

**BUDHA DAL PUBLIC SCHOOL , SAMANA**

**LESSON PLAN**

**Subject : ECONOMICS**

**CLASS - XI**

Syllabus :

	<b>Part - A (Introductory Micro Economics)</b>
Chapter - 1	Economics and Economy
Chapter - 2	Central Problems of an economy
Chapter - 3	Consumer's Equilibrium - Utility Analysis
Chapter - 4	Consumer's Equilibrium - Indifference curve Analysis
Chapter - 5	Theory of Demand
Chapter - 6	Price Elasticity of Demand
Chapter- 7	Production Function and Return to Factor
Chapter-8	Concepts of cost
Chapter-9	Concepts of Revenue
Chapter-10	Producer's Equilibrium
Chapter-11	Forms of market
Chapter- 12	Theory of Supply
Chapter- 13	Market equilibrium under perfect competition and Effects of shifts in Demand and Supply curves.
	<b>Part - B (Statistics for Economics)</b>

Chapter - 1	Concept of Economics and significance of Statistics in Economics.
Chapter - 2	Collection of Data
Chapter - 3	Census and sample methods of collection of Data
Chapter - 4	Organisation of Data
Chapter - 5	Presentation of Data - Textual and Tabular presentation
Chapter - 6	Diagrammatic presentation of Data - Bar diagrams and Pie Programms
Chapter - 7	Frequency Diagrams - Histograms , Polygon and ogive
Chapter - 8	Arithmetic Live graphs or Time series graphs
Chapter - 9	Measures of Central Tendency - Arithmetic Mean
Chapter- 10	Measures of Central Tendency - Median and Mode
Chapter- 11	Measures of Dispersion
Chapter- 12	Correlation
Chapte - 13	Index Number

## **Project Work**

The purpose of this project work is to enable the students to understand the scope and repercussions of various economic events around the country and the world.

### **Research work will Based Upon The Following Lines**

1. Choose a tittle / topic
2. Introduction
3. Collection of research work
4. Organization of material
5. Any criticism
6. Applications of the concept
7. Present Material
8. Analysing the material
9. Graphs and diagrams
10. Numerical Examples
11. Conclusion
12. Any other valid idea
13. Bibliography.

### **Mode Of Presentation and Submission of the Project**

At the end of the stipulated term, each student will present the research work in the project file to the External examiner and internal Examiner.

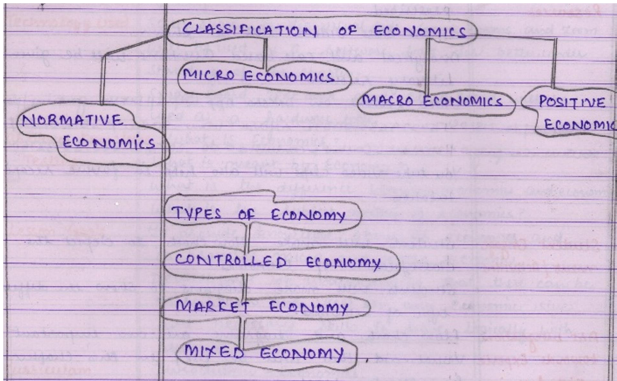
## Recommendation provided for Project work with Art Integration Techniques

Sr. No.	Suggested Topic	Art Integration Technique
1.	Demand and its components	Use of graphs colours
2.	Census and sample technique	Use of date, flow charts, and survey Tech.
3.	Forms of market	Use of colours, sketches, curves and paint
4.	Diagrammatic presentation of data	Use of Bars, graphs, Pie charts, Histograms etc
5.	Impact of Recent Pandemic on Indian Economy	Collage work, PPT
6.	Consumer equilibrium - utility Analysis	Use of curves
7.	Digital India, Step towards future	Use of knowledge of computer graphics
8.	Make in India	Use of media Technique
9.	GST and its impact on GDP	Use of graphs, Flow charts and Media Tech.
10.	Concepts of cost	Use of curves

### Marking Scheme

S.No	Heading	Marks Alloted
1.	Relevance of the topic	3
2.	Knowledge content	6
3.	Presentation tech.	3
4.	VIVA	8
	TOTAL	20

