

# **BUDHA DAL PUBLIC SCHOOL, PATIALA**

## **LESSON PLAN OF CLASS VIII (SUBJECT: COMPUTER)**

### **Term –I & Term-II Syllabus (Session 2024-25)**

#### **Term –I**

**Chapter-1**Computer Network

**Chapter-3** E-Commerce and Blogging

**Chapter-4** MySQL

**Chapter-5** HTML5- Form and Multimedia

#### **Term –II**

**Chapter-6** Javascript-An Introduction

**Chapter-8** Python-Looping and Tkinter GUI

**Chapter-9** Data Science- An Introduction

**Chapter-10**Future Possibilities of AI

Month Wise Distribution

#### **April**

**Chapter-1**Computer Network

#### **May**

**Chapter-3** E-Commerce and Blogging

#### **July**

**Chapter-4** MySQL

#### **August**

**Chapter-5** HTML5- Form and Multimedia

#### **September**

First Term Examination

#### **October**

**Chapter-6** Javascript-An Introduction

#### **November**

**Chapter-8** Python-Looping and Tkinter GUI

#### **December**

**Chapter-9** Data Science- An Introduction

#### **January**

**Chapter-10**Future Possibilities of AI

#### **February**

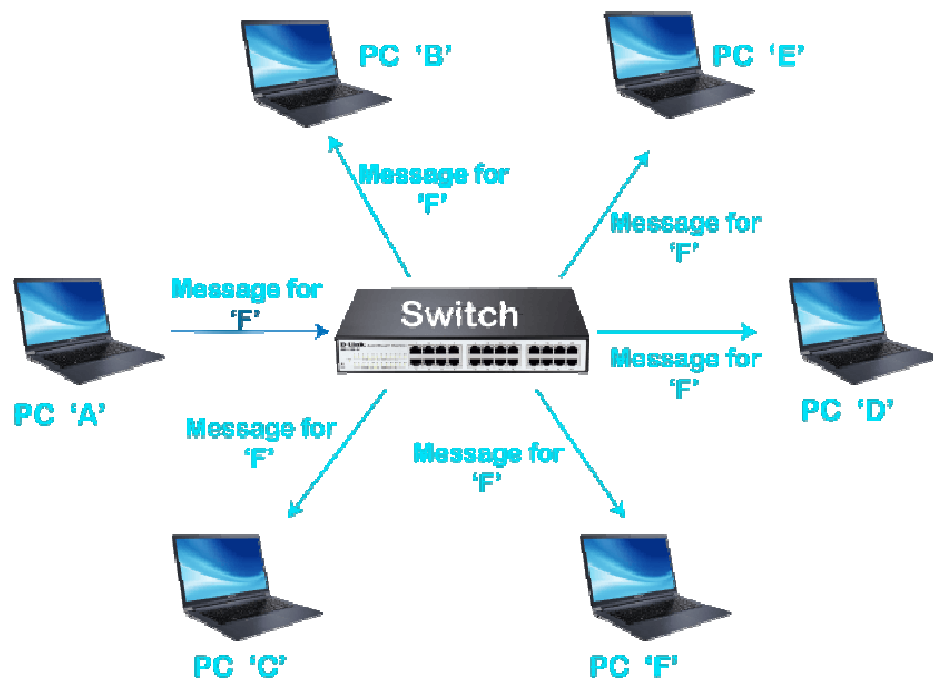
Revision

March

Final Term Examination

**Term-I**

## **April – Chapter 1: Computer Network**



### **Lesson Plan: Chapter 1 - Computer Network**

- **Topics:**

- Introduction to Computer Networks
- Types of Networks (LAN, WAN, MAN)
- Network Topologies
- Network Devices (Router, Switch, Hub)
- Basics of Network Protocols (TCP/IP, HTTP, FTP)

- **Learning Objectives:**

- Understand the basics of computer networks and their importance.
- Identify different types of networks and their characteristics.
- Learn about various network topologies and their applications.

- Recognize different network devices and their functions.
- Understand basic network protocols and their roles.
- **Art & Integrated Activity/Project/Practical:**
  - Create diagrams of different network topologies.
  - Hands-on activities setting up simple networks.
  - Research and presentations on network devices and protocols.
  - Simulate basic networking using network simulation software.
- **Expected Learning Outcomes:**
  - Students will understand the basics and importance of computer networks.
  - They will identify and describe different types of networks and topologies.
  - Students will recognize and understand the functions of various network devices.
  - They will have a basic understanding of network protocols.
- **Assignment and Assessments/Test:**
  - Assignments on network topologies and devices.
  - Quizzes on types of networks and network protocols.
  - Practical tests on setting up simple networks.
- **Remedial Measures:**
  - Extra practice sessions and step-by-step guides on network basics.
  - Video tutorials on network topologies and devices.
  - Personalized feedback and one-on-one assistance for specific challenges.

