



## SHETTY INSTITUTE OF TECHNOLOGY, KALABURAGI

Date: 16/10/2020

### CIRCULAR

All the Students are hereby informed to attend the Certification course on "**CLOUD COMPUTING**" from 23-Nov-20 onwards in Seminar Hall without fail. Attendance will be recorded every day.

**Copy to:**

- 1) All the Department HOD's
- 2) Classrooms
- 3) Notice Board
- 4) Principal Office
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# **SHETTY INSTITUTE OF TECHNOLOGY KALABURAGI**



## **CERTIFICATION COURSE**

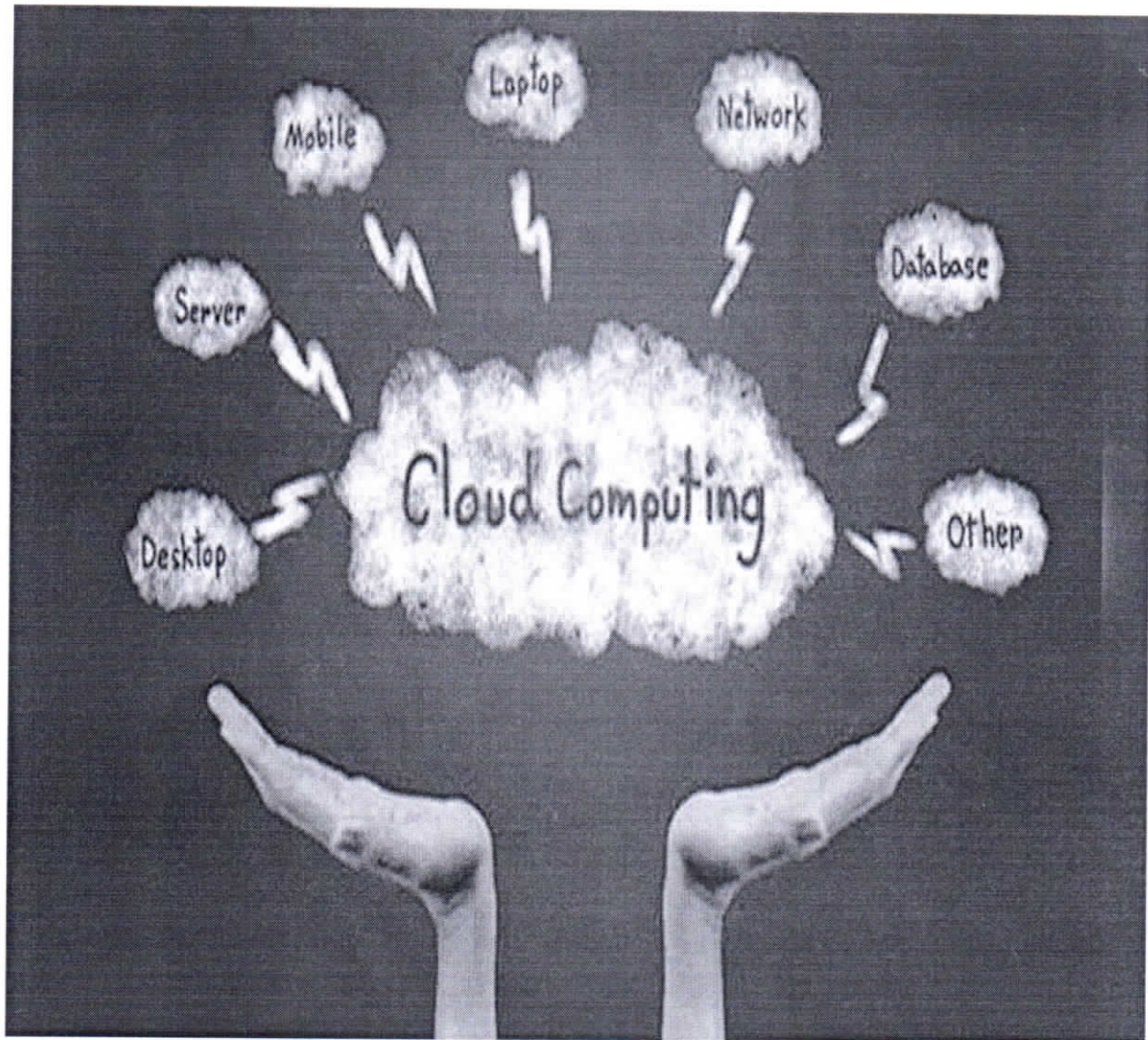
### **SYLLABUS**

**ACADEMIC YEAR 2020-2021**

  
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# CLOUD COMPUTING

## Course Overview:

This course introduces the basics of cloud computing. Students will learn about cloud services, deployment models, and practical applications. The course will also cover essential tools and technologies used in cloud computing.

## Course Objectives:

- Understand the fundamentals of cloud computing.
- Learn about different cloud services and deployment models.
- Explore practical applications and benefits of cloud computing.
- Gain hands-on experience with cloud platforms and tools.

## SYLLABUS

### 1. Introduction to Cloud Computing


- What is Cloud Computing?
  - Definition and key concepts
  - Benefits and challenges
- History and Evolution
  - Development of cloud computing
  - Key milestones

### 2. Cloud Service Models

- Infrastructure as a Service (IaaS)
  - Overview and examples
  - Use cases and benefits
- Platform as a Service (PaaS)