Lesson Title	Chapter - 1 Introduction
Technology used	a) Google forms, Slide Show and Zoom will be used as a software tools for better understanding of the concepts b) Smart board, Text book and Black board will be used as a hardware tools
Previous knowledge Test	1. What is Economics? 2. What is meant by Economic? 3. What is the difference between economics and economy? 4. What is the subject matter of economics?
Lesson Goals	To provide knowledge about the economics and its branches micro and macro economics. Development of understanding that there can be more than one view on any economic issue and necessary skills to argue logically with reasoning.
Curriculum Addressed	Introduction - Economics Scarcity and choice is the essence of economics micro economics and macro economics. Positive and Normative economics. Nature and type of economy.
Other materials / Resources	Assignments and NCERT reference books will be prescribed. Smart class videos will be shown. Analytical and case based questions will be given Library resources. Video lessons on Diksha App Youtube video clips will also help in future recapitulation.
Student Engagement Activities	Students will make flow charts to depict the classification of Economics. Students will make diagrams to show the different type of Economics.
Art integration towards Experiential Learning and Subject enrichment	Flow charts and diagrams are an important visual aid that will be used in this chapter for effective teaching. Competency - This art programme will help in encouraging the students and improve their concentration skills and social skills. It also enhances communication, creative, understanding and listening skills among the students.



Teaching strategies	Interaction and explanation method will be used observe and listen to the students as they interact. Hypothetical situation based questions will be given. PDF of the chapter will be used.
Evaluation	Evaluation will be done through Art integration activity, Flow charts and diagrams. Objectives type questions will be conducted through google form to check the understanding about the topic. Ask question individually.
Recapitulation	The teacher will summarise and restate the main points of the chapter. The understanding of the subject matter can be tested by putting some questions from the chapter and clarify their doubts , which brings attention in the class and provides motivation.
Teacher self - Assessment	Ensure the active participation of the students during the teaching-learning process. All the concepts of this topic will be clear to the students.

Lesson Title	Chapter - 2 Central problems of an economy
Technology used	Screen share, audio - visual aids, google forms and zoom will be used as a software tools for better understanding of the chapter. Understanding of the chapter. Smart Board, Text book and Black board will be used as a hardware tools.
Previous knowledge Test	1. What do you mean by scarcity of resources ? 2. What do you mean by the allocation of resources. 3. Who defines the concept of central problems of an economy. 4. What are the central problems of an economy.
Lesson Goals	To provide knowledge about the central problems of an economy : What ? How ? and For whom to produce? To understand the concept of opportunity cost To understand the causes of economic problem
Curriculum Addressed	What is an economic problem. Central problems of an economy. What to produce                      How to produce                      For whom to produce Solution of central problems in different economics central problems and PPC curve. The concept of opportunity cost The concept of marginal opportunity cost.
Other materials / Resources	Assignment and NCERT reference books will be prescribed. Smart class videos will be shown. Analytical and case based questions will be given library resources. Video lessons on Diksha App situation based questions will be given.

	Youtube video clips will also help in future recapitulation.
Student Engagement Activities	Students will draw curves of PPC as the solution of central problems. Students will draw curve to show the concept of opportunity cost.
Art integration towards Experiential Learning and Subject enrichment	Pictorial presentation of MOC curves and Graphic presentation of production possibility curves are the important visual aid that will be used in this chapter for effective teaching. Competency - This art programme will help in encouraging the students and improve their concentration skills, social skills and communication skills. It also enhance the technical, decision making and problem solving skills among the students.
Teaching strategies	Interaction , Demonstration and explanation method will be used. Observe and listen to the students as they interact. Brain storming technique will be used. Hypothetical situation based questions will be given.
Evaluation	Evaluation will be done through curves and situation based questions. Multiple choice based questions will be conducted through google forms to check the knowledge of the concept.
Recapitulation	The teacher will summarise and restate the main points of the chapter. The understanding of main points of the chapter. The understanding of the subject matter can be tested by putting some questions from the chapter and clarify their doubts, which brings attention in the class and provides motivation.
Teacher self - Assessment	The lesson plan includes active participation of the students during the teaching learning process. All the concepts of this chapter will be clear to the students. The strength of the lesson was latest technology used.

