

Y.A.Govt.Degree College Women,Chirala

Department of Computer Science

B. COM (CA) & B.A

Course Learning Outcomes

Paper 1: INFORMATION TECHNOLOGY

- **Demonstrate basic understanding of computer hardware and software.**
- **Apply skills and concepts for basic use of a computer.**
- **Identify appropriate tool of MS office to prepare basic documents, charts, spreadsheets and presentations.**
- **Create personal, academic and business documents using MS office.**
- **Create spreadsheets, charts and presentations.**
- **Analyze data using charts and spread sheets.**

Paper 2: E-COMMERCE & WEB DESIGNING

- **Understand the online business and its advantages and disadvantages**
- **Recognize new channels of marketing, their scope and steps involved**
- **Analyze the procurement, payment process, security and shipping in online business**
- **Create new marketing tools for online business**
- **Define search engine, payment gateways and SEO techniques.**
- **Understand and appreciate the web architecture and services.**
- **Gain knowledge about various components of a website.**
- **Demonstrate skills regarding creation of a static website and an interface to dynamic website.**

Paper 3: PROGRAMMING WITH C & C++

- **Remembers and states in a systematic way (Knowledge)**
- **Develop programming skills**
- **Declaration of variables and constants use of operators and expressions**
- **learn the syntax and semantics of programming language**
- **Be familiar with programming environment of C and C++**
- **Ability to work with textual information (characters and strings) & arrays**
- **Explains (Understanding)**
- **Understanding a functional hierarchical code organization**
- **Understanding a concept of object thinking within the framework of functional model**
- **Write program on a computer, edit, compile, debug, correct, recompile and run it**
- **Critically examines, using data and figures (Analysis and Evaluation)**
- **Choose the right data representation formats based on the requirements of the problem**
- **Analyze how C++ improves C with object-oriented features**

- Evaluate comparisons and limitations of the various programming constructs and choose correct one for the task in hand
- Working in “Outside Syllabus Area” under a Co-curricular Activity(Creativity) Planning of structure and content, writing, updating and modifying computer programs for user solutions
- Exploring C programming and Design C++ classes for code reuse (Practical skills***)

Paper 4: Data Base Management System

- Remembers and states in a systematic way (Knowledge)
- Understand the role of a database management system in an organization.
- Understand basic database concepts, including the structure and operation of the relational data model.
- Understand and successfully apply logical database design principle including E.R diagrams and database normalization
- Understand Functional Dependency and Functional Decomposition
- Explains (Understanding)
- To design and build a simple database system and demonstrate competence with the fundamental asks involved with modeling, designing and implementing a DBMS.
- Perform PUSQL programming using concept of Concept Management Error Handling, packages
- Critically examines, using data and figures (Analysis and Evaluation)
- Apply various Normalization techniques
- Model an application's data requirements using conceptual modeling tools like ER diagrams and design database schemas based on the conceptual model
- Working in “outside syllabus Area” under a co-curricular Activity(creativity) Design and implement a small database project
- Construct simple and moderately advanced database queries using Structured Language (SQL) (Practical skills)

Paper 5: Object Oriented Programming with Java

- Understand the benefits of a well-structured program.
- Understand different computer programming paradigms.
- Understand underlying principles of Object-Oriented Programming in Java.
- Develop problem-solving and programming skills using OOP concepts.
- Develop the ability to solve real-world problems through software development in high-level programming language like Java.

Paper 6A: BIGDATA ANALYTICS USING R

- Understand data and classification of digital data.
- Understand Big Data Analytics.
- Load data in to R.
- Organize data in the form of R objects and manipulate them as needed

- Perform analytics using R programming.

Paper 7A: DATA SCIENCE USING PYTHON

- Understand basic concepts of data science
- Understand why python is a useful scripting language for developers.
- Use standard programming constructs like selection and repetition.
- Use aggregated data (list, tuple, and dictionary).
- Implement functions and modules.

Paper 6B: MOBILE APPLICATION DEVELOPMENT

- Identify basic terms, tools and software related to android systems
- Describe components of IDE, understand features of android development tools
- Describe the layouts and controls
- Explain the significance of displays using the given view
- Explain the features of services and able to publish android Application
- Developing interesting Android applications using MIT App Inventor

Paper 7B: CYBER SECURITY AND MALWARE, ANALYSIS

- Understand the computer networks, networking tools and cyber security
- Learn about NIST Cyber Security Framework
- Understand the OWASP Vulnerabilities
- Implement various Malware analysis tools
- Understand about Information Technology act 2000

Paper 6C: E- COMMERCE APPLICATION DEVELOPMENT

- To apply in an integrative and summative fashion the students' knowledge in all fields of business studies by drafting a website presence plan.
- To understand the factors needed in order to be a successful in ecommerce
- To gain the skills to bring together knowledge gathered about the different components of building a web presence
- To critically think about problems and issues that might pop up during the establishment of the web presence
- To apply Word Press as a content management system (CMS), Plan their website by choosing color schemes, fonts, layouts, and more

Paper 7C: REAL TIME GOVERNANCE SYSTEM (RTGS)

- Understand the terms regarding Governance, E-Governance and RTGS
- Learn about E-Governance Infrastructure
- Understand the E-Governance implementation in several countries
- Understand the E-Governance implementation in several Indian states
- Understand the applications of RTGS

Paper 6D: MULTIMEDIA TOOLS AND APPLICATIONS

- **Gain knowledge on the concepts related to Multimedia.**
- **Understand the concepts like image data representation and colour modes.**
- **Understand the different types of video signals and digital audio.**
- **Know about multimedia data compression types and audio compression standards**
- **Know about basic video compression techniques.**

Paper 7D: DIGITAL IMAGING

- **Gain knowledge about Types of Graphics, Types of Objects and Types of video editing tools**
- **Show their skills in editing and altering photographs for through a basic understanding of the tool box.**
- **Gain knowledge in using the layers.**
- **Gain knowledge in using the selection tools, repair tools.**
- **Gain knowledge in using selection tools, applying filters and can show their skills.**