  - Overview and examples
  - Use cases and benefits
- Software as a Service (SaaS)
  - Overview and examples
  - Use cases and benefits

### 3. Cloud Deployment Models

- Public Cloud
  - Features and examples
  - Advantages and disadvantages
- Private Cloud

  
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- Features and examples
- Advantages and disadvantages
- Hybrid Cloud
  - Features and examples
  - Advantages and disadvantages

#### 4. Cloud Providers and Services

- Major Cloud Providers
  - Overview of AWS, Azure, Google Cloud, etc.
  - Key services offered by each provider
- Cloud Storage and Databases
  - Cloud storage options and features
  - Cloud database services and benefits

#### 5. Cloud Security and Best Practices

- Security in the Cloud
  - Key security concerns
  - Best practices for cloud security
- Compliance and Data Privacy
  - Understanding compliance requirements
  - Ensuring data privacy in the cloud

#### 6. Hands-On Practice and Projects

- Setting Up Cloud Accounts
  - Creating accounts on AWS, Azure, or Google Cloud
  - Navigating cloud dashboards
- Deploying Applications
  - Simple application deployment on the cloud
  - Managing and monitoring cloud applications

  
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## SHETTY INSTITUTE OF TECHNOLOGY, KALABURAGI

Date: 12/10/2020

### CIRCULAR

All the Students are hereby informed to attend the Certification course on "AUTODESK RIVET" from 20 Oct 2020 onwards in Seminar Hall without fail. Attendance will be recorded every day.