Lesson Title	Chapter - 3 Consumer's Equilibrium - Utility Analysis
Technology used	Screen share, audio - visual aids, google forms and zoom will be used as a software tools for better understanding of the chapter. Understanding of the chapter. Smart Board, Text book and Black board will be used as a hardware tools.
Previous knowledge Test	1. Who is consumer ? 2. What do you mean by Utility? 3. What do you mean by rational consumer. 4. What is meant by consumer equilibrium.
Lesson Goals	To provide knowledge about the consumer's equilibrium using utility analysis. The ability to simplify complex issues and extract the relevant pieces of information. It also creates commercial and cultural awareness.
Curriculum Addressed	Concept of Utility Measurement of utility : Cardinal measurement concepts of Total utility and marginal utility. Concept of consumer's equilibrium and marginal utility analysis Basic limitations of utility analysis.
Other materials / Resources	Assignments and NCERT reference books will be prescribed. Smart class videos will be shown Analytical and case based questions will be given Library resources. Video lessons on Diksha APP Youtube video clips will also help in further recapitulation.
Student Engagement Activities	Students will draw the curves of total utility and Marginal Utility. Students will show the graphical presentation of consumer's Equilibrium under single commodity case and Double commodity case. Students will make pictorial presentation of DMU.
Art integration towards Experiential Learning and Subject enrichment	Project work will be given to the students on the topic consumer equilibrium by using utility analysis, where they explore their ideas by collecting information from different sources and by drawing curves. Students will present pictorial presentation of law of Diminishing marginal utility, where they come to know as they consume more and more units of the same commodity, their marginal utility for commodity comes decline curves of Total utility and marginal utility are also an important visual aid that will be used in this chapter for effective teaching. Competency This art programme will help in encouraging the students, improve their concentration and social skills. It also enhances communication creative, reasoning and problem solving skills among the students.
Teaching strategies	Interaction and explanation method will be used. Observe and listen to the students as they interact. Brain storming technique will be used. Hypothetical situation based questions will be given.



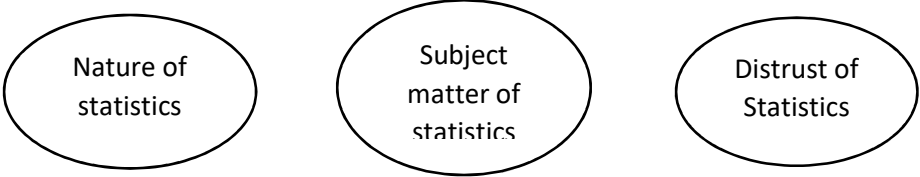
Evaluation	<p>Evaluation will be done through art integrated Activities, subjective Assignments and Flow charts.</p> <p>Objective type questions will be conducted through Google form to check the knowledge of the concept.</p> <p>Group disucssion will be conducted</p> <p>Ask questions individually.</p>
Recapitulation	<p>Teacher will recapitulate the chapter by asking some questions and summarise the concept by giving some examples, where the students will show their keen interest.</p>
Teacher self - Assessment	<p>Ensure active participation of the students during the teaching learning process :</p> <p>All the concepts of this chapter will be clear to the students.</p> <p>The strength of the lesson was latest technology used.</p>

Lesson Title	Chapter - 4 Consumer Equilibrium - Indifference curve Analysis
Technology used	Screen share, audio - visual aids, google forms and zoom will be used as a software tools for better understanding of the chapter. Understanding of the chapter. Smart Board, Text book and Black board will be used as a hardware tools.
Previous knowledge Test	1. What is meant by consumer's equilibrium? 2. What is the difference between cardinal and ordinal concepts of equilibrium. 3. What do you mean by monotonic preference? 4. What is Budget line.
Lesson Goals	To provide knowledge about the consumer's equilibrium using IC Analysis. To provide knowledge about consumer's Budget line. To know different preferences of consumer and conditions of consumer's equilibrium.
Curriculum Addressed	IC Analysis as difference from utility Analysis Assumptions of IC Analysis of consumer's equilibrium. Indifference set and indifference curve properties of indifference curve Consumer Budget. Budget set Budget Line Consumer's Equilibrium.
Other materials / Resources	Assignments and NCERT reference books will be prescribed. Smart class videos will be shown Analytical and case based questions will be given Library resources. Video lessons on Diksha APP Youtube video clips will also help in further recapitulation.
Student Engagement Activities	Students will make curves to know about the concept of MRS. Students will draw curves of Budget line.
Art integration towards Experiential Learning and Subject enrichment	Project work will be given to the students on the topic consumer equilibrium through IC Analysis, where the students collect the information from different resources, draw curves and explore their ideas. The pictorial presentation of MRS and IC curves that will be used in this chapter for effective teaching. Competency This visual art programme will help in encouraging the students, improve their concentration skills and social skills. It also enhances creative, understanding technical and deep thinking skills among the students.
Teaching strategies	Interaction and explanation method will be used. Observe and listen to the students as they interact. Hypothetical situation based questions will be given. Numerical questions will be given.
Evaluation	Evaluation will be done through art integrated Activities, subjective Assignments and Numericals. Objective type questions will be conducted through Google form to check the