## May – Chapter 3: E-Commerce and Blogging



## **Lesson Plan: Chapter 3 - E-Commerce and Blogging**

- **Topics:**

- Introduction to E-Commerce
- Types of E-Commerce Models (B2B, B2C, C2C, C2B)
- Basics of Setting Up an Online Store
- Introduction to Blogging
- Blogging Platforms and Content Creation

- **Learning Objectives:**

- Understand the fundamentals of e-commerce and its models.
- Learn the basics of setting up and managing an online store.
- Explore blogging and its importance in digital communication.
- Identify various blogging platforms and their features.
- Create and publish blog content.

- **Art & Integrated Activity/Project/Practical:**

- Create a mock online store with product listings.
- Research and presentations on different e-commerce models.
- Set up a blog on a chosen platform and publish posts.
- Develop content plans and schedules for blogging.

- **Expected Learning Outcomes:**

- Students will understand the fundamentals of e-commerce.
- They will learn how to set up and manage an online store.
- Students will explore the world of blogging and content creation.
- They will identify different blogging platforms and their features.
- Students will create and publish blog content effectively.

- **Assignment and Assessments/Test:**

- Assignments on creating a mock online store and blogging.
- Quizzes on e-commerce models and blogging platforms.
- Practical tests on setting up an online store and blog.

- **Remedial Measures:**

- Extra practice sessions and step-by-step guides on e-commerce and blogging.
- Video tutorials on setting up online stores and blogs.
- Personalized feedback and one-on-one assistance for specific challenges.
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## July – Chapter 4: MySQL



### Lesson Plan: Chapter 4 - MySQL

- **Topics:**

- Introduction to MySQL and Databases
- Basic SQL Commands (SELECT, INSERT, UPDATE, DELETE)
- Creating and Managing Databases
- Using Queries to Retrieve Data
- Database Normalization

- **Learning Objectives:**

- Understand the basics of MySQL and database management.
- Learn and execute basic SQL commands.
- Create and manage databases effectively.
- Use queries to retrieve and manipulate data.
- Understand the principles of database normalization.

- **Art & Integrated Activity/Project/Practical:**

- Hands-on practice with SQL commands and queries.
- Create and manage databases using MySQL.
- Develop projects involving data retrieval and manipulation.
- Explore normalization techniques through practical examples.

- **Expected Learning Outcomes:**

- Students will understand the basics of MySQL and database management.

- They will execute basic SQL commands effectively.
- Students will create and manage databases using MySQL.
- They will retrieve and manipulate data using queries.
- Students will understand and apply database normalization principles.
- **Assignment and Assessments/Test:**
  - Assignments on executing SQL commands and managing databases.
  - Quizzes on SQL commands and database principles.
  - Practical tests on creating and managing databases.
- **Remedial Measures:**
  - Extra practice sessions and step-by-step guides on MySQL and SQL commands.
  - Video tutorials on executing SQL commands and managing databases.
  - Personalized feedback and one-on-one assistance for specific challenges.

## August – Chapter 5: HTML5 – Form and Multimedia



### Lesson Plan: Chapter 5 - HTML5: Form and Multimedia

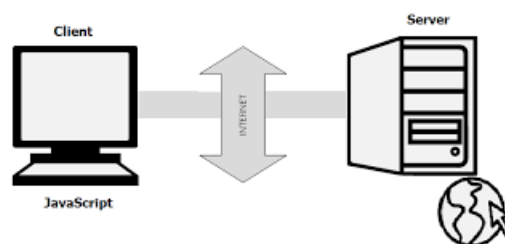
- **Topics:**
  - Introduction to HTML5 Forms
  - Creating and Validating Forms
  - Adding Multimedia Elements (Audio, Video)
  - Embedding Multimedia in Web Pages

- HTML5 Form Attributes and Elements
- **Learning Objectives:**
  - Understand the basics of HTML5 forms and multimedia.
  - Create and validate forms using HTML5.
  - Add and embed multimedia elements in web pages.
  - Explore various HTML5 form attributes and elements.
- **Art & Integrated Activity/Project/Practical:**
  - Hands-on projects creating and validating HTML5 forms.
  - Embed multimedia elements in web pages.
  - Develop web pages incorporating forms and multimedia.
  - Practice using various HTML5 form attributes and elements.
- **Expected Learning Outcomes:**
  - Students will understand the basics of HTML5 forms and multimedia.
  - They will create and validate forms using HTML5.
  - Students will add and embed multimedia elements in web pages.
  - They will use various HTML5 form attributes and elements effectively.
- **Assignment and Assessments/Test:**
  - Assignments on creating and validating HTML5 forms.
  - Quizzes on HTML5 form attributes and multimedia elements.
  - Practical tests on embedding multimedia in web pages.
- **Remedial Measures:**
  - Extra practice sessions and step-by-step guides on HTML5 forms and multimedia.
  - Video tutorials on creating and validating forms, and embedding multimedia.
  - Personalized feedback and one-on-one assistance for specific challenges.

