Curriculum for the Academic Year (2023-2024)

Subject: Early Childhood Care and Education

Class: XI

Learning Objectives: -

1) **Learn about the importance of overall development of the child.**
2) **Respect children and their rights in diverse capabilities, social and cultural contexts. Apply safe working practices.**
3) **Explain nutritional and health needs of child, plan nutritional diets and provide first aid.**
4) **Describe the needs, growth & development of children between birth to six years in terms of physical, motor, language, social, emotional and cognitive development.**

CONTENT	METHODOLOGY	LEARNING OUTCOME
APRIL:- 18 Periods Introduction to Early Childhood care and Education Communication skills Practical : Making a report on the need of ECCE.	Lecture Method and Writing the importance of holistic development. Brainstorming session. PowerPoint Hands on learning ACTIVITY	Students will learn about the critical periods & Rights of child. Students will learn about different methods of communication, communication styles.

MAY:- 16 Periods; Self-Management Skills Practical : Complete the given tasks in the assigned time.	Lecture Method. Writing of the complete description and their importance. Experiential Learning	Students will demonstrate impressive approach and grooming, Team Work, Time Management strategies & techniques.

JULY:- 22 Periods; Foundations Of Child Development Practical Make a project on any 1 area od Development	Lecture Method. Writing of different developmental stages and their milestones.	Introduce stages, milestones & basic vocabulary
AUGUST:- 23 Periods; ICT Skills Nutrition and Health Needs of The Child Project – Design a balanced diet platter for the given age group	Lecture Method. PowerPoint Experiential Learning	Learn about optimal health ,common childhood illness, Prevention & Management , balanced meal planning , importance of nutrition ,First Aid ,Hygiene
SEPTEMBER: -23 Periods; Entrepreneurial Skills Various Pedagogical Approaches and Holistic Developmental activities for ECCE Practical – Make a project on any one of the pedagogical approach	Lecture Method. PowerPoint Experiential Learning	Learn about play, care & practice from birth to 6 years.

CONTENT	METHODOLOGY	LEARNING OUTCOME
October:- 20 Periods; Green Skills Practical – Make a poster on E- waste management.	Lecture and Demo Method	Students will know about E -waste management, renewable energy, water management Role of government & private sector.
November:- 19 Periods; Inside-outside care and Learning environment Practical- Design poster for the importance of play in ECCE	Lecture and Demo Method	Environment for health and safety, environment for stimulation and learning
December:- 22 Periods; Engaging with parents and the community Practical – Designing forms and poster for parents	Lecture and Demo Method Hands on learning	Learn different ways to reach parents and how to send essential messages for parents and community

January:- 18 Periods; Revision and preparation of Pre-Boards		
February:- 15 Periods; Recapitulation and preparation for final assessment		

Computer Science
Class XI : 2023-24
Code No. – 083

Learning Outcomes :

At the end of this course, students will be able to:

a. Develop basic computational thinking
b. Explain and use data types
c. Appreciate the notion of algorithm
d. Develop a basic understanding of computer systems - architecture, operating system andcloud computing
e. Explain cyber ethics, cyber safety and cybercrime
f. Understand the value of technology in societies along with consideration of gender anddisability issues

MONTH & NO. OF WORKING DAYS : APRIL - 18 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
Unit I: Computer Systems and Organisation ● Basic Computer Organisation: Introduction to computer system, hardware, software, input device, output device, CPU, memory (primary, cache and secondary), units of memory (Bit, Byte, KB, MB, GB, TB, PB) ● Types of software: system software (operating systems, system utilities, device drivers), programming tools and language translators (assembler, compiler & interpreter), application software ● Operating system (OS): functions of operating system, OS user interface	▪ Lecture method ▪ Diagrammatic representation ▪ Group discussion ▪ Demonstration of activities	The students will be able to… -The concept of Basic Computer Organization -Types of software -Operating system and its functions

MONTH & NO. OF WORKING DAYS : MAY - 16 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
● Boolean logic: NOT, AND, OR, NAND, NOR, XOR, truth table, De Morgan's laws and logic circuits ● Number system: Binary, Octal, Decimal and Hexadecimal number system; conversion between number systems. ● Encoding schemes: ASCII, ISCII and UNICODE (UTF8, UTF32) ● Emerging trends: Cloud computing, cloud services (SaaS, IaaS, PaaS), blockchains, Artificial Intelligence (AI), Machine Learning (ML), Internet of Things (IoT)	● Lecture method ● Practical method ● Pictorial demonstration ● Discussion Method	The students will be able to… ● Know Boolean logic, Number system, Encoding Scheme etc.

MONTH & NO. OF WORKING DAYS : JULY -22 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
Unit II: Computational Thinking and Programming – 1 ● Introduction to problem solving: Steps for problem solving (analysing the problem, developing an algorithm, coding, testing and debugging). representation of algorithms using flow chart and pseudo code, decomposition ● Familiarization with the basics of Python programming: Introduction to Python, features of Python, executing a simple "hello world" program, execution modes: interactive mode and script mode, Python	● Lecture method ● Practical method ● Pictorial demonstration ● Discussion Method	The students will be able to… ● Know basic features of Python programming. ● Develop small python programs like 'Hello Work'

character set, Python tokens (keyword, identifier, literal, operator, punctuator), variables, concept of l-value and r-value, use of comments		

MONTH & NO. OF WORKING DAYS : AUGUST -23 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
● Knowledge of data types: number (integer, floating point, complex), boolean, sequence (string, list, tuple), none, mapping (dictionary), mutable and immutable data types ● Operators: arithmetic operators, relational operators, logical operators, assignment operator, augmented assignment operators, identity operators (is, is not), membership operators (in, not in) ● Expressions, statement, type conversion & input/output: precedence of operators, expression, evaluation of expression, python statement, type conversion (explicit & implicit conversion), accepting data as input from the console and displaying output ● Errors: syntax errors, logical errors, runtime errors ● Flow of control: introduction, use of indentation, sequential flow, conditional and iterative flow control	● Lecture method ● Practical method ● Pictorial demonstration ● Discussion Method	The students will be able to… ● Learn data types in python programming language ● Various operators used in python programming language ● Learn expressions, statements in python. ● Know errors in python programming ● Know flow of control in python programming

MONTH & NO. OF WORKING DAYS : SEPTEMBER -23 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
● **Conditional statements**: if, if-else, if-elif-else, flowcharts, simple programs: e.g.: absolute value, sort 3 numbers and divisibility of a number ● Iterative statements: for loop, range function, while loop, flowcharts, break and continue statements, nested loops, suggested programs: generating pattern, summation of series, finding the factorial of a positive number etc ● **Strings:** introduction, indexing, string operations (concatenation, repetition, membership & slicing), traversing a string using loops, built-in functions: len(), capitalize(), title(), lower(), upper(), count(), find(), index(), endswith(), startswith(), isalnum(), isalpha(), isdigit(), islower(), isupper(), isspace(), lstrip(), rstrip(), strip(), replace(), join(), partition(), split()	● Lecture method ● Practical method ● Pictorial demonstration ● Discussion Method	The students will be able to… ● know conditional statement, iterative statement in python programming ● Know use of string with its various functions

MONTH & NO. OF WORKING DAYS : OCTOBER - 20 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
● **Lists:** introduction, indexing, list operations (concatenation, repetition, membership & slicing), traversing a list using loops, built-in functions: len(), list(), append(), extend(), insert(), count(), index(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum(); nested lists, suggested programs: finding the	● Lecture method ● Practical method ● Pictorial demonstration ● Discussion Method	The students will be able to… ● Know about list with its various useful functions ● Know about tuples with its various useful functions

maximum, minimum, mean of numeric values stored in a list; linear search on list of numbers and counting the frequency of elements in a list ● **Tuples:** introduction, indexing, tuple operations (concatenation, repetition, membership & slicing), built-in functions: len(), tuple(), count(), index(), sorted(), min(), max(), sum(); tuple assignment, nested tuple, suggested programs: finding the minimum, maximum, mean of values stored in a tuple; linear search on a tuple of numbers, counting the frequency of elements in a tuple		

MONTH & NO. OF WORKING DAYS : NOVEMBER - 19 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
● **Dictionary:** introduction, accessing items in a dictionary using keys, mutability of dictionary (adding a new item, modifying an existing item), traversing a dictionary, built-in functions: len(), dict(), keys(), values(), items(), get(), update(), del(), clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), count(), sorted(), copy(); suggested programs : count the number of times a character appears in a given string using a dictionary, create a dictionary with names of employees, their salary and access them ● Sorting techniques: Bubble and Insertion sort ● Introduction to Python	● Lecture method ● Practical method ● Pictorial demonstration ● Discussion Method	The students will be able to… ● to do programs by using dictionary with its various useful functions. ● know sorting techniques ● Know python modules and their uses

modules: Importing module using 'import ' and using from statement, Importing math module (pi, e, sqrt, ceil, floor, pow, fabs, sin, cos, tan); random module (random, randint, randrange), statistics module (mean, median,mode)		

MONTH & NO. OF WORKING DAYS : DECEMBER - 22 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
Unit III: Society, Law and Ethics ● Digital Footprints ● Digital society and Netizen: net etiquettes, communication etiquettes, social media etiquettes ● Data protection: Intellectual Property Right (copyright, patent, trademark), violation of IPR (plagiarism, copyright infringement, trademark infringement), open source softwares and licensing (Creative Commons, GPL and Apache) ● Cyber-crime: definition, hacking, eavesdropping, phishing and fraud emails, ransomware, preventing cyber crime ● Cyber safety: safely browsing the web, identity protection, confidentiality, cyber trolls and bullying. ● Safely accessing web sites: malware, viruses, trojans, adware ● E-waste management: proper disposal of used electronic gadgets	● Lecture method ● Practical method ● Pictorial demonstration ● Discussion Method	The students will be able to… ● Know the impact of internet on society, ● Know law and ethics related to cyber world. ● Aware of Cyber Crime, Cyber Safety and Safely accessing the web sites. ● Know about information technology and Information Technology Act (IT ACT)

● Indian Information Technology Act (IT Act) ● Technology & Society: Gender and disability issues while teaching and using computers		

MONTH & NO. OF WORKING DAYS : JANUARY -18 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
● Preparing of Practical file (containing at least best 20 python programs and at least 10 SQL queries ● Preparing of Project report	● Lecture method ● Practical method ● Pictorial demonstration ● Discussion Method	The students will be able to… ● Prepare practical file ● Prepare Project report

Informatics Practices

CLASS XI _ 2023-24

Code No. 065

Learning Outcomes :

At the end of this course, students will be able to:

- Identify the components of the Computer System.
- Create Python programs using different data types, lists and dictionaries.
- Explain what is 'data' and analyse using NumPy.
- Explain database concepts and Relational Database Management Systems.
- Retrieve and manipulate data in RDBMS using Structured Query Language
- Identify the Emerging trends in the fields of Information Technology.