	knowledge about the topic. Ask questions individually.
Recapitulation	Teacher will recapitulate the chapter by asking some questions and summarise the concept by giving some examples, where the students will show their keen interest.
Teacher self - Assessment	The lesson plan includes active participation of students during the teaching learning process. All the concepts of this topic will be clear to the students.

Lesson Title	Chapter - 5 Theory of Demand
Technology used	Screen share, audio - visual aids, google forms and zoom will be used as a software tools for better understanding of the chapter. Understanding of the chapter. Smart Board, Text book and Black board will be used as a hardware tools.
Previous knowledge Test	1. What do you mean by demand? 2. What are the components of demand. 3. What is meant by quantity demanded in economics? 4. What are the determinants of demand?
Lesson Goals	To provide knowledge about the demand and its factors affecting it both at the market and personal level. To make them aware about the purchasing power of a consumer with regard of value of rupee.
Curriculum Addressed	Concept of demand Demand function and Determinants of demand. Demand schedule individual demand schedule market demand schedule. Demand curve and its slope. Law of Demand Movements and shifts in Demand curve case studies Types of goods. Normal goods Inferior goods Giffen goods Substitute goods Complementary goods
Other materials / Resources	Assignments and NCERT reference books will be prescribed. Smart class videos will be shown Analytical and case based questions will be given Library resources. Video lessons on Diksha APP Youtube video clips will also help in further recapitulation.
Student Engagement Activities	Students will draw demand curves for better understanding. Students will draw various type of goods to differentiate the goods.
Art integration towards Experiential Learning and Subject enrichment	Project work will be given to the students on the topic theory of Demand, where they have to explore their ideas by collecting information from different, sources draw curves etc. Pictorial presentation of different types of goods and curves of demand are an important visual aid that will be used in this chapter for effective teaching. Competency : This art programme will help in encouraging the students, improve their concentration, creative and social skills it also enhances deep thinking, technical and reason based understanding and listening skill among the students.
Teaching strategies	Interaction and explanation method will be used. Observe and listen to the students as they interact. Hypothetical situation based questions will be given. Numerical questions will be given.

Evaluation	<p>Evaluation will be done through Assignments, Art integrated activities , curves and Flow charts. Multiple choice questions will be conducted through google form to check the knowledge of the topic.</p> <p>Group discussion will be conducted.</p> <p>Ask questions individually.</p>
Recapitulation	<p>Teacher will recapitulate summarise and restate the main points of the chapter. The understanding of the subject matter can be tested by putting some questions from the chapter and classify their doubts.</p>
Teacher self - Assessment	<p>The lesson plan includes active participation of students during the teaching learning process.</p> <p>All the concepts of this topic will be clear to the students.</p>