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## **CERTIFICATION COURSE**

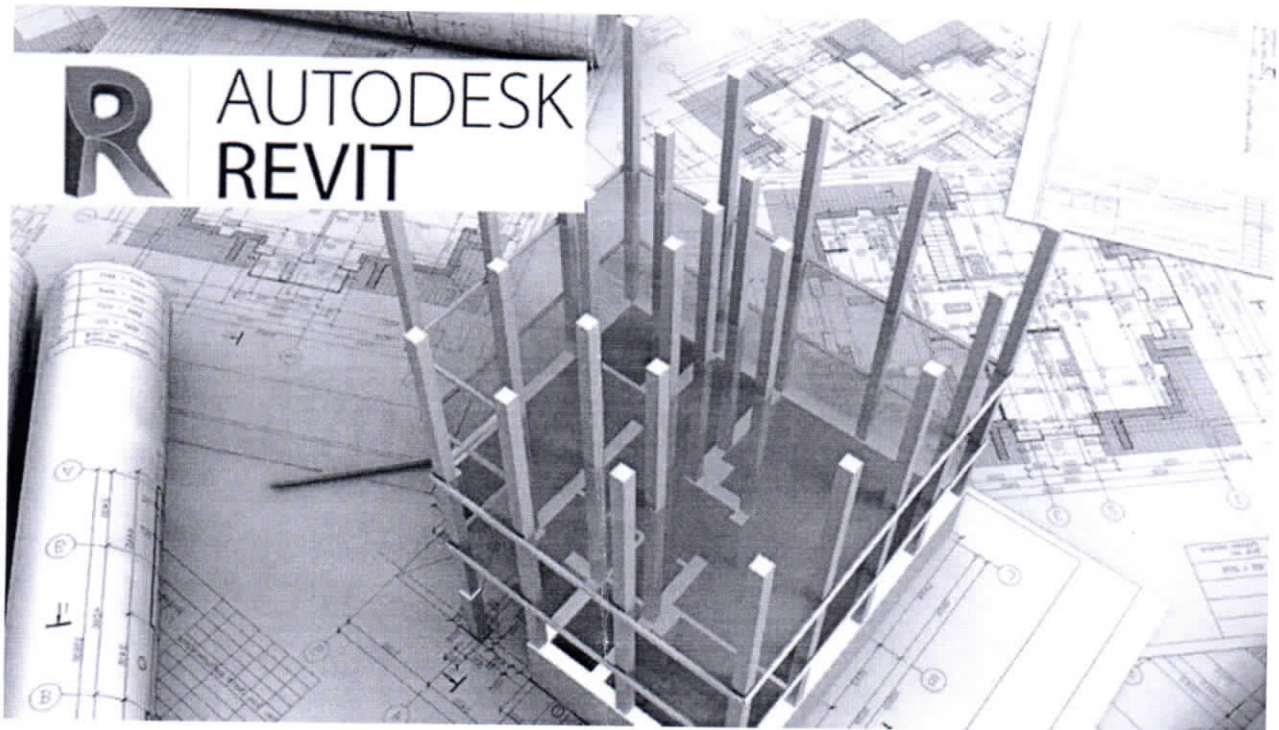
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## AUTODESK REVIT

### Course Description:

This course introduces students to Autodesk Revit, a powerful Building Information Modeling (BIM) software used in architecture, engineering, and construction. Students will learn to create detailed architectural designs, perform structural modeling, and produce construction documents. The course includes lectures, hands-on labs, and projects to provide practical experience with Revit.

### Course Objectives:

- Introduce the basics of Autodesk Revit software and its interface.
- Teach students how to create and modify architectural models, including walls, doors, windows, and roofs.
- Explain how to perform structural modeling within Revit.
- Cover fundamental principles of using Revit for construction documentation.

### SYLLABUS

1. Introduction to Autodesk Revit
  - Overview of Revit software
  - Installation and basic navigation
2. Basic Modeling Techniques
  - Creating and modifying walls, doors, and windows Hands-on lab
3. Working with Roofs and Floors
  - Designing roofs and floors Hands-on lab
4. Creating Building Components
  - Adding and modifying building components Hands-on lab
5. Structural Modeling
  - Introduction to structural elements Hands-on lab

  
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Date: 31/05/2021

## **CIRCULAR**

All the Students are hereby informed to attend the Certification course on "**WEB DEVELOPMENT USING REACT JS**" from 7-Jun-21.

