able to serve as a Database developer and also as DBMS Administrator by thoroughly learning DBMS.

PSO5: Able to serve as the Web Designers/Website Developers by knowing various Web Development Software.

PSO6: Able to present their innovations in more unique way by using Software.

COURSE OUTCOME

SEMESTER I

COURSE: DIGITAL LOGIC AND PROGRAMMING IN C CREDIT: 6

CO1: Apply the principles of number system, binary codes and Boolean algebra to minimize logic expressions.

CO2: Develop K-maps to minimize and optimize logic functions up to 5 variables.

CO3: Design various Combinational and Sequential Circuits such as encoders, decoders and counters using multiplexers and flip flops.

CO4: Identify the errors during the execution of a program.

CO5: Develop their programming skills.

CO6: Understand operators, expressions and pre-processors.

CO7: Understand arrays, its declaration and uses

COURSE: PROGRAMMING IN C LAB

- CO1: Design programs using Functions, Pointers, Structures and Union in C Language.
- CO2: Design a program using File handling.
- CO3: Implement arrays in Sorting and Linear Search of an element.

COURSE: MATHEMATICAL FOUNDATIONS I CREDIT: 4

- CO1: Understand to simplify and evaluate algebraic expressions.
- CO2: Analyze linear equations in one variable.
- CO3: Compare linear and non-linear equations using Analytic methods.
- CO4: Implement concepts to convert between metric, household and Apothecary Units.

SEMESTER - II

COURSE: C++ & DATA STRUCTURE

CO1: Understand The Basic Concepts Of Operators & Expression.

CO2: Create the functions in classes & objects.

CO3: Understand the concept of function overloading.

CO4: Identify all inheritance and file concept.

CO5: Evaluate the data structure & list concept analysis.

CO6: Create data type & operations in data structures concept.

CO7: Compare the binary search tee &graph concept of operation.

COURSE: C++ AND DATA STRUCTURES LAB CREDIT: 2

CO1: Implement the concept of classes, object, conueer443structor, functions and overloading

CO2: Implement the inheritance and error handing functions

CO3: Implement infix to postfix conversion & binary tree traversals (in-order, pre- order& post order).

COURSE: MATHEMATICAL FOUNDATIONS II CREDIT: 6

CO1: Understand Matrix, Skew-Symmetric Matrix

CO2: Understand Cayley-Hamilton theorem

CO3: Analyze definite integrals

CREDIT: 2

CO4: Implement analytical geometry

CO5: Understand 3-Dimension

CO6: Compare area and volume using Integration

CO7: Analyze Planes and Straight Lines

CO8: Analyze Hermition and Skew-Hermition

SEMESTER - III

COURSE: JAVA PROGRAMMING

CO1: Use an integrated development environment to write, compile, run and test simple object oriented java programs.

CO2: Read and make elementary modifications to java programs that solve real-world problems.

CO3: Validate input in a java program.

CO4: Identify and fix defects and common security issues in code.

COURSE: E-COMMERCE

CO1: Understand traditional and electronic business applications

- CO2: Analyze network infrastructure For E-Commerce
- CO3: Understand network security and Firewalls
- CO4: Analyze EDI and its applications
- CO5: Understand about Encrypted documents

COURSE: RESOURCE MANAGEMENT TECHNIQUES CREDIT:4

- CO1: Understand linear programming problem
- CO2: Analyze Assignment and transportation problem
- CO3: Learn sequencing Model
- CO4: Learn replacement Model
- CO5: Understand networking analysis

COURSE: JAVA PROGRAMMING LAB

CO1: Implement Package, Inheritances and interfaces

CO2: Analyze Flow, Border and Grid Layouts Validate input in a java program

CO3: Evaluate Dialogs, Menu and Frame

CREDIT: 3

CREDIT:4

CO4: Implement User defined Exception Handling

COURSE: FINANCIAL ACCOUNTING CREDIT: 4

CO1: Understand financial Accounting concept

- CO2: Understand the causes of depreciation
- CO3: Analyze calculation of bills exchange and trade bills
- CO4: Compare single entry and double entry system.
- CO5: Understand profit and loss accounting

COURSE: DESIGN AND ANALYSIS OF ALGORITHM CREDIT: 3

CO1: Understand the concepts of Algorithm and Analysis.

CO2: Learn various advanced design and analysis techniques such as greedy algorithms, dynamic programming.

CO3: Understand different computational models and various complexity measures.

CO4: Analyze the complexity/ performance of different algorithms.

COURSE: TRAINING AND DEVELOPMENT CREDIT: 2

CO1: Understand the training needs and responsibilities of On the job and Off the job training.

CO2: Understand importance of career Planning.

CO3: Understand psychology of the learning process on which training is based.

CO4: Analyze the training needs of an organization.

SEMESTER - IV

COURSE: DATABASE MANAGEMENT SYSTEMS

CO1: Understand the basic concepts of Database.

CO2: Analyze different data models.

CO3: Evaluate SQL and PL/SQL concepts

CO4: Implement Procedures, Functions, Triggers and Cursors.

COURSE: ENTERPRISE RESOURCE PLANNING

CREDIT: 4

CREDIT: 3

CO1: Describe about business process under ERP system.

CO2: Understand the system of Industrial Credit Management system

- CO3: Define the various function areas
- CO4: Understand the concept of human resource management
- CO5: Compare and contrast traditional system and ERP system

COURSE: DECISION SUPPORT SYSTEM CREDIT: 4

- CO1: Understand the concepts of Decision Support system (DSS) and its affect on management.
- CO2: Define the purpose of DSS and Data Warehousing.
- CO3: Compare data, information and knowledge as they apply to DSS.
- CO4: Define and describe the usefulness of the neural network.
- CO5: Define and differentiate between the data warehouse, data marts and data mining.