MONTH & NO. OF WORKING DAYS : APRIL - 18 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
Unit 1: Introduction to Computer System and computing: Evolution of computing devices, components of a computer system and their interconnections, Input/Output devices. Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery and related security concerns. 2 Software: purpose and types – system and application software, generic and specific purpose software.	● Lecture method ● Practical method ● Pictorial demonstration ● Discussion Method	The students will be able to… ● Know about components of a computer system, input output devices, types of memories ● Know about type of software

MONTH & NO. OF WORKING DAYS : MAY -16 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
Unit 2: Introduction to Python Basics of Python programming, Python interpreter - interactive and script mode, the structure of a program, indentation, identifiers, keywords, constants, variables, types of operators, precedence of	● Lecture method ● Practical method ● Pictorial demonstration ● Discussion Method	The students will be able to… ● Learn Python Basics

operators, data types, mutable and immutable data types, statements, expressions, evaluation of expressions, comments, input and output statements, data type conversion, debugging, control statements: if-else, for loop		

MONTH & NO. OF WORKING DAYS : JULY -22 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
Lists: list operations - creating, initializing, traversing and manipulating lists, list methods and built-in functions.: len(), list(), append(), extend(), insert(), count(), find(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum() Dictionary: concept of key-value pair, creating, initializing, traversing, updating and deleting elements, dictionary methods and built-in functions: len(), dict(), keys(), values(), items(), get(), update(), clear(), del()	● Lecture method ● Practical method ● Pictorial demonstration ● Discussion Method	The students will be able to… ● Know list operations with its various useful functions

MONTH & NO. OF WORKING DAYS : AUGUST -23 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
Unit 3: Data Handling using NumPy Data and its purpose, importance of data, structured and unstructured data, data processing cycle, basic statistical methods for understanding data - mean, median, mode, standard deviation and variance. Introduction to NumPy library, NumPy arrays and their advantage, NumPy attributes, creation of NumPy arrays; from lists using np.array(), np.zeros(),	● Lecture method ● Practical method ● Pictorial demonstration ● Discussion Method	The students will be able to… ● Learn data handling using NumPy ● Learn Various mathematical and statistical operations with its various useful methods

np.ones(),np.arange() , indexing, slicing, and iteration; concatenating and splitting array; Arithmetic operations on one dimensional and two dimensional arrays. Calculating max, min, count, sum, mean, median, mode, standard deviation, variance on NumPy arrays.		

MONTH & NO. OF WORKING DAYS : SEPTEMBER - 23 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
Unit 4: Database concepts and the Structured Query Language **Database Concepts:** Introduction to database concepts and its need, Database Management System. Relational data model: concept of attribute, domain, tuple, relation, candidate key, primary key, alternate key, foreign key. Structured Query Language: Data Definition Language, Data Query Language and Data Manipulation Language.	● Lecture method ● Practical method ● Pictorial demonstration ● Discussion Method	The students will be able to… ● know database concept (i.e. Database Management System) ● Know various keys constraints used in a database with their purposes.

MONTH & NO. OF WORKING DAYS : OCTOBER -20 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
Introduction to MySQL: Creating a database, using database, showing tables using MySQL, Data Types : char, varchar, int, float, date Data Definition Commands: CREATE, DROP, ALTER (Add and Remove primary key, attribute). Data Query Commands: SELECT-FROM- WHERE, LIKE, BETWEEN, IN, ORDER BY, using	● Lecture method ● Practical method ● Pictorial demonstration ● Discussion Method	The students will be able to… ● Create a database with various DDL queries ● Manage a database with various DML queries

arithmetic, logical, relational operators and NULL values in queries, Distinct clause Data Manipulation Commands: INSERT, UPDATE, DELETE.		

MONTH & NO. OF WORKING DAYS : NOVEMBER - 19 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
Unit 5: Introduction to the Emerging Trends Artificial Intelligence, Machine Learning, Natural Language Processing, Immersive experience (AR, VR), Robotics, Big data and its characteristics, Internet of Things (IoT), Sensors, Smart cities, Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Block chain technology.	● Lecture method ● Practical method ● Pictorial demonstration ● Discussion Method	The students will be able to… ● aware about various online activities, their management and their impact on our society

MONTH & NO. OF WORKING DAYS : DECEMBER -22 DAYS

CHAPTER	METHODOLOGY	LEARNING OUTCOME
● Preparing of Practical file (containing at least best 20 python programs and at least 10 SQL queries ● Preparing of Project report	● Lecture method ● Practical method ● Pictorial demonstration ● Discussion Method	The students will be able to… ● Prepare practical file ● Prepare Project report

CURRICULUM 2023-24
SUBJECT : MATHEMATICS
CLASS : XI

Objectives :

The aims of teaching and learning mathematics are to encourage and enable students to:

- Acquire knowledge and critical understanding, particularly by way of a motivation and visualization, of basic concepts, terms, principles, symbols and mastery of underlying processes and skills.
- To feel the flow of reasons while proving a result and solving a problem.
- To apply the knowledge and skills acquired to solve problems and where ever possible, by more than one method.
- To develop positive attitude to think, analyze and articulate logically.
- To develop interest in the subject by participating in related competitions.
- To acquaint students with different aspects of Mathematics in daily life.
- To develop an interest in students to study Mathematics as a discipline.
- To develop reverence and respect towards great Mathematicians for their contributions to the field of Mathematics.

Month: APRIL **No. of working days: 18**

Chapter	Methodology	Learning Outcomes
UNIT – 6 Chapter 14 Statistics	Chalk-blackboard method Link previous knowledge with new concepts Videos	Measures of Dispersion: Range. Moan deviation, variance and standard deviation of ungrouped/grouped data. Analysis of frequency distributions with equal means but different variances.

UNIT- 6 Chapter 15 Probability	Chalk-blackboard method Link previous knowledge with new concepts and Videos	Random experiments; outcomes, sample spaces (set representation). Events, occurrence o events, not, and and or events, exhaustive events, mutually exclusive events, Axiomatic (se theoretic) probability, connections with other theories of earlier classes. Probability of an event probability of 'not', 'and' and 'or' events,

Month: May **No. of working days: 16**

Chapte r	Methodology	Learning Outcomes
UNIT – 1 Chapter 1 Sets	Chalk-blackboard method Link previous knowledge with new concepts Videos	Sets and their representations, Empty set Finite and Infinite sets, Equal sets. Subsets, Subsets of a set of real numbers especially intervals (with notations) Power set Universal set. Venn diagrams Union and Intersection of sets Difference of sets. Complement of a set. Properties of complement.

Month: July **No. of working days: 22**

UNIT-1 Chapter 2 Relations and Functions	Chalk-blackboard method Link previous knowledge with new concepts Videos	Ordered pairs. Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the set of reals with itself (upto R x R x R). Definition of relation pictorial diagrams, domain, co-domain and range of a relation. Function as a special type of relation Pictoral representation of a function, domain, co-domain and range of a function. Real valued functions, domain and range of these functions, constant, identity, polynomial, rational modulus, signum exponential, logarithmic and greatest integer functions, with their graphs. Sum difference product and quotients of functions

UNIT-1 Chapter 3 Trigonometric Functions	Chalk-blackboard method Link previous knowledge with new concepts Videos	Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the identity sin2x cos2x = 1, for all x. Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs. Expressing sin (x ± y) and cos (x ± y) in terms of sinx, siny. cosx & cosy and their simple applications. Deducing identities like the following: tan(x ± y) = tan x ± tan y/(1 ∓ tanx.tany), cot (x + y) = cotxcoty ∓ 1/(coty ±cotx) $\sin a \pm \sin b = 2\sin\frac{1}{2}(a \pm b)\cos\frac{1}{2}(a \mp b)$ $\cos a + \cos b = 2\cos\frac{1}{2}(a + b)\cos\frac{1}{2}(a - b)$ $\cos a - \cos b = -2\sin\frac{1}{2}(a+b)\sin\frac{1}{2}(a-b)$ Identities related to sin2x. cos2x, tan2 x sin3x cos3x and tan3x General solution of trigonometric equations of the type siny sina, cosy cosa and tany= tana

Month: August No. of working days:23

Chapter	Methodology	
UNIT- 2 Chapter 5 Complex - Numbers and Quadratic equations	Chalk-blackboard method Link previous knowledge with new concepts Videos	Need for complex numbers, especially $\sqrt{-1}$, to be motivated by inability to solve some of the quardratic equations. Algebraic properties of complex numbers Argand plane.
UNIT – 2 Chapter 6 Linear Inequalities	Chalk-blackboard method Link previous knowledge with new concepts Videos	Linear inequalities: Algebraic solutions of linear inequalities in one variable and their representation on the number line.

Month: September No. of working days:23

Chapter	Methodology	Learning Outcomes
UNIT- 2 Chapter7 Permutaions and combinations	Chalk-blackboard method Link previous knowledge with new concepts Videos	Fundamental principle of counting. Factorial n. (n!) Permutations and combinations, derivation of Formulae for nPr, and nCr, and their connections, simple applications
UNIT – 2 Chapter 7 Binomial Theorem	Chalk-blackboard method Link previous knowledge with new concepts Videos	Historical perspective, statement and proof of the binomial theorem for positive integral indices Pascal's triangle and simple applications

Term-1 examinations will be conducted from the third week of September.

Month: OCTOBBER No. of working days: 20

Chapte r	Methodology	Learning Outcomes
UNIT- 2 Chapter 8 Sequence and Series	Chalk-blackboard method Link previous knowledge with new concepts Videos	Sequence and Series. Arithmetic Progression (AP) Arithmetic Mean (AM) Geometric Progression (GP), general term of a GP sum of n terms of a G.P. infinite G.P and its sum, geometric mean (GM), relation between A.M. and G.M.