Lesson Title	Chapter - 7 Concept of Economics and significances of statistics in economics
Technology used	Slide share, google forms, audio - visual aid, zoom will be used as a software technology for better understanding Black board , smart board, Text book will be used as a hardware tools.
Previous knowledge Test	1. What is Economics? 2. Who is a consumer? What is consumption? 3. Who is a producer? What is production? 4. What are the difference between economic and Non economic activity.
Lesson Goals	To provide knowledge about the subject matter of statistics and usefulness in understanding and analysing the issues and problems arising out of economic activities of man. Understanding of some basic economic concepts and development of economic reasoning which the learners can apply in their day to day life as citizens, workers and consumers.
Curriculum Addressed	Introduction Components of Economics most acceptable definitions of Economics What are economic activities or subject matter of Economics Types of statistics - Plural sense - singular sense. Importance and limitation of statistics scope of statistics.  
Other materials / Resources	Assignments and NCERT reference books will be prescribed. Smart class videos will be shown Analytical and case based questions will be given Library resources. Video lessons on Diksha APP Youtube video clips will also help in further recapitulation.
Student Engagement Activities	Students will draw or paste pictures to differentiate between consumer and producer. Students will make pictorial presentation to differentiate economic and non economic activities. Frame flow charts to define different acceptable Definations of economics.
Art integration towards Experiential Learning and Subject enrichment	Pictorial presentation to differntiate between consumer and producer, pictorial presentation to differentiate between economic and non economic activities. Flow chars to define different acceptatble definitions of economics will be used in this chapter for effective teaching. Students will used coloured papers, sketches, pens, colours etc to make these activities more attractive. Competency : This visual art programme will help in encouraging the students, improve their concentration skills and social skills, it also enhances creative, understaning, deep thinking and technical skills among the students.

Teaching strategies	<p>Interaction and explanation method will be used.</p> <p>Demonstration techniques will be used.</p> <p>Observe and listen to the students as they interact.</p> <p>Situation based questions will be given for the better understanding of the concept.</p> <p>Problem solving techniques will be used.</p>
Evaluation	<p>Evaluation will be done through Art integrated activities and Numerical Assignments.</p> <p>Multiple choice questions will be conducted through google form to check the knowledge of the topic.</p> <p>Ask questions individually.</p> <p>Group discussion will be conducted.</p>
Recapitulation	<p>Teacher will recapitulate the chapter by asking some questions and summarise the concept by giving some examples and solve their queries, Where the students will show their keen interest.</p>
Teacher self - Assessment	<p>Ensure active participation of the students during the teaching learning process.</p> <p>All the concepts of this chapter will be clear to the students.</p> <p>The strength of the lesson was latest technology used.</p>

Lesson Title	Chapter - 6 Price Elasticity of Demand
Technology used	Screen share, audio - visual aids, google forms and zoom will be used as a software tools for better understanding of the chapter. Understanding of the chapter. Smart Board, Text book and Black board will be used as a hardware tools.
Previous knowledge Test	1. What do you mean by elasticity of demand? 2. What is elastic demand. 3. What is the demand for a good said to be perfectly elastic? 4. Explain the factors, on which price elasticity of demand depends?
Lesson Goals	To provide knowledge about elasticity of demand its measurements and its factors affecting it. To provide knowledge about the degrees of price elasticity of demand.
Curriculum Addressed	Concept of elasticity demand meaning of price elasticity demand. measurement of price elasticity of demand. Factors affecting price elasticity of demand. Numericals.
Other materials / Resources	Assignments and NCERT reference books will be prescribed. Smart class videos will be shown Analytical and case based questions will be given Library resources. Video lessons on Diksha APP Youtube video clips will also help in further recapitulation.
Student Engagement Activities	Students will draw degrees of Elasticity of demand for more clarity and better understanding of the chapter.. Students of the chapter Numerical Assignments will be given to the students.
Teaching strategies	Interaction and explanation method will be used. Demonstration techniques will be used. Observe and listen to the students as they interact. Hypothetical situation based questions will be given. Problem solving techniques will be used.
Evaluation	Evaluation will be done through Art integrated activities and Numerical Assignments. Multiple choice questions will be conducted through google form to check the knowledge of the topic. Ask questions individually. Group discussion will be conducted.
Recapitulation	Teacher will recapitulate summarise and restate the main points of the chapter. The understanding of the subject matter can be tested by putting some questions from the chapter and classify their doubts, where the students will show their keen interest.
Teacher self -	Ensure active participation of the students during the teaching learning process. All the concepts of this chapter will be clear to the students.



