

Mrs. K.S.K. College Beed

Department Of Computer science

Course Outcomes

BSc. COMPUTER SCIENCE FIRST YEAR

M1-DSC-1: Basics of Computer

- i) Understand the Fundamentals of Computers.
- ii) Identify and Describe Computer Hardware Components.
- iii) Differentiate between System and Application Software.
- iv) Comprehend Basic Programming Concepts.
- v) Understand Computer Networks and Internet Technologies

SEC-4 A: HTML and CSS

- i) Understand fundamentals of web technologies.
- ii) Construct visually appealing static web page.
- iii) Understand linking in web page.
- iv) Understand basics of forms.
- v) Use CSS for enhanced presentation and user experience.

GE/OE-1: Cyber Security

- 1. Understands the concept and process of cyber security.
- 2. Understands the Online Dispute Resolution.
- 3. Knows the Network & Mobile Security Techniques

M1-DSC-7: Programming in C

- i) Implement basic C programs
- ii) Develop and implement conditional and iterative statements
- iii) Implement different types of arrays
- iv) Develop and implement modular applications in C using functions
- v) Implement structure and pointers

VSC-1: B) Computer Hardware.

- i) Perform Basic Trouble shooting.
- ii) Installation of Operating System, and device drivers.
- iii) Basic maintenance like Antivirus installation and updating and system scanning
- iv) Upgrading a PC
- v) Able to assemble a Desktop PC

GE/OE-2: E-Commerce and E-Contracts

- 1. Understand issues in e-commerce.
- 2. Understand E-Commerce and E-Business-Models and Approaches.

BSc. COMPUTER SCIENCE SECOND YEAR

CS/DSC/T/200: Fundamentals of PHP

- i) Understand PHP Basics.
- ii) Implement Control Structures.
- iii) Manage Data Using Arrays and Functions.

CS/DSC/T/201: Data Structure

- i) Understand the Fundamentals of Data Structures
- ii) Implement sorting using array & String.
- iii) Develop and Apply Linked Lists, Stacks and Queues

Minor-1: E-Governance

- i) Understand the importance of e-Governance in modern administration.
- ii) Analyze various models and frameworks of e-Governance.
- iii) Evaluate the role of ICT in public administration and citizen services.

Minor-2: Data Entry Tools and Software

- i) Understand the importance of data entry in various industries.
- ii) Use common data entry tools and software effectively.
- iii) Ensure accuracy and speed in data entry operations.

CS/VSC/T/200 (A): Introduction to MySql

- i) Explain the architecture and types of DBMS.
- ii) Design simple relational databases using appropriate keys and constraints.
- iii) Use SQL commands for database creation, data manipulation, and querying.
- iv) Implement joins and subqueries to retrieve data from multiple tables.
- v) Demonstrate proficiency in using MySQL for database operations.

CS/GE/OE/T/200-3: E-Business

- i) Understand Core E-Business Concepts.
- ii) Differentiate E-Business Models.
- iii) Analyze Online Transactions & Payment Systems.
- iv) Evaluate Security & Legal Issues in E-Business.

CS/DSC/T/250: Advanced PHP

- i) Apply advanced PHP programming concepts including OOP and file handling.
- ii) Create secure, database-driven web applications using PHP and MySQL.
- iii) Implement session management, cookies, and authentication in web apps.
- iv) Use PHP to validate forms and handle user input securely.
- v) Build simple APIs and understand PHP MVC framework structure

Minor-3: M-Governance

- i) Understand the significance of M-Governance in public administration and citizen engagement.
- ii) Analyze various M-Governance models, services, and applications.
- iii) Evaluate the role of mobile apps, SMS, and digital payment systems in government services.

Minor-4: Smart Devices & Automation

- i) Understand the fundamentals of smart devices and automation.
- ii) Identify different components used in smart automation systems.
- iii) Work with IoT-based smart devices for home and industrial applications.

CS/SEC/T/250: Introduction to IoT

- i) Understand the fundamental concepts and terminology of IoT.
- ii) Identify the key components and architecture of IoT systems.
- iii) Recognize various sensors, actuators, and communication protocols used in IoT.
- iv) Appreciate the scope and applications of IoT across industries.

v) Demonstrate basic knowledge through a simple hands-on activity or mini-project.