Month: NOVEMBER No. of working days: 19

Chapter	Methodology	Learning Outcomes
UNIT – 3 Chapter 9 Straight Lines	Chalk-blackboard method Link previous knowledge with new concepts Videos	Brief recall of two dimensional geometry from earlier classes. Slope of a line and angle between two lines Various forms of equations of a line parallel to axis, point-slope form, slope-intercept form, two-point form, intercept form. Distance of a point from a line.
UNIT – 3 Chapter 10 Conic Sections	Chalk-blackboard method Link previous knowledge with new concepts Videos	Sections of a cone: circles, ellipse, parabola, hyperbola, a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section Standard equations and simple properties of parabola, ellipse and hyperbola Standard equation of a circle.

Month: D E C E M B E R No. of working days: 22

Chapter	Methodology	Learning Outcomes
UNIT – 3 Chapter 11 Introduction to three-dimensional geometry	Chalk-blackboard method Link previous knowledge with new concepts Videos	Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points and section formula
UNIT- 4 Chapter 12 Limits and Derivatives	Chalk-blackboard method Link previous knowledge with new concepts Videos	Derivative introduced as rate of change both as that of distance function and geometrically, intutive idea of imit. Limits of polynomials and rational functions trigonometric, exponential and logarithmic functions. Definition of derivative relate it to scope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.

***PRACTICE EXAM*: Month: January 2024 No. of working days:18**

REVISION AND PRACTICE TESTS TILL ANNUAL

DAV PUBLIC SCHOOL BRIJ VIHAR
Curriculum Economics 2023-24
Class-XI

Learning Objectives:

Understanding of the most basic economic concepts and development of economic reasoning which the learners can apply in the day to day life as citizens, workers and consumers.

Realization of learners' role in nation building and sensitivity to the economic issues that the nation is facing today.

Equipment with basic tools of economics and statistics to analyze economic issues This is pertinent for even those who may not pursue this course beyond senior secondary stage.

Development of understanding that there can be more than one view on any economic issue and necessary skills to argue logically and with reasoning.

MONTH: APRIL,23 **NO OF WORKING DAYS:18**

TOPIC	METHODOLOGY	LEARNING OUTCOMES
INTRODUCTION: STATISTICS- Meaning and scope of statistics.	Taking examples explain what The subject matter of economics is all about. To make students understand how economics is linked with the study of economic activities in consumption production and distribution. Discuss in class how knowledge of statistics can help in describing consumption production and distribution. Taking in examples and relating it to how some uses of statistics helps in the understanding of economic activities. Explaining the meaning and purpose of data collection,by	Enables the students to understand the relationship between economics and statistics. They will be able to establish the importance of statistics in economic activities. Students can relate the statistics with the process of consumption, production and distribution. They will be able to chalk out how

COLLECTION OF DATA	taking examples, Distinguishing between primary and secondary sources of data. To discuss the mode of collection of data and hence differentiate between sample and census surveys. Discussing the various techniques of sampling	statistics is related to economics , business planning ,economic planning etc. Students will be able to understand the purpose of collection of the data. They will be able to give examples to differentiate between primary and secondary data. Students will understand how to collect the data for statistical study. They will be able to know the techniques of sampling. Chalk out the important sources of secondary data.

MONTH: MAY,23 **NO OF WORKING DAYS:16**

TOPIC	METHODOLOGY	LEARNING OUTCOMES
CLASSIFICATION OF DATA	Explaining the difference between quantitative and qualitative classification. Preparing a frequency distribution table by showing on black board. Numerical examples will be taken to get students familiar with the method of tally making, discrete, continuous	Enable the students to differentiate between quantitative and qualitative classification. The students will be able to construct a frequency distribution table.

	series, cumulative series. Taking numerical examples, the difference between univariate and bivariate frequency distribution will be explained.	Enable to differentiate between discrete and continuous series. Enable They will also be able to construct the bivariate and univariate frequency distribution table
PRESENTATION OF DATA TABULATION, DIAGRAMMATIC GRAPHIC PRESENTATION	A flowchart of various types of presentations will be explained. The example of tables will be taken and the e.g., will be discussed in the class on the blackboard. The flowchart of different types of diagrams used in statistical analysis will be discussed Examples of each diagram presentation will be taken on the blackboard and the students will be asked to draw the diagram accordingly	Enable the students to chalk out various types of presentations They will be able to draw tables Differentiate between different types of diagrams. Enable them to construct graphs. .

One activity/field survey will be done by the students , on framing a Questionnaire and doing a survey on at least 20 Teachers to find out their preference of any consumer product and interpret the result .

MONTH: JULY,23 **NO OF WORKING DAYS:22**

TOPIC	METHODOLOGY	LEARNING OUTCOMES
MEASURE OF CENTRAL TENDENCY	Explaining the students need for one single number summarizing the whole set of data	Understand the meaning of averages. Students will be able

	Taking examples and explaining how to recognize and distinguish between different types of Averages. Explain to the students how meaningful conclusions can be drawn from a set of data. Various numerical examples will be taken to explain how to calculate Average in different types of series	to explain how a single number represents the whole set of data. Enable the students to find out averages numerically in different types of series. They will be able to differentiate between different types of averages. Enable the students to explain properties of AM With the help of examples.
MEDIAN AND MODE	Explaining the concept of partition values by taking examples. Taking a numerical example concept of Median will be explained. Methodology of calculating Median will be explained in different types of series. Definition of Mode will be taken up by taking examples of real-life situations. Taking numerical examples, the method of calculating Mode will be explained. Explain locating median and mode diagrammatically By drawing on black board.	Enable the students to understand the concept of partition values and its relevance in statistics. Enable the students to do numerical on Median and Mode. Locate median and mode diagrammatically.
MICROECONOMICS	Taking Examples	Enable the students to

CENTRAL PROBLEMS OF ECONOMY PRODUCTION POSSIBILITY CURVE	explain the concept of Micro and Macro Economics Taking various situations explaining the concept of positive and normative economics Asking students about various problems faced by every economy and thus relating to central problems of an economy Production possibility Curve asking the students various questions related to possibilities to cook different dishes and relating to PPC. Constructing diagram and explaining the curve	differentiate between micro and macro economics Students will be able to give examples of positive and normative economics Explain the problems of What to produce How to produce For whom to produce In various economic systems Construct PPC and explain the curve and points on PPC

MONTH: AUGUST,23 **NO OF WORKING DAYS:23**

TOPIC	METHODOLOGY	LEARNING OUTCOMES
CONSUMER EQUILIBRIUM-UTILITY APPROACH	Taking day to day examples introduce concept of utility Using schedule and blackboard with help of diagram explain relationship between TU and MU Using concept of MU explaining the law of diminishing marginal utility Taking real life examples explaining the concept of consumers equilibrium Using MU approach	Differentiate between different types of utility Enable the students to calculate TU and MU They will be able to calculate TU and MU Enable them to establish the relationship between TU and MU Students will be able to tell the conditions for consumers

INDIFFERENCE CURVE APPROACH	Both 1 commodity case and 2 commodity case Taking numerical examples explains how to attain equilibrium in 1 and 2 commodity cases. Starting the chapter with budget and asking questions on budget from students. Explaining the meaning of budget set, budget constraint, budget line Explaining them about preferences and how preferences must play an important role in finding out consumers equilibrium with indifference approach Using numerical values to construct budget line and indifference curve using black board Showing the students on the black board how consumer's equilibrium is calculated with the help of budget line and indifference curve Explaining them the conditions of consumer's equilibrium and why it is so with the help of diagram Meaning of Demand will be	equilibrium for 1 and 2 commodity case Enable them to numerically calculate consumers equilibrium in 1 and 2 commodity case Enable students to define budget line, budget set , budget equation Student will be able to tell the importance of consumers preference and budget line in finding out consumers equilibrium Construct the diagram showing consumer's equilibrium in indifference analysis Chalk out the conditions for consumers equilibrium in indifference analysis

DEMAND CONCEPT	introduced by taking examples Various factors affecting demand will be taken up using examples to explain their impact on Demand Using black board schedule will be used to explain the concept of demand schedule and demand curve (individual and market) both. Law of demand will be explained using demand schedule Using diagrams on black board concept of change in Demand and change in Quantity Demanded will be taught changes in demand will be shown in diagram and explained.	Construct the diagram showing consumers equilibrium in indifference analysis Differentiate between demand and desire draw demand curve relate demand to various factors affecting demand. By constructing a diagram of the demand curve and showing change in demand and change in quantity demanded.

MONTH: SEPTEMBER,23 **NO OF WORKING DAYS:23**

TOPIC	METHODOLOGY	LEARNING OUTCOMES
ELASTICITY OF DEMAND	Asking students questions on how much change in demand takes place as a result of change in price Relating this discussion with Ed ,concept of Ed will be explained in class	Enable students to differentiate between desire and Demand Chalk out the factors which affect Demand Differentiate between

	Various examples will be given to the students and asked about there Ed Various degrees of Ed will be explained with the help of diagram explaining concept of slope of Ed will be numerically explained with percentage method and total outlay method Various egs of numericals will be taken up on the black board to explain how to measure Ed.	normal and inferior goods substitute and complementary goods Draw the demand schedule and the demand curve Give reasons for the downward slope the demand curve Students will be able to measure Ed numerically
PRODUCERS BEHAVIOUR, PRODUCTION FUNCTION, PRODUCT CONCEPT	Explaining the meaning of production function Taking factors affecting production and asking students how it affects production Taking examples of production schedule to explain the concept of TPP,MPP,APPDraw the diagram of TPP,MPP APP and explain the relationship between TPP,MPPandAPP Law of production will be explained using the schedule of TPPand MPP in the short run.	Define production function Establish relationship between TPP and MPPusing diagram Draw curves of TPP,MPPand APP Enable the students to chalk out various phases of law of variable proportions They will be able to calculate MPP,APPand TPP Chalk out in which phase producer would like to produce.
COST CONCEPT AND	Concept of cost and revenue will be taken up by using live examples and cost and	Enable the students to define cost and revenue

REVENUE CONCEPT	revenue schedules will be used supported by curves to explain the concept of cost and revenue on the black board. Revenue curves will be discussed in reference to various forms of markets.	Differentiate between various cost concepts Establish relationships between TC,MC,AC using curves and schedules. Draw TR,MR and AR curves and understand the relationship between them. Draw the AR and MR curves in various markets and explain why the shape is so .
PRODUCERS EQUILIBRIUM PRODUCERS EQUILIBRIUM USING MR AND MC APPROACH REVISION FOR HALF YEARLY EXAM	Asking questions from students regarding where the producer would like to produce and hence introduce the topic of Producers equilibrium Taking example of perfect competition market schedule students will be asked to draw diagram Using diagram producer equilibrium will be explained using MR and MC.	Enable the students to define producer''s equilibrium Enable the students to draw diagrams showing producers equilibrium usingMR and MC curves. Students will be able to tell why MP=MC, when MC curve cuts MR from below is the point of producers equilibrium