COURSE: RDBMS LAB

CO1: Implement Simple Queries to fetch data from table.

CO2: Evaluate queries used to fetch data from table using aggregate functions and set operations.

- CO3: Compare and Contrast Trigger Before and After
- CO4: Implement Functions and Procedures in PL/SQL.

COURSE: FINANCIAL ACCOUNTING II

- CO1: Understand different accounting methods
- CO2: Evaluate department and branch account
- CO3: Compute partnership account

CO4: Analyze the procedure of dissolution of partnership form

CO5: Understand hire purchase and installation accounts.

COURSE: COMPUTER ORGANISATION AND ARCHITECTURE CREDIT: 3

- CO1: Understand the basic computer architecture.
- CO2: Compare the different Addressing Modes
- CO3: Analyze Direct Memory Access
- CO4: Compare and Contrast Memory Management

COURSE: MANAGEMENT CONCEPTS

CREDIT: 2

CO1: Understand the functions and responsibilities of managers.

CREDIT: 3

- CO2: Analyze tools and techniques to be used in the performance of the managerial job.
- CO3: Analyze and understand the environment of the organization.
- CO4: To develop cognizance of the importance of management principles.

SEMESTER - V

CREDIT: 3

CREDIT: 3

COURSE: MOBILE APPLICATIONS DEVELOPMENT CREDIT: 3

CO1: Acquire knowledge of Mobile Applications Development

- CO2: Understand Eclipse and Android Studio
- CO3: Implement mobile applications development in Emulator
- CO4: Understand Mobile databases
- CO5: Understand Android Services and Android User Interface

COURSE: OPERATING SYSTEM

- CO1: Analyze various operating system servicesCO2: Compare and contrast various scheduling algorithmCO3: Understand memory management techniques
- CO4: Implement various file management techniques

COURSE: DATA COMMUNICATION AND NETWORK CREDIT: 2

CO1: Understand data communication and prepare them for better computer networking CO2: Prepare logical and physical network drawings for fairly simple networks, specifying network and link types, plus costs

CO3. Evaluate a java program using javadoc.

COURSE: MOBILE APPLICATIONS DEVELOPMENT LAB CREDIT: 3

- CO1: Implement Basic Android Applications
- CO2: Implement Activity, Intent, Spinner
- CO3: Understand Android Studio and Eclipse
- CO4: Implement Progress Bar, Gaming Apps, Alert Dialog

COURSE: OPERATING SYSTEM LAB

CO1: Implement various scheduling algorithm concept

CO2: Analyze producer consumer problem using semaphore

- CO3: Implement memory management techniques
- CO4: Implement a program for system calls

COURSE: DATA MINING

CO1: Understand the concepts of data mining and data models

CO2: Acquire good knowledge of data pre processing.

CO3: Understand the concept of data classification.

CO4: Understand the concept of data cluster analysis.

COURSE: SOFTWARE ENGINEERING

CO1: Understand Software Engineering

CO2: Analyze different Process Models like Waterfall Model, Evolutionary Process Model

CO3: Explain about the Data Engineering and System Architecture Design

CO4: Compare the Black Box and White Box Testing

CO5: Analyze the Project Management.

SEMESTER - VI

COURSE: CLOUD COMPUTING

CO1: Understand the basic functions, principles and concepts of cloud systems.

CO2: Understand the basic concepts of cloud computing.

CO3: Determine the various services available for developing cloud.

CO4: Troubleshoot the various securities in cloud.

CO5: Evaluate the programming model technique available in cloud.

CO6: Acquire sufficient knowledge about the cloud.

COURSE: OPEN SOURCE PROGRAMMING

CO1: Understand the basic concepts of HTML5&CSS

CO2: Analyze various Linux commands & security models

CO3: Discussion on MYSQL and PHP database connectivity

CO4: Evaluate PHP Controls, structures and arrays

CO5: Implement basic form processing with PHP and MYSQL

CREDIT: 5

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CREDIT: 4

CREDIT: 3

COURSE: ASP.NET LAB

CO1: Implement validation controls.

CO2: Implement Web server controls.

CO3: Implement ADO.NET and how to access database

CO4: Evaluate Ad rotator programs.

COURSE: OPEN SOURCE PROGRAMMING LAB

CO1: Implement frames & tables in HTML

CO2: Implement various CSS styles and list concept.

CO3: Evaluate basic shell programs

CO4: Implement cookies and session concept

COURSE: MOBILE COMPUTING

CO1: Acquire Good Knowledge of Wireless Communication to Students.

CO2: Understand Fundamentals of Wireless Communication.

CO3: Analyze Security, Mobility, Scalability and Their Unique Characteristics in Wireless Network.

CO4: Apply Knowledge of TCP/IP extension in Mobile computing.

COURSE: MULTIMEDIA SYSTEMS

CO1: Understand the concept of Multimedia

CO2: Compare different medium like text, audio, video, graphics and animation.

CO3: Analyse Application program interface

CO4: Acquire good knowledge about different Multimedia Software

COURSE: ASP.NET

CO1: Understand basic concepts of ASP.NET.

CO2: Evaluate different validation controls.

CO3: Analyze Architecture of ADO.net.

CO4: Understand how to access database in web application.

CREDIT: 3

CREDIT: 3

CREDIT: 3

CREDIT: 3