

## GOVT. COLLEGE AMARGARH

### Course Outcome

Session: 2022-2023

**Department** : **Computer Science**

**Class** : **B.A -I,II,III**

**Programme code** : **ARTB1PUP**

#### **B.A. I(Sem-I)**

- Students will understand basic computer architecture.
- Students will Convert between different number systems and describe some different codes.
- Students will understand the fundamental hardware components that make up a computer's hardware and the role of each of these components.
- learn all input and output devices and their functioning
- Understand the role of CPU and its components. Learn basic Applications of IT.
- Students will learn basic computer network and topologies used for networking.
- Students will also learn the benefits of social media for education.

#### **B.A. I (Sem-II)**

- To know how to use the most common Microsoft Office programs
- To be able to create documents for printing and sharing
- To be able to create and share presentations
- To be able to manage and store data in a spreadsheet
- Students will understand which tasks each of the major Office programs can perform.
- Students will be able to independently create professional-looking documents, presentations, and spreadsheets and Databases.
- Students will be familiar with some advanced Office functions.
- Students will understand how to use Word, Excel, Power Point and Access in a variety of professional, educational, and personal situations.
- Students will be able to claim Office proficiency.

### **BA II (Sem-III)**

The Students after completing course will be able to :

- Develop logics to create the programs in C.
- Also learning the basic programming constructs they can easily switch over to any other language in future.
- The student will be able to develop application.
- Understand the basic terminology used in computer programming, writing, compiling and debugging involving decision structures, loops and functions, arrays, strings and pointers, union.
- Have a comprehensive knowledge of the data structures and algorithms on which file structures and data bases are based.
- Understand the importance of data and be able to identify the data requirements for an application. Have an understanding and practical experience of algorithmic design and implementation.
- Have practical experience of developing applications that utilize databases. Understand the issues involved in algorithm complexity and Performance.

### **BA II (Sem-IV)**

- Students will be able to define program-data independence, data models for database systems, database schema and database instances.
- He/she will be able to recall Relational Algebra concepts, and use it to translate queries to Relational Algebra, used in creation and manipulation of database
- Identify the methodology of conceptual modeling through Entity Relationship model, identify the methodology of logical model and also identify the methodology of physical model.
- Student will also be able to analyze and design a real database application and develop and evaluate a real database application using a database management system.

### **BA III(Sem-V)**

- The Students after completing course will be able to:
- Explain object-oriented concepts and describe how they are supported by C++ including identifying the features and peculiarities of the C++ programming language.
- Use C++ to demonstrate practical experience in developing object-oriented solutions.
- Design and implement programs using C++.
- Analyze a problem description, design and build object-oriented software using good coding practices and techniques.
- Implement an achievable practical application and analyze issues related to object-oriented techniques in the C++ programming

### **BA III(sem-VI)**

The Student after completing course will be able to:

- Learn the need to create a Network.
- Learn about different layers and protocols present in those layers.
- Learn to configure the network devices.
- Learn about IP -Addressing. Learn about Network Security.
- The Student after completing course will be able to: Have a basic knowledge of the use of cryptography and network security.
- Learn about Computer Security, Security Strategies, Security Tools, Encryption,