MONTH: OCTOBER 2023 **NO OF WORKING DAYS:20**

TOPIC	METHODOLOGY	LEARNING OUTCOMES
SUPPLY	Meaning of Supply will be introduced by taking examples Various factors affecting supply will be taken up using examples to explain their impact on supply Using black board schedule will be used to explain the concept of supply schedule and supply curve (individual and market) Law of supply will be explained using supply schedule Using diagrams on black board concept of change in supply and change in Quantity supplied will be taught	Enable students to differentiate between stock and supply Chalk out the factors which affect supply Differentiate between normal and inferior goods substitute and complementary goods Draw the supply schedule and the supply curve Give reasons for the upward slope the supply curve Differentiate between change in supply and change in quantity supply using diagram Enable them to show changes on the supply curve as a result of change in factors affecting supply.
ELASTICITY OF SUPPLY(Es)	Asking students questions on how much change in supply takes place as a result of change in price Relating this discussion with Es,concept of Es will be	Define Es and chalk out the factors affecting Es Students will be able to tell degree of Es of various goods

	explained in class Various examples will be given to the students and asked about their Es Various degrees of Es will be explained with the help of diagram explaining concept of slope of Es also with it Examples of numericals will be taken up on the black board to explain how to measure Es, mathematically and interpret the result.	Students will be able to tell the values of various degrees of Es Enable students to draw the slope of various degrees of Es Enable students to mathematically calculate Es and interpret the result.
VARIOUS MARKET FORMS: PERFECT COMPETITION,	Asking questions from students about various markets and thus introducing the various market forms on the basis of competition Discussing meaning of perfect market form and explaining the implications of the features Using diagram explaining how prices are determined by the slope of the demand curve in perfect market form.	Define market on the basis of competition in the market Chalk out the features and its implications in perfect market Draw the diagrams of how prices are determined in perfect market form.

MONTH:NOVEMBER 23 NO OF WORKING DAYS:19

TOPIC	METHODOLOGY	LEARNING OUTCOMES
EQUILIBRIUM PRICE	Taking the concept of Demand & Supply explaining how prices will	Students will be able to show with

	be determined by Demand and Supply. Drawing diagram on black board explain how equilibrium price quantity is determined . Using diagrams explaining how with the change in DD and SS equilibrium price and quantity will be affected. Explaining the concept of Excess and Deficient Demand with the help of examples and diagrams and also how this situation is rectified by the government.	the help of a diagram, how equilibrium price and quantity is determined. Enable them to draw diagrams, showing the effect of changes in DD and SS on equilibrium price and quantity. Draw the curves showing situation of excess and deficient DD Students will be able to chalk out the steps taken by the government in the situation of excess and deficient DD.
CORRELATION	Explain the meaning of correlation using examples. Examples will be taken to explain the relationship between two variables. Types of correlation will be explained by examples and infographics.	Enable the students to understand the meaning of correlation. Enable them to establish relationships between the variables e.g positive and negative

	Infographics will be used to explain scatter diagrams. Numerical examples will be used to explain how to measure correlation by different methods. Through infographics analyze the degree and direction of the relationship between the variables.	correlation. Enable the students to estimate the degree of correlation through scatter diagrams. Enable them to calculate coeff of correlation and tell the degree of correlation between them.

Project will be given on any of the topics of Microeconomics.

MONTH :DECEMBER 23 NO OF WORKING DAYS:22

TOPIC	METHODOLOGY	LEARNING OUTCOMES
INDEX NUMBERS	Explain the meaning of index numbers Taking examples of few index numbers and asking students to tell about them Through numerical examples measuring index numbers will be explained. Discussing usage of index numbers in the Economy.	Enable the students to define index numbers They will give examples of some index numbers and where they are used. Chalk Out the formulas for index numbers. Enable them to calculate various index numbers numerically .

REVISION FOR PRACTICE EXAMS	Practice of subjective and objective type tests will be given through pen and paper tests. DAV Sample paper will be discussed in class	Students will be doing the sample paper in their registers .

MONTH:JANUARY, 2024 **NO OF WORKING DAYS:18**

TOPIC	METHODOLOGY	LEARNING OUTCOMES
PRACTICE EXAMS	Sample papers will be discussed in class . Practice of competency based questions will be given.	Enable them to attempt competency based questions.

MONTH: FEBRUARY 2024 **NO OF WORKING DAYS:15**

TOPIC	METHODOLOGY	LEARNING OBJECTIVES
ASSESSMENT OF FINAL PROJECT WILL BE DONE. ANNUAL EXAM FEBRUARY, 24	Viva will be taken from the project and project reports will be assessed	

CURRICULUM OF ENGLISH

CLASS

XI

2023-24

General Objective: To lead the learners to substantiate an understanding of the connection between writing and thinking and demonstrate effectiveness in using verbal and non-verbal language appropriate to the goal.
- Improve communication between student – student and teacher-student.

- To develop academic skills.

- To enhance the students' knowledge of subject content.

.To read literature with an appreciation for inter-relatedness of plot ,characters,theme and style.

APRIL 18 DAYS		
PROJECTED CONTENT	**METHODOLOGY**	**LEARNING OUTCOMES**
The Portrait of a Lady [Hornbill]	The session would begin with an interactive session wherein the learners would interpret the title of the lesson. The background knowledge of the author and his works would be given. The facilitator would develop the chain of events, with TEXT sequence or discourse/spoken with reference to the educational and personal domains. Difficult words and terms would be discussed. The prose will be explained. All possible questions and answers would be discussed and assigned. Enriching Vocabulary: veritable bedlam of chirruping, frivolous rebukes, serenity, seclusion with resignation, sagging skins of dilapidated drum.	They would develop their optimistic attitude towards life amidst many struggles. Will be able to develop an attitude to become more independent in thought and action, responsible and cooperative, understanding and tolerance, improved working relations respect for identities in relation to other people.
Poetry: A Photograph [Hornbill]	Pre-reading activity would be the first step wherein the students would delve deep into the title of the poem and	The students would be able to grasp the theme and meaning of the poem. They would be able to

	make an interpretation of the title as it indicates the subject and theme.(student- teacher interaction) They would compare the previous lesson The Portrait of a Lady with the title of the poem. The background of the poet would be discussed. The poem would be read aloud with proper intonation rhyme and rhythm. Difficult terms and words would be explained so that the students can predict the atmosphere of the world inside the poem. The poem would be explained covering the phrases, sentences and discourse as well as their structuring. Silent reading of the poem by the students within five minutes and listing the difficult terms. The figures of speech and rhyme scheme would be discussed. WORD JOURNEY: paddling, transient, perennial, labored ease, wry, snapshot.	read the poem with proper tone and rhyme and develop an interest in poetry. Their vocabulary would be strengthened. They would be able to draw a comparative study between human life and nature. They would be able to study a photograph
MAY 16 DAYS		
We're Not Afraid to die if We can all be together	The session will start with the warm up questions: Importance of Courage. Optimistic Approach. Line to line explanation.	The students would be able to learn how to overcome the direst stress by keeping optimistic approach.

The Summer of the Beautiful White Horse	The session would begin with an interactive phase wherein the learners would interpret the title of the story. The background of the author would be given. The story would be read aloud. The theme and underlying meaning would be discussed. Difficult words would be listed and explained. The moral of the story would be discussed. Vocabulary Enrichment: magnificence, wealthiest, pious, stillness, humor, irrigation ditches, crazy streak, enormous, capricious, vagrant.	The learners would be able to apply the literal, interpretative and critical level in analyzing a short story. They would be able to determine the tone of a short story. They would be able to comprehend the irony hidden in the story.
GRAMMAR: Determiners.	The session would be started with an audio-visual song of determiners. Quiz on determiners would be conducted. The learners would be asked to arrive at the rules. (Inductive method) The purpose and functions of the different types of determiners would be discussed with examples	The learners would be able to identify determiners and use them appropriately The comprehending skills would be improved. Sentence construction skills would be strengthened.
JULY 22 DAYS		
Classified Advertisements & Poster Making	1.Motivate students to write and express effectively. 2.Develop knowledge & purpose of writing Ads	Pre-Activity 1.Cut ours of different Ads will be shown to the students and discussion of differences 2.Students will be explained about the format and appropriate vocabulary and expression.

The Address [Snapshots]	The teacher will enable the students to comprehend the chapter. Appreciate the theme and message conveyed . Understand the effects of war.	The learners would be able to understand the consequences of war.
WRITING SKILLS: Speech Writing	The session would start with a pre-writing activity to create an interest towards writing. The teacher would define what a speech is and discuss the purpose of article writing. The different styles, subjects, purpose of article writing would be discussed. The teacher would explain the technique of accumulating ideas, focusing on ideas and facts, planning, organizing, evaluating, structuring and editing. They would be taught the importance and way of producing a finished piece of work with examples. The requirements of the content, beginning, body and end would be focused.	The students would develop an interest towards writing. Their planning and organizing techniques would be enhanced. They would be able to research on any subject and derive information from facts and present him in the form of a written piece. Their creative writing would be analyzed. The interpreting and evaluative skills would be strengthened.

GRAMMAR: **Clauses**	The teacher would start with the warm up session asking the students to frame sentences highlighting the difference between the subject and the predicate. The definitions of a phrase and clause would be given with examples. The difference between a phrase and a clause would be established. The dependent and independent clauses and phrases would be explained. Power Point presentations explaining phrases and clauses would be displayed.	The students would be able to identify clauses and phrases and establish the difference between the two. -the creative skills would be enhanced. - Students would develop team spirit and learn the art of coordination and cooperation.