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## CERTIFICATION COURSE

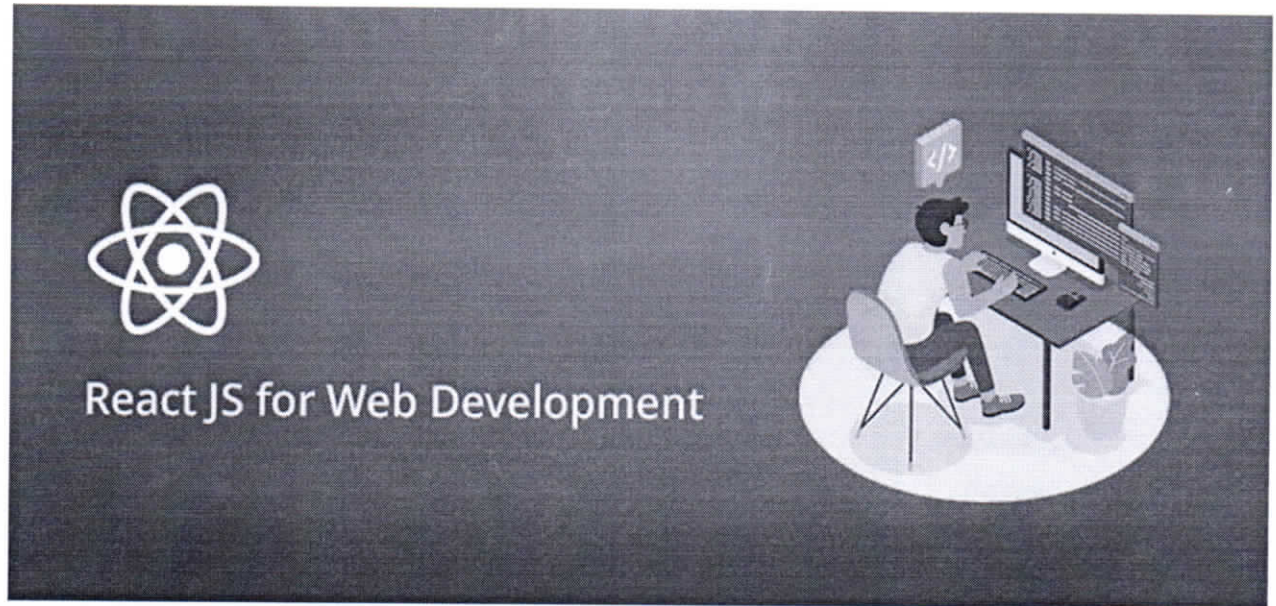
### SYLLABUS

**ACADEMIC YEAR 2020-2021**

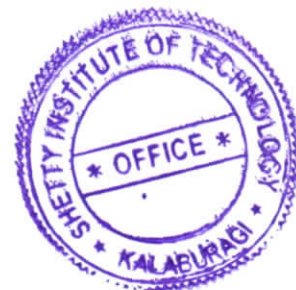
  
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# WEB DEVELOPMENT USING REACT JS

## Course Overview:

This course introduces students to modern web development using React JS, a popular JavaScript library for building user interfaces. Students will learn fundamental concepts, develop practical skills in React JS, and build interactive web applications.

## Course Objectives:

- Understand the basics of web development and React JS.
- Learn to build interactive and responsive web applications.
- Gain practical experience with React JS components and state management.
- Develop skills for debugging and deploying React JS applications.

## SYLLABUS

### 1. Introduction to Web Development and React JS

- Overview of Web Development
  - Introduction to front-end and back-end development
  - Role of React JS in modern web development
- Getting Started with React JS
  - Setting up development environment (Node.js, npm/yarn)
  - Creating your first React application

### 2. React JS Fundamentals

- React Components
  - Understanding components and props
  - Creating functional and class components
- JSX (JavaScript XML)
  - Syntax and usage in React applications
  - JSX expressions and attributes

### 3. State Management in React

- React State and Lifecycle
  - Managing component state
  - Lifecycle methods in React
- Handling Events
  - Event handling in React components
  - Binding events and using arrow functions

  
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#### 4. Building React Applications

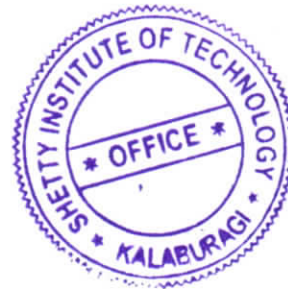
- Routing with React Router
  - Implementing client-side routing
  - Creating nested routes and route parameters
- Styling React Components
  - CSS Modules and styled-components
  - Applying styles to React components

#### 5. Fetching Data and APIs

- Making HTTP Requests
  - Using Fetch API or Axioms for data fetching
  - Handling asynchronous operations in React
- Integrating with APIs
  - Consuming RESTful APIs in React applications
  - Displaying fetched data in components