## September – First Term Examination

### Term-II

## October – Chapter 6: JavaScript – An Introduction

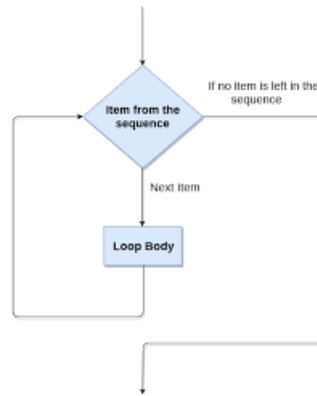


## **Lesson Plan: Chapter 6 - JavaScript: An Introduction**

- **Topics:**
  - Basics of JavaScript
  - JavaScript Syntax and Data Types
  - Variables and Operators
  - Functions and Events
  - Integrating JavaScript with HTML
- **Learning Objectives:**
  - Understand the basics of JavaScript and its role in web development.
  - Learn JavaScript syntax and data types.
  - Use variables and operators in JavaScript programs.
  - Create and use functions and handle events in JavaScript.
  - Integrate JavaScript with HTML for dynamic web pages.
- **Art & Integrated Activity/Project/Practical:**
  - Hands-on programming exercises with JavaScript.
  - Develop simple interactive web pages using JavaScript.
  - Practice using functions and handling events in JavaScript.
  - Integrate JavaScript with HTML in various projects.
- **Expected Learning Outcomes:**
  - Students will understand the basics of JavaScript.
  - They will use JavaScript syntax, data types, variables, and operators effectively.
  - Students will create and use functions and handle events in JavaScript.
  - They will integrate JavaScript with HTML for dynamic web pages.
- **Assignment and Assessments/Test:**
  - Assignments on JavaScript syntax, data types, and functions.
  - Quizzes on JavaScript basics and event handling.
  - Practical tests on integrating JavaScript with HTML.
- **Remedial Measures:**
  - Extra practice sessions and step-by-step guides on JavaScript basics.
  - Video tutorials on JavaScript programming and event handling.
  - Personalized feedback and one-on-one assistance for specific challenges.

**November – Chapter 8: Python – Looping and Tkinter GUI**





## Lesson Plan: Chapter 8 - Python: Looping and Tkinter GUI

- **Topics:**

- Looping Constructs (for, while) in Python
- Nested Loops and Loop Control Statements
- Introduction to Tkinter GUI Programming
- Creating Basic GUIs with Tkinter
- Integrating Looping Constructs in Tkinter Projects

- **Learning Objectives:**

- Understand and use looping constructs in Python.
- Apply nested loops and loop control statements.
- Learn the basics of Tkinter GUI programming.
- Create basic GUIs using Tkinter.
- Integrate looping constructs in Tkinter projects.

- **Art & Integrated Activity/Project/Practical:**

- Hands-on programming exercises with loops and Tkinter.
- Develop basic GUI applications using Tkinter.
- Practice integrating loops in Tkinter projects.
- Explore creative GUI projects with looping constructs.

- **Expected Learning Outcomes:**

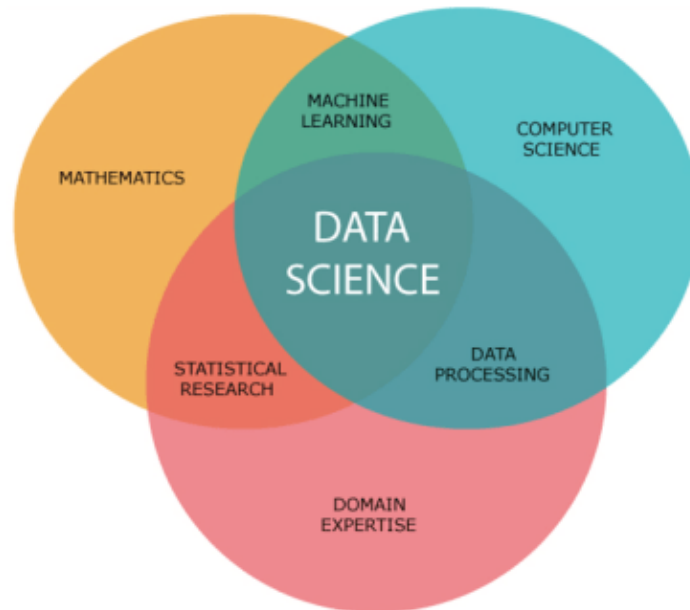
- Students will understand and use looping constructs in Python.
- They will create basic GUIs using Tkinter.
- Students will integrate loops in Tkinter projects.
- They will develop creative GUI projects using Python.