READING SKILLS: **Note Making**	In the beginning of the session, a text would be provided to the students to read and involve in note making to test previous knowledge. The facilitator would train the students to read a text minutely, or listen carefully to select, analyze and summarize the main points. Ways of making notes would be discussed: Annotation, outline notes, column notes, mind maps and summary notes.	The learners would be able to differentiate between annotation, outline notes, column notes, mind maps and summary notes from a text. They would be able to use the note taking suggestions to develop good notes based on classroom discussions.
AUGUST 23 DAYS		

Discovering Tut **The Saga continues** **[Hornbill]**	To make the students understand the advancement in technology. To know about Egyptian belief.	The students would be able to grasp the theme and meaning of the prose. Their critical and creative thinking skills would be enhanced. They would be able to derive the moral values. They will be ready to accept the reality of life. Their vocabulary would be enriched. They would enhance their writing skills.
[Snapshots] **Play-Mother's Day**	The session would begin with warm up questions: Mother works from morning till night catering to the needs of everyone. Do we ever realize that she is also a human being and needs rest? Then line to line explanation of the chapter will be given.	The students will be able to understand the importance of Mother.
WRITING **Debate writing**	The format, rules, technique would be discussed with examples.	The learners would be able to organize their thoughts and express freely. They would develop
	The usage of language would be taught and students would be assigned written tasks.	an interest towards writing thus enhancing their writing skills. Their thinking skills would be enhanced.
GRAMMAR: **Sentence Reordering**	The session would begin with few sentences read out by the teacher and written on the interactive board. (Brain boosters) The teacher would wait for the students' responses to know whether they are able to point the errors. The teacher discusses the errors and comes to the rules. (inductive Learning)	They will be able to participate in the class discussion actively. They will be able to identify errors and frame grammatically correct sentences.

SEPTEMBER 23 DAYS		
Poem-The laburnum Top	The teacher will start the poem by telling the students about importance of nature. How to seek pleasure from nature and its bounty. Then the poem will be read aloud and line to line explanation will be given.	The students will be able to 1.know about the poet and his contribution. 2.Understand various sound words mentioned in the poem 3.Enjoy the beauty of nature.
POETRY: The Voice of the Rain [Hornbill]	The teacher would play a snippet of the he sound of rain and the learners would infer ideas and involve in an interactive session. The title of the poem would be open for class interpretation. The knowledge background of the poet would be given. The poem would be read aloud with proper stress and intonation. The teacher would discuss the theme, poetic devices and structure and rhyme. Word Journey.	The students would be able to grasp the theme and meaning of the poem. They would be able to read the poem with proper tone and rhyme and develop an interest in poetry. Their vocabulary would be strengthened. They would be able to draw a comparative study between human life and nature.

Chapter -Birth (Snapshots)	To inculcate the values of respect, time management, punctuality etc. Line to line explanation will be given.	The students will be able to learn the feeling of responsibility.

REVISION FOR HALF- YEARLY.		
OCTOBER 20 DAYS		
Adventure	To make the students understand the the History and its historians e.g Gangadhar Pant.	The students will understand the catastrophic experience.
	NOVEMBER 19 DAYS	
Silk Road (Hornbill)	To make the students understand the chapter and enhance their vocabulary.	The students will be able to understand the physical stress occur while travelling.

Childhood [Hornbill]	The session would start with an interaction on the title of the lesson. The title of the lesson would be open for class interpretation. The background of the author would be given. The lesson would be read aloud and discussed. Difficult words would be listed out and discussed. The synopsis would be shown with the help of a PPT.	The learners will be able to stimulate language development and increase the students' ability to write spontaneously. They would be able to respond to a personal dilemma. Their vocabulary would be enriched. The analytical skills would be enhanced.

DECEMBER 22 DAYS		
Father to Son [Hornbill]	The session would start with an interaction on interpreting the title of the prose and the poem. The title of the topic would be open for class interpretation. The background of the author would be given. The lesson would be read aloud and discussed. Difficult words would be listed out and discussed. The synopsis would be shown with the help of a PPT.	To facilitate making connections between similar situations in different storylines/life experiences. To help learners distinguish different perspectives; analyzing them; drawing conclusion/s. The learners would unfold their logical thinking skills.
Tale of Melon City.	The session will start with discussion on humour and power. The poem is about the atrocities of tho se in power. It is full of humour.	The students will be able to analyse the situation and take appropriate decision.
JANUARY (18)		
Chapter wise Tests of Complete Syllabus		
FEBRUARY(15]		
REVISION FOR ANNUAL EXAMINATION.		

MONTHWISE CURRICULUM OF PHYSICAL EDUCATION

CLASS XI

SESSION:2023-24

(APRIL – MAY)

1. (UNIT1) Changing Trends and Careers in Physical Education

1) Concept, Aims & Objectives of Physical Education
2) Development of Physical Education in India – Post Independence
3) Changing Trends in Sports- playing surface, wearable gear and sports equipment, technological advancements
4) Career options in Physical Education
5) Khelo-India Program and Fit – India

2. (UNIT 2.) Olympism Value Education

1) Olympism – Concept and Olympics Values (Excellence, Friendship & Respect)
2) Olympic Value Education – Joy of Effort, Fair Play, Respect for Others, Pursuit of Excellence, Balance Among Body, Will & Mind
3) Ancient and Modern Olympics
4) Olympics - Symbols, Motto, Flag, Oath, and Anthem
5) Olympic Movement Structure - IOC, NOC, IFS, Other members

(JULY – AUGUST)

3. (UNIT 4.) Physical Education and Sports for Children with Special Needs

1) Concept of Disability and Disorder
2) Types of Disability, its causes & nature (Intellectual disability, Physical disability).
3) Disability Etiquette
4) Aim and objectives of Adaptive Physical Education.
5) Role of various professionals for children with special needs (Counselor, Occupational Therapist, Physiotherapist, Physical Education Teacher, Speech Therapist, and Special Educator)

4. (UNIT 5) Physical Fitness, Wellness, and Lifestyle

1) Meaning & importance of Wellness, Health, and Physical Fitness.
2) Components/Dimensions of Wellness, Health, and Physical Fitness
3) Traditional Sports & Regional Games for promoting wellness
4) Leadership through Physical Activity and Sports.
5) Introduction to First Aid – PRICE

5. (UNIT 10.) Training & Doping in Sports

1) Concept and Principles of Sports Training
2) Training Load: Over Load, Adaptation, and Recovery
3) Warming-up & Limbering Down – Types, Method & Importance
4) Concept of Skill, Technique, Tactics & Strategies

(SEPTEMBER-OCTOBER)

6. (UNIT 7.) Fundamentals of Anatomy, Physiology in Sports

1) Definition and Importance of Anatomy and Physiology in Exercise and Sports.
2) Functions of the Skeletal System, Classification of Bones, and Types of Joints.
3) Properties and Functions of Muscles.
4) Structure and Functions of Circulatory System and Heart.
5) Structure and Functions of Respiratory System.

7. (UNIT 8) Fundamentals of Kinesiology and Biomechanics in Sports

1) Definition and Importance of Kinesiology and Biomechanics in Sports.
2) Principles of Biomechanics
3) Kinetics and Kinematics in Sports
4) Types of Body Movements - Flexion, Extension, Abduction, Adduction, Rotation, Circumduction, Supination & Pronation
5) Axis and Planes – Concept and its application in body movements

(NOVEMBER-DECEMBER)

8. (UNIT 3) Yoga

1) Meaning and importance of Yoga
2) Introduction to Astanga Yoga
3) Yogic Kriyas (Shat Karma)
4) Pranayama and its types.
5) Active Lifestyle and stress management through Yoga

9. (UNIT 6) Test, Measurement & Evaluation

1) Define Test, Measurements and Evaluation.
2) Importance of Test, Measurements and Evaluation in Sports.
3) Calculation of BMI, Waist – Hip Ratio and Skin fold measurement (3-site)
4) Somato Types (Endomorphy, Mesomorphy & Ectomorphy)
5) Measurements of health-related fitness

10. (UNIT 9.) Psychology and Sports

1) Definition & Importance of Psychology in Physical Education & Sports
2) Developmental Characteristics at Different Stages of Development
3) Adolescent Problems & their Management
4) Team Cohesion and Sports
5) Introduction to Psychological Attributes: Attention, Resilience, Mental Toughness

CURRICULUM 2023-2024
Chemistry
Class Xl

OBJECTIVES

1 Promote understanding of basic facts and concepts of chemistry.
2 Make students capable of studying chemistry in academic and professional courses.
3 Expose the students to various emerging new areas of chemistry and apprise them with their relevance in future studies.
4 Equip students to face various challenges related to health, nutrition ,environment,population, weather, industries and agriculture.
5 Develop problem solving skills in students.
6 Apprise students with the interface of chemistry with other disciplines of science such as Physics, Biology, Engineering Geology and Mathematics.
7 Acquaint students with different aspects of chemistry and its use in daily life.
8 Develop an interest in students to study chemistry as a discipline.
9 Integrate life skills and values in context of chemistry.

S.No	UNIT	No. of Periods	Marks
1	Some Basic Concepts of Chemistry	12	7
2	Structure of Atom	14	9
3	Classification of Elements and Periodicity in Properties	8	6
4	Chemical Bonding and Molecular Structure	14	7
5	Chemical Thermodynamics	16	9
6	Equilibrium	14	7
7	Redox Reactions	6	4
8	Organic Chemistry: Some basic Principles and Techniques	14	11
9	Hydrocarbons	12	10
	TOTAL		**70**

EXAM	MONTH	SYLLABUS
PERIODIC 1	**JULY**	**SOME BASIC CONCEPTS OF CHEMISTRY, STRUCTURE OF ATOM,CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES (HALF UNIT)**
PERIODIC 2 /HALF YEARLY	**SEPTEMBER**	**SOME BASIC CONCEPTS OF CHEMISTRY, STRUCTURE OF ATOM,CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES, CHEMICAL BONDING AND MOLECULAR STRUCTUR,,THERMODYNAMICS**
PERIODIC 3	**DECEMBER**	**REDOX REACTION,ORGANIC CHEMISTRY BASIC TECHNIQUES AND PRINCIPLES, HYDROCARBON,EQUILIBRIUM**
PRACTICE EXAM	**JANUARY**	**ALL NINE UNITS AS PER CBSE CURRICULUM**
ANNUAL EXAM	**FEBRUARY & MARCH**	**AS PER CBSE CURRICULUM**