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# SHETTY INSTITUTE OF TECHNOLOGY, KALABURAGI

Date: 3/12/2020

## CIRCULAR

All the Students are hereby informed to attend the Certification course on "ETABS" from 14-Dec-20 onwards in Seminar Hall without fail. Attendance will be monitored every day

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## **CERTIFICATION COURSE**

### **SYLLABUS**

**ACADEMIC YEAR 2020-2021**

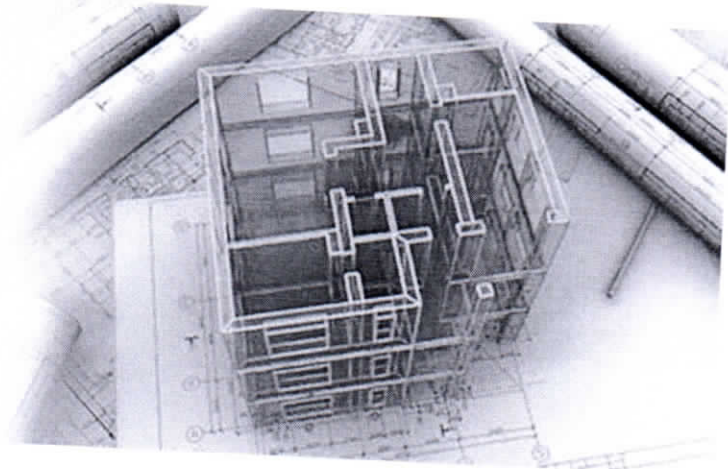
  
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**ETABS<sup>®</sup>**



  
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## ETABS

### Course Description:

This course is designed to provide students with a comprehensive understanding of ETABS, a powerful structural analysis and design software used in civil engineering. Through a combination of lectures, hands-on labs, and projects, students will learn to model, analyze, and design buildings and other structures. By the end of the course, students will have the skills necessary to effectively use ETABS in professional practice.

### Course Objectives:

- Introduction to ETABS: Understand the basics of the ETABS software interface and its capabilities.
- Modeling Structures: Learn to create and modify structural models, including geometry, materials, and loads.
- Analysis Techniques: Understand various structural analysis methods and how to apply them in ETABS.
- Design Principles: Learn the fundamentals of designing structural components using ETABS.


## SYLLABUS

1. Introduction to ETABS
  - Overview of ETABS software
  - Installation and basic navigation
2. Basic Modeling Techniques
  - Creating simple models
  - Hands-on lab
3. Defining Materials and Sections
  - Assigning materials and sections to the model

### Hands-on lab

4. Applying Loads and Boundary Conditions
  - Applying various types of loads
  - Setting boundary conditions
  - Mid-term quiz preparation
5. Linear Static Analysis
  - Introduction to linear static analysis Hands-on lab



  
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# SHETTY INSTITUTE OF TECHNOLOGY, KALABURAGI

Date: 12/10/2020

## CIRCULAR

All the Students are hereby informed to attend the Certification course on "**DATA INTERPRETATION**" from 19-Oct-20 onwards in Seminar Hall without fail. Attendance will be recorded every day.

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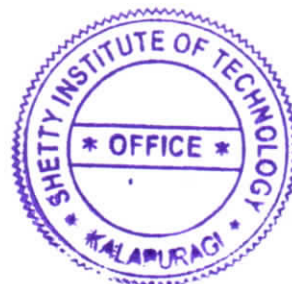


## CERTIFICATION COURSE

### SYLLABUS

**ACADEMIC YEAR 2020-2021**

  
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## DATA INTERPRETATION

### Course Overview:

This course covers the fundamental skills needed to interpret and analyze data. Students will learn various methods of data representation, develop critical thinking skills to interpret data, and apply these skills to solve real-world problems.

### Course Objectives:

- Understand different types of data and their representations.
- Develop skills to interpret data from various sources.
- Apply data interpretation techniques to solve problems.
- Enhance critical thinking and analytical skills.