Assessment	The strength of the lesson was latest technology used.
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Lesson Title	Collection of Data
Technology used	Screen share, audio-visual tools, Google form, PPT zoom meet will be used as a software tools for better understanding. Textbook, pictures, Flowcharts, Smart Board, Black Board will be used as a hardware tools.
Previous knowledge Test	1. Define statistics? 2. What are the main sources of data? 3. Define Primary and secondary source of Data? 4. What is questionnaire.
Lesson Goals	To provide knowledge about the various sources of data and various methods of collecting data
Curriculum Addressed	Introduction - meaning of statistics in singular and Plural sense Sources of data - Primary and secondary models of data collection Information through questionnaire and schedule. modes of data collection - Published source and unpublished source of data. Sources of secondary data. Census of India : NSSO Report
Other materials / Resources	Assignments and NCERT reference books will be prescribed. Smart class videos will be shown Analytical and case based questions will be given Library resources. Video lessons on Diksha APP Audio lessons on Siksha Vani Youtube video clips will also help in further recapitulation.
Student Engagement Activities	Students will make flow charts by using colour, sketches, pens, coloured papers etc to explore their ideas on data collection.
Art integration towards Experiential Learning and Subject enrichment	Pictorial presentation and flow charts on Data collection are an important visual Aid that will be used in this chapter for effective teaching. Competency : This art programme will help in encouraging the students and improve their concentration skills and social skills it also enhances creative, understanding, deep-thinking and listening skills among the students.
Teaching strategies	Interaction and explanation method will be used. Demonstration techniques will be used. Questionnaire based assignments will be given.
Evaluation	Evaluation will be done through Art integrated activities, Subjective Assignments and Flow charts. Multiple choice questions will be conducted through google form to check the knowledge of the topic. Ask questions individually. Group discussion will be conducted.
Recapitulation	Teacher will recapitulate the chapter by giving some task and by asking some

	questions. Where the students will show their keen interest.
Teacher self - Assessment	Ensure active participation of the students during the teaching learning process. All the concepts of this chapter will be clear to the students. The strength of the lesson was latest technology used.

Lesson Title	Census and Sample methods
Technology used	Screen share, audio-visual tools, Google form, PPT zoom meet will be used as a software tools for better understanding. Textbook, pictures, Flowcharts, Smart Board, Black Board will be used as a hardware tools.
Previous knowledge Test	1. What is meant by universe? 2. What is meant by census method? 3. What is meant by sample method ? 4. What is the meaning of sampling surveys?
Lesson Goals	To provide knowledge about the various approaches for collecting the data. To know the suitability of the method for collecting the data.
Curriculum Addressed	Concept of census and sample. Merits and demerits of census method. merits and demerits of sample method. Essentials of census and sample Sampling Errors. Methods of Sampling
Other materials / Resources	Assignments and NCERT reference books will be used. Smart class videos will be shown Analytical and case based questions will be given. Video lessons on Diksha APP Audio lessons on Siksha Vani Situation based questions will be given Youtube video clips will also help in further recapitulation.
Student Engagement Activities	Students will make flow charts . Students will make project work on the topic census and sample techniques.
Art integration towards Experiential Learning and Subject enrichment	Project work will be given to the students on the topic "Census and Sample Techniques, where they explore their ideas by collecting informations from different sources. Flow charts and PPTs are the important visual aid that will be used in this chapter for effective teaching. Competency : This art programme will help in encouraging the students, improve their concentration skills and social skills, it also enhances communication, creative, understanding and listening skills among the students
Teaching strategies	Interaction and explanation method will be used. Demonstration techniques will be used. Observe and listen to the students as they interact. Situation based questions will be given. PPTs of the chapter will be used.
Evaluation	Evaluation will be done through Art integrated technique, Subjective Assignments and collected Flow charts.

	<p>Objective type questions will be conducted through google form to check the knowledge of the concept.</p> <p>Ask questions individually.</p>
Recapitulation	<p>The Teacher will summarise and restate the main points of the chapter. The understanding of the subject matter can be tested by putting some questions from the chapter and clarify their doubts which brings attention in the class and provided motivation.</p>
Teacher self - Assessment	<p>Ensure the active participation of the students.</p> <p>All the concepts of this chapter will be clear to the students.</p> <p>The strength of the lesson was latest technology used.</p>