Month : April
No. of days : 18

UNIT/TOPIC	METHODOLOGY	LEARNING OUTCOMES
UNIT Some basic concepts of chemistry No. of periods :12 TOPIC ● General introduction ● Importance and scope of chemistry ● Nature of matter ● Laws of chemical combinations ● Dalton's Atomic theory ● Concept of elements compounds and mixture ● Atomic and molecular masses ● Mole concept and molar mass ● Percentage composition ● Empirical and	Lecture method Interactive approach Peer teaching	Students will be able to ● Understand and appreciate the role of chemistry in different spheres of life ● Explain the characteristics of three States of matter ● Classify different substances into elements compounds and mixtures ● Use scientific notation ● Define SI base units and list some commonly used prefixes ● Differentiate between accuracy and precision ● Convert physical quantities from one system of units to another ● Explain various laws of chemical combination ● Appreciate significance of atomic mass average atomic mass molecular mass and formula mass ● Define the term mole and solve numericals on mole concept ● Calculate the mass percent of component elements constituting a compound. ● Determine empirical formula and molecular formula for a compound

molecular formula ● Chemical reactions ● Stoichiometry and calculations based on stoichiometry **PRACTICAL** **1** Basic laboratory techniques 2 Crystallization of Copper sulphate	 Demonstration Performing of experiments by students Recording of observations	from the given experimental data ● Perform the stoichoimetric calculations Students will be able to ● Develop skill in basic laboratory techniques ● Appreciate the importance of Crystallization as purification method

Month ; May
No. of days : 16

UNIT/TOPIC	**METHODOLOGY**	**LEARNING OUTCOMES**
UNIT Structure of atom No.of periods:14 Topic ● Discovery of electron proton and neutron ● Atomic number ● Isotopes and isomers ● Thomson's model and its limitations ● Rutherford 's model and its limitations ● Bohr's model and its limitation ● Concept of shells and Subshells ● Dual nature of matter and light ● de Broglie's relationship ● Heisenberg's uncertainty principle ● concept of orbitals ● Quantum	Lecture method Interactive approach Videos	Students will be able to ● Know about the discovery of electron proton and neutron and their characteristics ● Describe Thomson Rutherford and Bohr's atomic models ● Understand the important features of the quantum mechanical model of atom ● Understand nature of electromagnetic radiation and Planck's Quantum theory ● Explain the photoelectric effect and describe features of atomic spectra ● State the De Broglie relation and Heisenberg Uncertainty Principle ● Define atomic orbital in terms of quantum numbers ● State Aufbau's principle, Pauli's exclusion principle and Hund's rule of maximum multiplicity ● Write the electronic configuration of atoms

numbers ● Shapes of s,pand d orbitals ● Rules for filling electrons in atoms based on Pauli's exclusion principle,Aufbau's principle and Hund's rule ● Electronic configuration of atoms ● Stability of half filled and completely filled orbitals **PRACTICAL** Experiments based on pH determination and qcommonion effect **INVESTIGATORY PROJECT (As holidays homework)**	Demonstration Performing Experiment,Recording observations and analysis Guidelines for project work will be given	Students will be able to; ● Define pH ● Calculate pH ● Classify substances into acidic / basic ● Understand Concept of common ion effect Students will be able to ● Select topic of their project ● Collect relevant details ● Draft report

Month ; July
No. of days ;22

UNIT/TOPIC	**METHODOLOGY**	**LEARNING OUTCOMES**
UNIT Classification of elements and periodicity in properties No.of periods: 8 TOPIC ● Classification ● brief history of development of periodic table ● Modern Periodic law and present form of periodic table ● Periodic trends in properties of elements	Lecture method Group7y discussion Art integrated learning Power point presentation in groups	Students will be able to ● Appreciate how the concept of grouping elements in accordance to their properties lead to the development of periodic table ● Understand the periodic law ● Understand the significance of atomic number and electronic configuration as the basis of periodic classification ● Name the elements with atomic number greater than hundred according to IUPAC Nomenclature ● Classify the elements into s ,p, d and f blocks and learn their main characteristics ● Recognise the periodic trends in

● Atomic radii ● Ionic radii ● Inerrt gas radii ● Ionisation enthalpy ● Electron gain enthalpy ● Electronegativity Valency ● Nomenclature of elements with atomic number greater than 100		physical and chemical properties of elements ● Use scientific vocabulary appropriately to communicate ideas related to certain important properties of elements for example atomic radii, ionic radii ,ionization enthalpy, electron gain enthalpy, electronegativity and valence of elements
UNIT Chemical bonding and molecular structure No. of periods: 14 TOPIC ● Valence electrons ● Ionic bond covalent bond ● Bond parametres ● Lewis structures ● Polar character of covalent bond ● Covalent character of ionic bond ● Valence bond theory ● Resonance ● Geometry of covalent molecules ● VSEPR theory ● Concept of hybridisation involving s,p,and d orbitals ● Shapes of some simple molecules ● Molecular orbital theory of homonuclear diatomic molecules ● Hydrogen bond **PRACTICAL** Quantitative Analysis 1 preparation of standard solution of oxalic acid	Lecture method Interactive approach Preparation of 3D models by learners for better understanding	Students will be able to ● Understand kossel Lewis approach to chemical bonding ● Explain the octet rule and its limitations draw Lewis structures of simple molecules ● Explain the formation of different types of bonds ● Describe the VSEPR theory and predict the geometry of simple molecules ● Explain the valence bond approach for the formation of covalent bonds ● Predict the directional properties of covalent bonds ● Explain the different types of hybridization involving s p and d orbitals and draw shapes of simple covalent molecules ● Describe the molecular orbital theory of homonuclear diatomic molecules ● Explain the concept of hydrogen bonding

2 Titration of oxalic acid vs NaOH **INVESTIGATORY PROJECT**	Demonstration Performing volumetric titration involving neutralization reaction Discussion of individual report Performing experimwnts	Students will be able to ● Understand primary and secondary standards ● Perform neutralization titration ● Calculate molarity and strength. Students will be able to ● Perform experiments ● Record observations ● Analyze data

Month ; August
No. of days ;23

UNIT/TOPIC	**METHODOLOGY**	
UNIT Thermodynamics TOPIC ● Concept of system and types of systems ● Surroundings ● Work ● Heat ● Energy ● Extensive and intensive properties ● State functions ● First law of thermodynamics ● Internal energy and enthalpy ● Heat capacity and specific heat capacity ● Measurement of change in internal energy and change in enthalpy ● Hess's law of constant heat summation ● Enthalpy of bond dissociation, combustion, formation, atomisation, sublimation, phase transition, ionisation,	Lecture method Interactive approach	Students will be able to ● Explain the term system and surroundings ● Differentiate between open closed and isolated systems ● Explain internal energy work and heat ● State first law of Thermodynamics and Express its mathematical formulation ● Explain state functions like internal energy and enthalpy ● Correlate between change in internal energy and change in enthalpy ● Measure experimentally internal energy change and enthalpy change ● Defines standard enthalpies ● Calculate enthalpy change for various type of reactions ● State and apply Hess's law of constant heat summation ● Differentiate between extensive and intensive variables ● Define spontaneous and nonspontaneous processes ● Explain entropy is a thermodynamic state function and applied for spontaneity of a process ● Explain Gibbs Energy change ● Establish relationship between Gibb's energy change and spontaneity and equilibrium constant. ,

solution and dilution ● Second law of thermodynamics ● Introduction of entropy as a state function ● Gibb's energy change for spontaneous and nonspontaneous processes ● Third law of thermodynamics UNIT: Redox reactions No. of periods :6 TOPIC ● Concept of oxidation and reduction ● Redox reaction ● Oxidation number ● Balancing the redox reaction in terms of loss and gain of electrons and change in oxidation number ● Applications of redox reactions **PRACTICAL** Qualitative Analysis Analysis of acidic radicals **INVESTIGATORY PROJECT**	Lecture method Interactive approach Class discussion Demonstration Tests for acidic radicals Discussion	Students will be able to ● Identify a Redox reaction as a class of reactions in which oxidation and reduction reactions occur simultaneously ● Define the terms oxidation reduction oxidant and reductant ● Explain the mechanism of redox reaction by electron transfer process ● Use the concept of oxidation number to identify oxidant and reductant in a reaction ● Classify the redox reactions into combination ,decomposition, displacement and disproportionation reaction ● Balance chemical equations using oxidation number method and half reaction method ● Learn the concept of redox reactions in terms of electrode processes Students will be able to ● Understand systematic Analysis of acidic radicals ● Perform tests to identify acidic radical ● Write related chemical equation Students will partially complete project report

Month ; September
No. of days ;23

UNIT/TOPIC	METHODOLOGY	
Revision/Term exam	Pen paper test	

Month ; October
No. of days ; 20

UNIT/TOPIC	METHODOLOGY	
UNIT Organic chemistry Some basic principles and techniques No. of periods:14 TOPIC ● General introduction ● Methods of purification ● Qualitative and quantitative analysis ● Classification and IUPAC nomenclature of organic compounds ● Electronic displacement in covalent bond ● Inductive effect ● Electromeric effect ● Resonance and hyperconjugation ● Homolytic and Heterolytic fusion of a covalent bond ● Free radicals ● Carbocations and carbanions ● Electrophile and nucleophiles ● Types of organic reactions UNIT	Lecture method Group discussion Mind maps	Students will be able to ● Understand reasons for tetravalency of carbon and shapes of organic molecules ● Write structure of organic molecules in various ways ● Classify the organic compounds ● Name the compounds according to IUPAC system of nomenclature and also derive their structures from the given names ● Understand the concepts of Organic reaction mechanism ● Explain the influence of electronic displacement on structure and reactivity of organic compounds ● Recognise types of organic reactions ● Learn the techniques of purification of organic compounds ● Write the chemical reactions involved in the qualitative analysis of organic compounds ● Understand the principles involved in quantitative analysis of organic compounds

Hydrocarbon TOPIC ● Classification of hydrocarbons ● Aliphatic hydrocarbons ● Alkanes Nomenclature Isomerism Conformations Physical properties Chemical reactions ● Mechanism of halogenation ● Combustion and pyrolysis ● Alkenes Nomenclature Structure of double bond ● Geometrical isomerism **PRACTICAL** Salt Analysis Identification of basic radical **INVESTIGATORY PROJECT**	Lecture method Interactive approach Mind maps Demonstration Experimentation and Analysis Discussion	Students will be able to ● Identify basic radicals in given salt ● Apply Concept of common ion effect in identifying basic radical Students will finalize their project report

