Course Outcome (2020-2021)

BCA Sem: III

BCA-211 ENGLISH

1. Gleanings from Home and Abroad

- **Students can Identify analyze, interpret and describe the critical ideas, values and themes that appear in literary and cultural texts and understand the way these ideas, values and themes inform and impact culture and society.**

  - **Acquire knowledge and acquaintance to Indian Writing in English**
  - **Learn to use literature to develop their moral and social sense.**

2. GRAMMAR (RAYMON D MURPHY, ENGLISH GRAMMAR)

- **Students imbibe the rules of language unconsciously and tune to deduce language structure and usage.**
- **Students write paragraphs, essays, and letters.**
- **Students decipher the mechanism of age and use it for success in competitive examinations and job related speaking and writing tasks.**

BCA-212 Discrete Mathematics

- To understand the basics concepts of Discrete Mathematical Structures.
- To get the Knowledge about sets, relations and functions.
- To study the basics of lattices and graphs.
- To get familiar with propositional logic.

BCA -213 Computer System Organisation & Architecture

- To understand the structure, function and characteristics of computer systems.
- To understand the design of the various functional units and components of computers.
- To identify the elements of modern instructions sets and their impact on processor design.
- To explain the function of each element of a memory hierarchy,
- To identify and compare different methods for computer I/O.

BCA-214 C++

- Describe OOPs concepts
- Use functions and pointers in your C++ program
- Understand tokens, expressions, and control structures
- Explain arrays and strings and create programs using them
- Describe and use constructors and destructors
- Understand and employ file management
- Demonstrate how to control errors with exception handling

BCA-215 Fundamentals of Database and Management System

- Understand the basic concepts and the applications of database systems.
- Master the basics of SQL and construct queries using SQL.
- Understand the relational database design principles.

BCA-216 C++ LAB

- Describe OOPs concepts
- Use functions and pointers in your C++ program
- Understand tokens, expressions, and control structures
- Explain arrays and strings and create programs using them
- Describe and use constructors and destructors
- Understand and employ file management

BCA -217 DBMS USING MS ACCESS LAB

• Describe the fundamental elements of relational database management systems

• Explain the basic concepts of relational data model, entity-relationship model, relational database design, relational algebra and SQL.

• Design ER-models to represent simple database application scenarios

BCA -218 environment and road safety Awareness

- Articulate the interconnected and interdisciplinary nature of environmental studies;
- Communicate complex environmental information to both technical and non-technical audiences.
- Understand and evaluate the global scale of environmental problems.

- Reflect critically on their roles, responsibilities, and identities as citizens, consumers and environmental actors in a complex, interconnected world.
- Road safety education reduces fatal accidents and improves risk-avoiding behaviour.
- Road safety education has a moderate effect in reducing adverse traffic outcomes.

BCA sem-iv

BCA-222 Computer Network

- Build an understanding of the fundamental concepts of computer networking.
- Familiarize the student with the basic taxonomy and terminology of the computer networking area.
- Introduce the student to advanced networking concepts, preparing the student for entry Advanced courses in computer networking.
- Independently understand basic computer network technology.
- Identify the different types of network topologies and protocols.
- Enumerate the layers of the OSI model and TCP/IP. Explain the function(s) of each layer.

BCA-223 MIS

- To describe the role of information technology and decision support systems in business and record the current issues with those of the firm to solve business problems.
- To introduce the fundamental principles of computer-based information systems analysis and design and develop an understanding of the principles and techniques used.
- To enable students understand the various knowledge representation methods and different expert system structures as strategic weapons to counter the threats to business and make business more competitive.
- To enable the students to use information to assess the impact of the Internet and Internet technology on electronic commerce and electronic business and understand the specific threats and vulnerabilities of computer systems
- To provide the theoretical models used in database management systems to answer business questions.

BCA-224 Computer oriented statistical and numerical methods
- .Understanding and Learning of numerical methods for numerical analysis.
- .Understanding the implementation of numerical methods using a computer.
- .Learning of tracing errors in Numerical methods and analyze and predict it.
- .Learning of application of Statistical methods.
- .Discuss concepts of numerical methods used for different applications

BCA -225 Relational Database Management Systems
- Upon successful completion of this course, students should be able to :
- Describe the fundamental elements of relational database management systems

- Explain the basic concepts of relational data model, entity-relationship model, relational database design, relational algebra and SQL.

BCA -226 PRACTICAL OF COMPUTER ORIENTED NUMERICAL AND STATISTICAL METHODS

- Skill to choose and apply appropriate numerical methods to obtain approximate solutions to difficult mathematical problems.
- Ability to apply various statistical techniques such as Measures of Central Tendency and Dispersion.
- Understanding of relationship between variables using the method of Correlation
- Trend Fit Analysis. Skill to execute programs of various Numerical Methods and Statistical Techniques for solving mathematical problems.

BCA-227 RDBMS with Oracle Lab

- Write complex SQL queries to retrieve information from databases with many tables to
- support business decision making.
- Write SQL DDL to create, modify and drop objects within a relational database. Retrieve and store information in a relational database using SQL in a multi-user