## SYLLABUS

### 1. Introduction to Data Interpretation

- Importance of Data Interpretation
  - Role in decision-making processes
  - Applications in various fields
- Types of Data
  - Qualitative vs. Quantitative data
  - Structured vs. Unstructured data

### 2. Data Representation

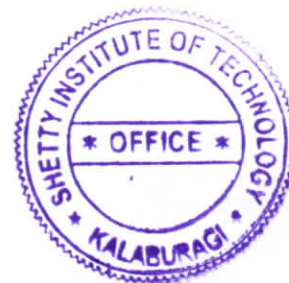
- Tables
  - Creating tables.
  - Interpreting tabular data
- Graphs
  - Types of graphs (bar, line, pie)
  - Reading and interpreting graphs
- Charts and Diagrams
  - Creating charts and diagrams
  - Interpretation techniques

### 3. Data Analysis Techniques

- Basic Statistical Measures
  - Mean, median, mode
  - Standard deviation and variance
- Percentages and Ratios
  - Calculation and interpretation
- Trends and Patterns

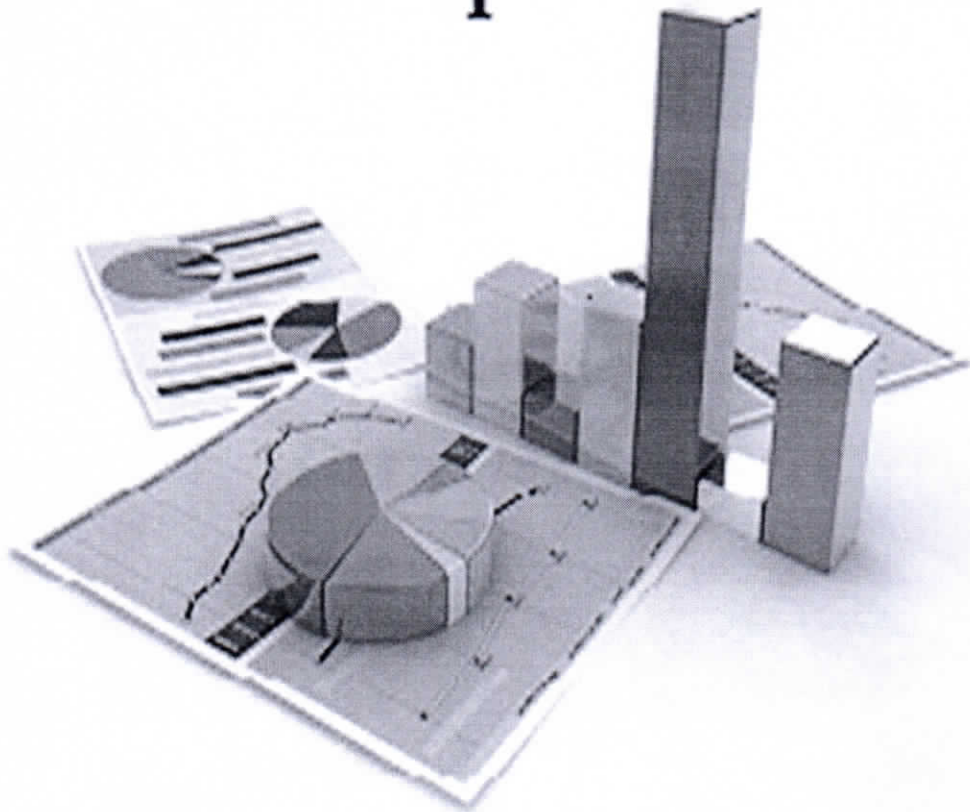


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**Data Interpretation**



  
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- Identifying trends in data
- Pattern recognition techniques

#### **4. Interpreting Different Data Sources**

- Surveys and Questionnaires
  - Designing surveys
  - Analyzing survey results
- Financial Reports
  - Understanding financial data
  - Interpreting key components
- Research Data
  - Interpreting scientific research findings
  - Analyzing research methodologies

#### **5. Practical Applications**

- Case Studies
  - Analyzing case studies from various fields
  - Group discussions and presentations
- Real-World Data Interpretation
  - Applying techniques to real-world scenarios
  - Practical exercises and projects

#### **6. Review and Final Project**

- Review of Key Concepts
  - Summary of important topics covered
  - Question and answer session

  
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