Month ; November
No. of days ;19

UNIT/ TOPIC	**METHODOLOGY**	LEA**RNING**
Unit Hydrocarbon Topics ● Physical properties ● Methods of preparation ● Chemical reactions ● Addition of hydrogen ,halogen ,water	Lecture Method Interactive approach Mind maps	Students will be able to ● Name hydrocarbons according to IUPAC system of nomenclature ● Recognise and write structures of isomers of alkanes ,alkenes, alkynes and aromatic hydrocarbon ● Learn about various methods of preparation of hydrocarbons ● Distinguish between alkanes alkenes alkynes and aromatic Hydrocarbons on the basis of physical and chemical

,hydrogen halides ,Markovnikov's addition peroxide effect, Ozonysis oxidation ● Mechanism of electrophilic addition ● Alkynes ● Nomenclature ● Structure of triple Bond ● Physical properties ● Methods of preparation ● Chemical reaction ● Acidic character of alkynes ● Addition reaction of hydrogen ,halogen hydrogen halides ,water ● Aromatic hydrocarbon ● Introduction ● IUPAC Nomenclature benzene ● Resonance ● Aromaticity ● Chemical properties ● Mechanism of electrophilic substitution Nitration ,sulphonation ,halogenation Friedal craft alkylation and acylation ● Directive influence of functional groups in mono substituted benzene ● Carcinogenity and toxicity		properties ● Draw and differentiate between various conformations of Ethane ● Appreciate the role of Hydrocarbons as a source of energy and for other industrial applications ● Predict the formation of addition products of unsymmetrical alkene and alkynes on the basis of mechanism ● Comprehend the structure of benzene explain aromaticity and understand mechanism of electrophilic substitution reactions of benzene ● Predict the directive influence of substituents in monosubstituted benzene ring

UNIT EQUILIBRIUM TOPIC ● Equilibrium in physical and chemical processes ● Dynamic nature of equilibrium ● law of mass action ● law of chemical equilibrium ● Equilibrium constant ● Factors effecting equilibrium nature ● Le chatlier's principle ● Ionic equilibrium ● Ionisation of acid and bases ● Strong and weak electrolytes ● Degree of ionisation of a poly basic acid ● Acidic strength ● Concept of pH ● Buffer solution ● Solubility product, and common ion effect **PRACTICAL** Salt analysis	Lecture Method Interactive approach Mind maps	Students will be able to ● Identify the dynamic nature of equilibrium involved in physical and chemical processes ● State Law of equilibrium ● Explain characteristics of equilibrium involved in physical and chemical processes ● Write expression for equilibrium constant ● Establish the relationship between equilibrium constant Kp and Kc ● Explain various factors that affect the equilibrium state of a reaction ● Classify substances acids and bases according to arrhenius bronsted lowry and Lewis concept ● Classify acid and bases as weak or strong in terms of the ionization constant ● Describe pH scale in expressing concentration of hydrogen ions ● Explain ionization of water ● Understand solubility product and ionic product ● Appreciate the importance of common Ion effect in qualitative analysis ● Appreciate the uses of buffer

Month ; December
No. of days ; 22

UNIT/TOPIC	**METHODOLOGY**	
REVISION PERIODIC 3	Pen paper test Interactive Doubt clearing sessions	

Month ; January
No. of days ;18

UNIT/TOPIC	METHODOLOGY	
PRACTICE EXAM REVISION	Pen paper test Discussion Doubt clearing sessions	

Month ; February
No. of days ;15

UNIT/TOPIC	METHODOLOGY	
ANNUAL THEORY AND PRACTICAL EXAMS	Pen paper test Practical exam	

Month : March
Annual Exam

Curriculum for the Academic Year 2023-2024

Subject: Hind. Music Vocal

Class: XI

Learning Objectives:-

1) **Learn Vocal Music**
2) **Short and Long Definitions in Hindi and English**

TERM-I

CONTENT	METHODOLOGY	LEARNING OUTCOME
April:- Short notes and Raag Bhairvi Parichey PRACTICAL: Raag Bhairvi	Learning of short notes and Taal with hand beats.	Students will know how to learn Layakari. Developing the sense of Taal beats.
May:- 26 Periods Short & Long Definitions and Introduction of Raga Bhairvi PRACTICAL:- Aalap and Taan in Raag Bhairvi	Lecture Method and Writing of Raag Bhairvi Notations with Aalap and Taan in Raag Bhairvi	Students will learn short definitions. Developing singing skills.
July:- 25 Periods; Brief study of Musical elements in natya shastra PRACTICAL:- Raag Bhairvi (Drut Khayal)	Lecture Method. Writing of the complete description and their importance.	Students will learn the way of writing Drut Khayal notations.

August:- 22 Periods; Definition of Khayal and Ek Taal PRACTICAL:- Raag Bihag with Aalap and Taan.	Lecture Method. Writing of Taan and Aalap	Developing rhythmic sense
September:- 14 Periods; Raag parichey of Bihag and short notes. PRACTICAL:- Practice of dugun and chaugun with hand beats. Also, making of the Practical File.	Lecture Method.	Developing the sense of Sur and Taal

TERM-II

CONTENT	METHODOLOGY	LEARNING OUTCOME
October:- 21 Periods; Brief study of Margi – Desi sangeet PRACTICAL:- Raag Bhimplasi Drut Khayal with simple elaboration	Learning of short notes and Taal with hand beats.	Students will know how to learn Layakari. Developing the sense of Taal beats.
November:- 20 Periods; Brief study of Drupad and Tarana as well as	Lecture and Demo Method	Students will learn the basic knowledge about classical music by Taanpura

knowledge and structure of Taanpura PRACTICAL:- One Drupad with dugun in any one of the prescribed Raag.		
December:- 25 Periods; Life Sketch and contribution of Tansen, Bhatkhande and Paluskar. PRACTICAL:- One Devotional Song and reciting of chautal with tha, dugun and chaugun	Lecture and Demo Method	Students will collect their photographs and will learn how to improve classical music
January:- 16 Periods; Practice of writing the composition of the prescribed Raag PRACTICAL:- Ability to recognise the prescribed Raag from the phrases of Swaras	More practice for perfection	Students will be prepared for the theory and the practical examination
February:- 15 Periods; Preparation for practical and theory examination	More practice for perfection	Garnished the Vocal Music Subject

CURRICULUM (2023-24)

Subject : Political Science

Class : XI

Objectives :

PART A- INDIAN CONSTITUTION AT WORK

· Understand the historical circumstances and the processes in which the Constitution was drafted.

· Be familiar with the diverse perspectives that guided the makers of the Indian Constitution.

· Analyze the working of the three pillars of democracy: Legislature, Executive, and Judiciary and their role with changing times.

· Identify the key features of the Indian Constitution and compare these to other constitutions in the world.

PART B-POLITICAL THEORY

· Recognize the ideas, concepts, and values inherent in the political life of a citizen.

· Systematic reflection and critical analysis of the political phenomenon.

· Provides a clarity on what is 'political' in relation to 'social', 'economic', 'moral', and the like.

· Augment the ability of students to build a good state in a good society, and create processes, procedures, institutions, and structures which could be rationally achievable

Month : April 2023

No. of working days : 18

Chapter No. and Name	**METHODOLOGY**	**LEARNING OUTCOMES**
PART-A **Chap1. Constitution: Why and How?** a) Why do we need a Constitution? · Constitution allows coordination and assurance · Specification of decision making powers · Limitations on the powers of government · Aspirations and goals of a society · Fundamental identity of a people b) The authority of a Constitution · Mode of promulgation · The substantive provisions of a constitution · Balanced institutional	● Comparative Analysis: Different constitutions ● Reading of the Preamble ● Group Discussions and Debates: ● What happens in an organization in the absence of a set of rules and regulations to run it? ● How far our National Movement influenced the framing of our Constitution? ● Timeline/Flowchart ● Question strategy ● Quiz	**After completion of the chapter, Students will be able to:** · Appreciate the need for a Constitution. · Understand the historical processes and the circumstances in which the Indian Constitution was drafted. · Critically evaluate how constitutions, govern the distribution of power in society. · Analyze the ways in which the provisions of the Constitution have worked in real political life.
PART-A **Chap-2**Rights in the Indian	● Discussion: Rights, the type of rights, why some	**After completion of the chapter students**

Constitution a) The importance of rights □ Bill of Rights b) Fundamental rights in the Indian Constitution □ Right to Equality □ Right to Freedom □ Right against Exploitation □ Right to Freedom of Religion □ Cultural and Educational Rights □ Right to Constitutional Remedies c) Directive principles of state □ what do the directive principles contain? d) Relationship between fundamental rights and directive principles .	rights are considered as fundamental? ● Lecture method ● Comparative analysis: Rights guaranteed in India and other countries ● Brain storming: Whether directive principles should take precedence over fundamental rights? ● Drama production	**will be able to:** · Analyze the working of the Constitution in real life · Learn to respect others, think critically, and make informed decisions · Identify violations of the rights to equality and freedom in the society around them. · Justify the need for reasonable restrictions on the rights guaranteed. · Use freedom of expression to advocate for ensuring rights is given to people around them

Month : May 2023
No. of working days : 16

PART-B **Chap.1** Political Theory: An Introduction a) What is politics? b) What do we study in political theory? c) Putting Political theory into practice d) Why should we study political theory?	● Collecting political cartoons from various newspapers and magazines and discussing the issues raised ● Reading the works of great thinkers ● Quiz	**After completion of the chapter, Students will be able to:** □ Define the term politics and identify various political principles. □ Explain the innate ideas of various Political theories. □ Appreciate the contribution of Political Thinkers (example: Jean Jacques Rousseau)
PART-B **Chap.2 Freedom** a) The Ideal of freedom b) The sources of Constraints-Why do we need constraints? c) The Harm Principle	● Discussion: Individual freedom Debate: Does dress code curtail individual freedom? ● Comparative Analysis: Negative and positive liberty	**After completion of the chapter, Students will be able to:** · Appreciate the ideal of freedom · Critically evaluate the dimensions of negative and

d) Negative and Positive liberty	● Examine current case studies related to the topic. ● Quiz	positive liberty. · Demonstrate spirit of enquiry · Explain the ideas introduced by J.S. Mill in Harm Principle. · Assess the possible limitations on freedom resulting from the social and economic structures of society.
PART-B **Chap.3 Equality** a) Why does equality matter? ● Equality of opportunities ● Natural and Social Inequalities b) Three dimensions of equality c) Feminism, Socialism d) How can we promote equality?	● Discussion and debate: *Promotion of equality* ● Reading the works of great thinkers. ● . ● Reflective Enquiry and Recapitulation ● Skit on Equality ● Role play	**After completion of the chapter, Students will be able to:** ● Understand the moral and political ideals of equality. ● Assess how equality is perceived through different ideologies ● Recognize the means and methods to promote equality.

