Government PG College, Ambala Cantt

Course File(Session 2023-24)

Name of Professor: DR. RUCHI

Class: BCA/ 6ᵀᴴ SEMESTER

Maximum Marks: 100

External: 80   Minimum Pass Marks: 35   Internal: 20

Time: 3 hours

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of objective type/short-answer type questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. Student will be required to attempt FIVE questions in all. Question Number 1 will be compulsory. In addition to compulsory question, student will have to attempt four more questions selecting one question from each Unit. All questions will carry equal marks.

UNIT – I Interactivity Tool - JavaScript: Introduction, Features, Data types, Operators, Statements, Functions, Event Handling, Use of Predefined Object and Methods, Frames, Windows, Tables, Images, Links Interactivity Tool - VBScript: Introduction, Features, Variables, Data Types, Numeric and Literal Constants, Arrays, Operators, Subroutine Procedures, Function Procedures, Control Statements, Strings, Message and Input Boxes, Date and Time, Event Handlers, Embedding VBScript in HTML

UNIT – II Interactivity Tool - Active Script Pages – Introduction, Features, Client-Server Model, Data Types, Decision Making Statements, Control statements, Use of Various Objects of ASP, Various Techniques of Connecting to Database Other Interactivity Tools - Macromedia Flash, Macromedia Dreamweaver, PHP: Basic Introduction and Features

UNIT – III DHTML: Introduction, Features, Events, Dynamic Positioning, Layer Object, Properties of STYLE, Dynamic Styles, Inline Styles, Event Handlers; Cascading Style Sheets (CSS): Basic Concepts, Properties, Creating Style Sheets; Common Tasks with CSS: Text, Fonts, Margins, Links, Tables, Colors; Marquee; Mouseovers; Filters and Transitions; Adding Links; Adding Tables; Adding Forms; Adding Image and Sound; Use of CSS in HTML Documents Linking and Embedding of CSS in HTML Document

UNIT – IV Microsoft FrontPage: Introduction, Features, Title Bar, Menu bar, FrontPage Tool Bar, Style, FontFace and Formatting Bar, Scroll Bars XML: Introduction, Features, XML Support and Usage, Structure of XML Documents, Structures in XML, Creating Document Type Declarations, Flow Objects, Working with Text and Font, Color and Background Properties;

Mitchell and Atikinson, "Active Sever Pages" – Techmedia Publishing• Paul Wilton, "Beginning JavaScript" – Wiley India Pvt. Ltd. • Jon Duckett, "Beginning web programming with HTML, XHTML, CSS and JavaScript" – Wiley India Pvt. Ltd. •TEXT BOOKS: Adrian Kingsley ,"VB Script Programming

Reference" – Wiley India Pvt. Ltd

.• Internet and Web Design, ITLESL Research and Development Wing, Macmillan Indi

• Ramesh Bangia, "Multimedia and Web Technology", Firewall Media.

• Raj Kamal, "Internet and Web Technologies", Tata McGraw-Hill.

• Deitel and Goldberg, "Internet and World Wide Web", How to Program, PHI.

• Thomas A. Powell, "Web Design: The Complete Reference", 4/e, /Tata McGraw-Hill •REFERENCE BOOKS:

COURSE OBJECTIVES

The course objectives outlined are as follows:

- **Role of Enterprise and Planning:** Describe how information technology and decision support systems contribute to businesses and analyze current issues within firms to solve business problems.

- **Understand the working of organization Systems:** Explore and define Management Information System (MIS) and its characteristics. Identify the components of an MIS. Understand the framework for understanding MIS. Explain Simon's Model of decision- making and distinguish between structured and unstructured decisions.

- **Fundamental Principles of Computer-Based Business Processes Re-engineering:** Introduce the foundational principles of analysing and designing computer-based information systems, fostering an understanding of the techniques and methodologies employed in this process.

- **Impact of Internet Technology on Electronic Commerce and Business:** Enable students to assess the influence of the Internet and Internet technologies on electronic commerce and business operations. Understand the specific risks and vulnerabilities associated with computer systems in this context.

- **Use of ERP Systems in different Organizational Areas:** Provide students with theoretical models used in examining functional ERP in the areas of personnel, financial, and production management.

These objectives collectively aim to equip students with a comprehensive understanding of how information technology, decision support systems, expert systems, internet technology, and database management systems intersect with business operations. By covering these topics, students will be better prepared to analyze, design, and utilize technological solutions to address contemporary business challenges and enhance organizational competitiveness.

COURSE OUTCOMES

After the successful completion of the course, students will be able to:

- Understand the leadership role of ERP in achieving businesscompetitive advantage through informed decision-making.
- Understand the fundamental concepts of systems and their types.
- Apply the systems approach to analyze and solve complex problems.
- Define an information system and recognize its characteristics.
- Identify different types of information and their role in decision-making process.
- Describe the sub-systems of an information system, including BPR and SCM, and theirmanagement levels.
- Differentiate between CRM, MIS, and DSS in terms of their functions and applications.
- Analyse and synthesize business information and systems to facilitate the evaluation ofstrategic alternatives.
- Effectively communicate strategic alternatives to facilitate decision-making.
- Articulate the fundamental principles of information systems analysis and design.
- Demonstrate the skills necessary to conduct a requirements determination study.
- Analyse how information system impacts a firm.
- Interpret how to use information systems to solve business problems.
- Explore decision support systems and their role in planning, control, and decision-makingprocesses.

Lesson Plan

Week No	Scheduled Dates	Topics to be covered
1	1-6 January	Enterprise: concept and functions; process approach to business.
2	8-13 January	types of information in business.
3	15-20 January	systems approach to information management
4	22-27 January	Revision, Test, Assignment-1.
5	29-3 February	Integrated data model.
6	5-10 February	ERP: concept, origin and need, reasons of growth of ERP.
7	12-17 February	Introduction to ERP technologies: business process reengineering. Oral Test.
8	19-24 February	management information system Revision, Test.
9	26-2 March	Decision support system; executive information system.
10	4-9 March	supply chain management system. Oral Test
11	11-16 March	ERP modules: finance,
12	18-23 March	sales and distribution Revision, Test. Assignment-2
13	1-6 April	Manufacturing, inventory management.
14	8-13 April	CRM, etc., vendours for ERP.
15	15-20 April	implementing ERP solutions. Revision, Test,.