CS/GE/OE/T/250: Ethical Hacking

- i) Understand the role of ethical hacking in cyber security.
- ii) Identify security vulnerabilities in systems and networks.
- iii) Understand legal and ethical aspects of hacking.

BSc. COMPUTER SCIENCE THIRD YEAR

CS/DSC/T/300: Python-I

- i) Understand Python programming environment and syntax.
- ii) Use variables, operators, and data types in Python.
- iii) Implement decision-making and looping statements.
- iv) Work with Python functions and basic data structures.
- v) Develop simple Python programs.

CS/DSC/T/301: RDBMS Using SQL

- i) Understand and explain basic RDBMS concepts.
- ii) Apply design principals of normalization
- iii) Use SQL commands to define and manage database structures.
- iv) Design and execute optimized SQL queries to support business requirements.

CS/DSE/T/300: AI Basics

- i) CO1: Explain the basic concepts, history and applications of Artificial Intelligence.
- ii) CO2: Apply basic problem-solving and search techniques.
- iii) CO3: Describe knowledge representation and reasoning methods.
- iv) CO4: Understand fundamental machine learning concepts.
- v) CO5: Identify ethical, social and professional issues in AI systems.

CS/VSC/T/301: Advance Networking

- i) Enumerate the layers of the OSI model and TCP/IP.
- ii) Identify the different types of network devices and their functions within a network.
- iii) Understand the different Wireless technologies.
- iv) Setup & Implement Microsoft Server 2012

CS/Mn/T/300: E-Commerce

- i) Understand the framework and anatomy of ecommerce applications and analyze
- ii) ecommerce consumer, organizational applications
- iii) Infer mercantile process models from both merchant"s and consumer"s view point
- iv) Understand the implementation of Electronic Data Interchange (EDI) in day to day life
- v) Study all the aspects of Intra-Organizational electronic commerce including supply chain management
- vi) Analyze different consumer, information searching methods and resource discovery and information retrieval techniques.

CS/Mn/T/301: Digital Marketing

- i) CO1: Explain the basic concepts, scope and importance of digital marketing.
- ii) CO2: Identify various digital marketing channels and platforms used for business promotion.
- iii) CO3: Describe the role of social media marketing in customer engagement and brand promotion.
- iv) CO4: Understand the basic concepts and types of digital advertising.

CS/DSC/T/350: Python with Data Science

- i) Understand the role of Python in Data Science.
- ii) Use Python libraries such as NumPy and Pandas for data handling.
- iii) Perform basic data analysis operations.
- iv) Visualize data using Python visualization libraries.
- v) Apply Python techniques for simple data-driven problems

CS/DSC/T/351: Programing in ASP.NET

- i) Understand the fundamental concepts of the .NET Framework and the C# language fundamentals.
- ii) Apply object-oriented programming (OOP) principles (classes, inheritance, etc.) in C# applications.
- iii) Design and develop dynamic web applications using ASP.NET, incorporating standard web server controls and master pages.
- iv) Connect web applications to databases and perform data manipulation using ADO.NET.
- v) Debug, test, and deploy ASP.NET applications effectively.

CS/DSE/T/351: Word-Press

- i) Understand Word-Press Basics.
- ii) Writing and managing personal and commercial blogs.
- iii) Hosting a blog on wordPress.org.
- iv) Publish a private or public blog.

CS/Mn/T/350: Ethics and Cyber Law

- i) Understand professional and ethical responsibilities in software and IT industries.
- ii) Identify and analyze cyber crimes and security threats.
- iii) Apply provisions of cyber law in system design and data handling.
- iv) Ensure legal and ethical compliance in computing practices

CS/Mn/T/351: Social Media Marketing

- i) Interpret the significance of digital marketing in the context of traditional marketing practices.
- ii) Illustrate the various types of digital marketing channels and their respective advantages and disadvantages.
- iii) Paraphrase the role of search engine optimization (SEO) in improving website visibility and ranking on search engine results pages.
- iv) Construct a comprehensive social media marketing strategy