- **Assignment and Assessments/Test:**

- Assignments on looping constructs and Tkinter GUI programming.
- Quizzes on loops and Tkinter basics.

- Practical tests on developing GUI applications with loops.
- **Remedial Measures:**
  - Extra practice sessions and step-by-step guides on loops and Tkinter.
  - Video tutorials on Tkinter GUI programming.
  - Personalized feedback and one-on-one assistance for specific challenges.

## December – Chapter 9: Data Science – An Introduction

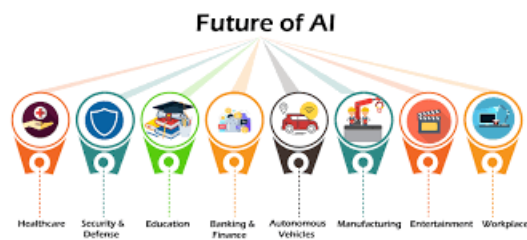


### Lesson Plan: Chapter 9 - Data Science: An Introduction

- **Topics:**
  - Introduction to Data Science and Its Importance
  - Data Collection and Preparation
  - Basics of Data Analysis and Visualization
  - Tools and Technologies in Data Science (Python, R, SQL)
  - Case Studies in Data Science
- **Learning Objectives:**
  - Understand the basics of data science and its importance.
  - Learn data collection and preparation techniques.
  - Explore basic data analysis and visualization methods.
  - Get acquainted with tools and technologies used in data science.
  - Analyze case studies to understand real-world applications.
- **Art & Integrated Activity/Project/Practical:**

- Hands-on activities in data collection and preparation.
- Practice basic data analysis and visualization.
- Explore tools like Python, R, and SQL for data science tasks.
- Research and presentations on data science case studies.
- **Expected Learning Outcomes:**
  - Students will understand the basics and importance of data science.
  - They will learn data collection and preparation techniques.
  - Students will explore basic data analysis and visualization methods.
  - They will get acquainted with data science tools and technologies.
  - Students will analyze case studies to understand real-world applications.
- **Assignment and Assessments/Test:**
  - Assignments on data collection, preparation, and analysis.
  - Quizzes on data science basics and tools.
  - Practical tests on data analysis and visualization.
- **Remedial Measures:**
  - Extra practice sessions and step-by-step guides on data science.
  - Video tutorials on data analysis and visualization.
  - Personalized feedback and one-on-one assistance for specific challenges.

## January – Chapter 10: Future Possibilities of AI



### **Lesson Plan: Chapter 10 - Future Possibilities of AI**

- **Topics:**
  - Current Trends in AI
  - Emerging AI Technologies and Innovations
  - AI Applications in Various Industries
  - Ethical and Societal Implications of AI
  - Future Prospects and Challenges in AI

- **Learning Objectives:**
  - Explore current trends and emerging technologies in AI.
  - Understand the applications of AI in various industries.
  - Discuss the ethical and societal implications of AI.
  - Analyze the future prospects and challenges of AI.
- **Art & Integrated Activity/Project/Practical:**
  - Research and presentations on current AI trends and technologies.
  - Case studies on AI applications in different industries.
  - Debates and discussions on ethical and societal implications of AI.
  - Projects exploring future prospects and challenges in AI.
- **Expected Learning Outcomes:**
  - Students will explore current trends and emerging technologies in AI.
  - They will understand AI applications in various industries.
  - Students will discuss the ethical and societal implications of AI.
  - They will analyze the future prospects and challenges of AI.
- **Assignment and Assessments/Test:**
  - Assignments on current AI trends and applications.
  - Quizzes on AI technologies and ethical implications.
  - Practical tests on analyzing AI case studies.
- **Remedial Measures:**
  - Extra practice sessions and step-by-step guides on AI topics.
  - Video tutorials on AI trends and technologies.
  - Personalized feedback and one-on-one assistance for specific challenges.

**February – Revision for Final Exam**

**March – Final Term Examination**