Lesson Title	Organisation of Data
Technology used	Screen share, audio-visual tools, Google form, Zoom meet will be used as a software technology for the better understanding of the concept. Textbook, pictures, Flowcharts, Smart Board, Black Board will be used as a hardware tools.
Previous knowledge Test	1. What do you mean by statistical series? 2. Define a variable? 3. What is meant by Frequency? 4. What are the types of Frequency distribution?
Lesson Goals	To provide knowledge about the various techniques to organize the raw data in different ways. To provide knowledge about the subject matter of statistics and its usefulness in organisation of data.
Curriculum Addressed	Define raw data on different basis a) Geographical (b) Chronological (c) Qualitative and (d) Quantitative Conversion of raw data into statistical data types of statistical series. individual, Frequency and Discrete series.
Other materials / Resources	Various Assignments and NCERT books will be used. Smart class videos will be shown Analytical and case based questions will be given Library resources Video lessons on Diksha APP Audio lessons on Siksha Vani Youtube video clips will also help in further recapitulation.
Student Engagement Activities	Students will draw flow charts . Students will make PPTs.
Art integration towards Experiential Learning and Subject enrichment	Flow chart and ppts on the topic classification of data are the important visual aid that will be used in this chapter for effective teaching. Competency : This art programme will help in encouraging the students, improve their concentration skills and social skills. It also enhances the reason based knowledge and deep thinking skills among the students.
Teaching strategies	Interaction and explanation method will be used. Demonstration techniques will be used. Observe and listen to the students as they interact. Numerical Assignment will be used.
Recapitulation	The Teacher will summarise and restate the main points of the chapter. The understanding of the subject matter can be tested by putting some questions from the chapter and clarify their doubts which brings attention in the class and provides motivation.
Teacher self - Assessment	Ensure the active participation of the students. All the concepts of this chapter will be clear to the students.

	The strength of the lesson was latest technology used.
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Lesson Title	Presentation of Data - Textual and Tabular
Technology used	Screen share, audio-visual tools, Google form, Zoom meet will be used as a software technology for the better understanding of the concept. Textbook, pictures, Flowcharts, Smart Board, Black Board will be used as a hardware tools.
Previous knowledge Test	1. What do you mean by presentation of data? 2. What is mean by Tabulation? 3. What is the principal component of Table? 4. What is statistical table?
Lesson Goals	To provide knowledge about the various techniques to organize the raw data in different ways. To provide knowledge about the subject matter of statistics and its usefulness in organisation of data.
Curriculum Addressed	Introduction , meaning of presentation of data structure of a good table General rules in framing a good table limitation of table. Types of Table - On the basis of purpose, on the basis of originality, on the basis of construction.
Other materials / Resources	Various Assignments and NCERT books will be used. Smart class videos will be shown Analytical and case based questions will be given Library resources Video lessons on Diksha APP Audio lessons on Siksha Vani Youtube video clips will also help in further recapitulation.
Student Engagement Activities	Students will make flow charts. Students will present the data in Tabular form. Students will make ppts or charts on Tabulation.
Art integration towards Experiential Learning and Subject enrichment	Tabular presentation of Data and Flowcharts on different kinds of Table are important visual aid that will be used in this chapter for effective teaching. Competency : This art programme will help in encouraging the students, improve their concentration and social skills. It also enhances the reason based knowledge and technical skills among the students.
Teaching strategies	Interaction and explanation method will be used. Demonstration techniques will be used. Observe and listen to the students as they interact. Numerical Assignment will be used.
Recapitulation	The Teacher will summarise and restate the main points of the chapter. The understanding of the subject matter can be tested by putting some questions from the chapter and clarify their doubts which brings attention in the class and provides motivation.
Teacher self -	Ensure the active participation of the students. All the concepts of this chapter will be clear to the students.



Assessment	The strength of the lesson was latest technology used.
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Lesson Title	Measure of Central Tendency - Arithmetic mean
Technology used	Screen share, audio-visual tools, Google form, Zoom meet will be used as a software tools for the better understanding of the chapter. Textbook, smart board, Black board will be used as a hardware tools.
Previous knowledge Test	1. What do you mean by Statistics? 2. What is the meaning of central tendency of the series. 3. What do you mean by average value.
Lesson Goals	To provide knowledge about the single measurement of the data as well as various series. This chapter refers to a central value or a representative value of a statistical series. Equipment with basic tools of economics and statistics to analyse economic issue.
Curriculum Addressed	Introduction to central tendency meaning objectives and functions of averages Essentials of average. Type of Arithmetic mean - simple, weighted Methods to calculate arithmetic mean Direct method                      Shortcut method                      Step deviation method Correct and combined mean Properties of Arithmetic mean Weighted mean
Other materials / Resources	Various Assignments and NCERT books will be used. Smart class videos will be shown Analytical and case based questions will be given Library resources Video lessons on Diksha APP Audio lessons on Siksha Vani Youtube video clips will also help in further recapitulation.
Student Engagement Activities	Students will make graphs to find out the mean. Students will make flow charts.
Art integration towards Experiential Learning and Subject enrichment	Flow charts , graphs and Tabular presentation of arithmetic mean are an important visual aid that will be used in this chapter for effective teaching. <b>Competency</b> : This are programme will help in encouraging students, improve their concentration skills and social skills, it also enhances technical creative and problem solving skills among the students. Mean in Special cases Commulative                      Mid Values                      Inclusive                      Open                      Unequal Frequency Distribution                      are given                      class intervals                      end series                      class intervals
Teaching strategies	Interaction and explanation method will be used. Demonstration techniques will be used. Observe and listen to the students as they interact. Numerical Assignment will be used.

Evaluation	<p>Evaluation will be done through Art integrated Activities, subjective Assignments and Numerical. Objective type questions will be conducted through Google form to check the knowledge about the topic.</p> <p>Numerical Assignment and graphic questions will be given.</p>
Recapitulation	<p>Teacher will recapitulate the chapter by asking some questions and summarise the concept by giving some examples and solve their queries, where the students will show their keen interest.</p>
Teacher self - Assessment	<p>Ensure active participation of the students during the teaching learning process.</p> <p>All the concepts of this chapter will be clear to the students.</p> <p>The strength of the lesson was latest technology used.</p>

Lesson Title	Measure of Central Tendency - Median and mode
Technology used	Screen share, Google slides, audio - visual tools, diagrams zoom meet will be used as a software tools for the better understanding of the chapter Text book, Black board, smart board will be used as a hardware tools.
Previous knowledge Test	<ol style="list-style-type: none"> <li>1. Define Median?</li> <li>2. Define Partition value?</li> <li>3. Define Mode</li> <li>4. Define an average and describe its chief properties.</li> </ol>
Lesson Goals	<p>To provide knowledge about the positional averages because these value is worked out on the basis of their position in the statistical series.</p> <p>Equipment with basic tools of economics and statistics to analyse economic issue.</p>
Curriculum Addressed	<p>Introduction</p> <p>positional averages - Median and mode</p> <p>computation of median</p> <p>individual series                      Discrete series                      Frequency distribution series</p> <p>Properties of median</p> <p>mean vs median</p> <p>Merits and demerits of median</p> <p>Computation of mode</p> <p>Relationship between mean, median and mode grouping method of mode</p> <p>graphic location of median and mode.</p>
Other materials / Resources	<p>Various Assignments and NCERT books will be used.</p> <p>Smart class videos will be shown</p> <p>Analytical and case based questions will be given Library resources</p> <p>Video lessons on Diksha APP</p> <p>Youtube video clips will also help in further recapitulation.</p>
Student Engagement Activities	<p>Students will draw O gives to represent median on graphs.</p> <p>Students will draw Histogram to represent mode on graph.</p> <p>Students will solve Numerical Assignment.</p>
Art integration towards Experiential Learning and Subject enrichment	<p>Graphic presentation of median and mode and various flow charts are an important visual aid that will be used in this chapter for effective teaching.</p> <p><b>Competency</b> : This art programme will help in encouraging the students, improve their concentration, social and creative skills. It also enhances understanding, technical and problem solving skills among the students.</p>
Teaching strategies	<p>Interaction and explanation method will be used.</p> <p>Demonstration techniques will be used.</p> <p>Observe and listen to the students as they interact.</p> <p>Numerical Assignment will be used.</p>
Evaluation	<p>Evaluation will be done through Numerical Assignments, Art integrated activities and flow charts.</p> <p>Objective type questions will be conducted through google form to check the</p>

	<p>knowledge of the concept. Numerical questions and graphic questions will be given. Ask questions individually.</p>
Recapitulation	<p>The teacher will summarise and restate the main points of the chapter. The understanding of the subject matter can be tested by putting some questions from the chapter and clarify their doubts which brings attention in the class and provides motivation.</p>
Teacher self - Assessment	<p>Ensure active participation of the students during the teaching learning process. All the concepts of this chapter will be clear to the students. The strength of the lesson was latest technology used.</p>