Month : July 2023
No. of working days : 22

PART-A **Chap-3** **Election and Representation** a) Elections and democracy b) Election system in India ● First Past the Post System ● Proportional Representation c) Why did India adopt the FPTP system? d) Reservation of constituencies e) Free and fair elections ● Universal franchise and right to contest ● Independent Election Commission f) Electoral Reforms	● Conducting mock elections ● Comparative analysis: ● *Election processes of different countries* ● Reflecting on cartoons/ caricatures ● Group discussion: *Challenges and reforms* ● Reflective inquiry: Recapitulating known facts	**After completion of the chapter, Students will be able to:** ● Identify different types and methods of election ● Develop critical thinking about the role of various stakeholders in ensuring free and fair elections. ● Demonstrate the innate role played by Election Commission ● Compare election systems of different countries of the world.

PART-B **Chap-4 Social Justice** a) What is Justice? ● Equal Treatment for Equals ● Proportionate Justice ● Recognition of Special Needs b) Just distribution c) John Rawls Theory of Justice d) Pursuing Social Justice e) Free Markets versus State Intervention	● Debate: *Free Markets versus State Intervention* ● Quiz ● Comparative Analysis: *Dimensions of justice*	**After completion of the chapter, Students will be able to:** ● Classify the different dimensions of justice. ● Appreciate the measures taken by the government of India to secure social justice. ● Enlist the basic minimum requirements of people for living a healthy and productive life. ● State John Rawls' theory of veil of ignorance
PART-B **Chap5 Rights** a) What are Rights? b) Where do rights come from? c) Legal rights and the state d) Kinds of rights e) Rights and responsibilities .	● Discussion: *Importance of rights* ● Collaborative Learning- *Assigning task for acquiring information on different types of rights.* ● Comparative analysis: *Different type of rights*	**After completion of the chapter, Students will be able to:** ● Define rights ● Identify the need for rights and its importance to mankind. ● Explain why rights need to be sanctioned by law. ● Describe the features of different kinds of rights.

Month : August 2023
No. of working days : 23

PART -A	● Comparative Analysis:	**After completion of the**

Chap.4 Executive a) What is an executive? b) What are the different types of executives? c) Parliamentary executive in India ● Power and position of President ● Discretionary Powers of the President d) Prime Minister and Council of ministers e) Permanent Executive: Bureaucracy	*Different forms of Executive* ● Interpretation of Cartoons/ caricatures ● Discussion and Debate: *Powers and functions of the Real and Nominal Executive* ● Quiz	**chapter the student will be able to:** ● Recognize the meaning of Executive. ● Compare and contrast the Parliamentary and Presidential Executive. ● Analyze the composition and functioning of the executive. ● Know the significance of the administrative machinery
PART -A **Chap.5 Legislature** a) Why do we need a parliament? b) Why do we need two houses of parliament? ● Rajya Sabha ● Lok Sabha c) What does the parliament do? ● Powers of Rajya Sabha ● Special Powers of Rajya Sabha d) How does the parliament make laws? e) How does the parliament control the executive? f) What do the committees of parliament do? g) How does the parliament regulate itself?	● Comparative Analysis: ● *Powers and functions of Lok Sabha and Rajya Sabha* ● Passing of a Bill-Class activity/Mock Parliament ● Map activity: ● *Identification of states with bicameral legislatures* ● Cartoon Interpretation	**After completion of the chapter, Students will be able to:** ● Describe the law-making process in India. ● Differentiate between the powers and functions of Lok Sabha and Rajya Sabha. ● Examine the parliamentary control over the Executive. ● Analyze the role of Parliamentary committees for the success of Indian democracy.

PART -A **Chap.6 Judiciary** ● Why do we need an independent judiciary? ● Independence of Judiciary ● Appointment of Judges ● Removal of Judges b) Structure of the Judiciary c) Jurisdiction of supreme Court ● Original Jurisdiction ● Writ Jurisdiction ● Appellate Jurisdiction ● Advisory Jurisdiction d) Judicial Activism e) Judiciary and Rights f) Judiciary and Parliament	● Constructivist approach: *The importance of India's Judicial System.* ● Moot Courts ● Discussion: *Enhancing assertiveness of the Indian Judiciary.* ● Debates: *How far separation of Powers is practiced?*	**After completion of the chapter, Students will be able to:** ● Identify the different aspects which makes the Judiciary independent ● Compare and contrast the different jurisdictions ● Analyze the reasons why Judiciary has become proactive. ● Examine the reasons for the conflicts between the judiciary and parliament with respect to Constitutional Amendments.

Month : September 2023
No. of working days : 23

PART-B **Chap- 6 Citizenship** a) Introduction b) Full and equal membership c) Equal Rights d) Citizen and Nation e) Universal Citizenship f) Global Citizenship	● Discussion: *Norms of granting citizenship put forth by different countries* ● Debate: *Should India grant dual citizenship?* ● Interpretation of newspaper articles	**After completion of the chapter, Students will be able to:** ● Explain the meaning of citizenship. ● Contribute to meaningful discussion on ways of granting citizenship. ● Discuss the probable solutions or alternatives to solve citizenship issue. ● Analyze the problems to be surmounted to strengthen links between the people and governments

Month : October 2023

No. of working days: 20

PART- A **Chap.7 Federalism** a) What is Federalism? b) Federalism in the Indian Constitution ● Division of Powers c) Federalism with a strong central government d) Conflicts in India's federal system ● Centre-State Relations ● Demands for Autonomy ● Role of Governors and President's Rule ● Demands for New States ● Interstate Conflicts e) Special provisions ● Jammu and Kashmir	● Cartoon interpretation ● Textual reading ● Group Discussion/Debate: *Prevailing issues* ● *in Centre-state relations*. ● Map activity	**After completion of the chapter Students will be able to:** ● Explain the basic features of a federation. ● Identify the different levels of the government &subjects on which the union and state governments can make laws. ● Discuss the various constitutional provisions that led to a strong Centre in India.
PART-B **Chap.7 Nationalism** a)Introducing Nationalism b) Nations and Nationalism ● Shared Beliefs ● History ● Shared National Identity c) National self-determination d) Nationalism and Pluralism	● Recapitulation of definitions. ● Group interaction: *The factors that help in creating the sense of* ● *collective identity* ● Textual explanation ● Debate: *Can identity claims lead to social divisions or will it strengthen and recognize multiple identities?*	**After completion of the chapter, students will be able to:** ● Understand the concepts of nation and nationalism ● Assess the strengths and limitations of nationalism. ● Identify and build an understanding on the factors related to creation of collective identities ● Examine the concept of national self-determination ● Acknowledge the need

		to make nations more democratic and inclusive

Month : November 2023
No. of working days : 19

PART-A **Chap. 8 Local Governments** a) Why local governments? b) Growth of Local Government in India ● Local Governments in Independent India c) 73rd and 74th amendments d) 73rd Amendment ● Three Tier Structure ● Elections ● Reservations ● Transfer of Subjects ● State Election Commissioners ● State Finance Commission e) 74th Amendment f) Implementation of 73rd and 74th Amendments	● Recapitulation of definitions ● Timeline: *Depicting the emergence of local government.* ● Flowcharts: *On the structural arrangement of Panchayati Raj.* ● Concept maps: ● *The functions of local government bodies at the rural and urban level* ● Group presentation: Amendments ● Debate/group discussion: *The merits and demerits of decentralization*	**After completion of the chapter, students will be able to:** ● Understand the Panchaya Raj system of local government in India, its emergence and significan ● Identify the objectives, functions and sources of income of rural and urban local government bodies ● Justify the significance of 73rd and 74th constitutio amendments ● Acknowledge and examin the significance of decentralization ● Introspect and realize the need to empower local government bodies.
PART-B Chap.**8 Secularism** a) What is Secularism? ● Inter-religious Domination ● Intra-religious Domination b) Secular State c) The western model of secularism d) The Indian model of secularism e) Criticisms of Indian secularism ● Western Import ● Minoritism ● Interventionist ● Vote Bank Politics	● Discussion and Debate: *On Indian Secularism* ● Inquiry based learning ● Comparative Study*: The Western model and the Indian model of secularism.*	**After completion of the chapter, student will be able to:** ● Define Secularism. ● Differentiate between Int religious and Intra-Religio Domination. ● Recognize the concept of Secular State. ● Compare Western and Ind Model of Secularism. ● Make an appraisal of India Secularism.

Month : December 2023
No. of working days : 22

PART-A **Chap.9 Constitution as a Living Document** a) Are constitutions static? b) How to amend the constitution? c) Why have there been so many amendments? d) Contents of amendments made so far ● Differing Interpretations ● Amendments through Political Consensus ● Controversial Amendments e) Basic structure and evolution of the constitution f) Constitution as a Living Document ● Contribution of the Judiciary ● Maturity of the Political Leadership	● Brainstorming*: To assess the achievements and drawbacks of our Constitution* ● Debate: *Should the Judiciary have the power to determine the validity of amendments?* ● Discussion: *Are the amendments in the Constitution as per the needs and circumstances or guided by the whims and fancies of the ruling party?*	**After completion of the chapter, Students will be able to:** ● Analyze the working of the Constitution. ● Know the various amendments that have taken place and the controversies raised. ● Appreciate why the Constitution is called a Living Document.
PART-A **Chap.10 The Philosophy of the Constitution** a) What is meant by philosophy of the constitution? ● Constitution as Means of Democratic Transformation b) Why do we need to go back to the Constituent Assembly? c) What is the political philosophy of our constitution? ● Individual freedom ● Social Justice ● Respect for diversity	● Group discussion: *Guiding philosophy of the Indian Constitution* ● Question Strategy ● Quiz ● Reading the work of Great thinkers	**At the completion of the chapter, students will be able to:** ● Appreciate the philosophical vision of our Constitution. ● Recognize the core features of the Indian Constitution. ● Evaluate the strengths and limitations of the Constitution.

and minority rights ● Secularism		

Month : January 2024
No. of working days : 18

Practice from old CBSE board papers	Practice Exam	

Month : February 2024
No. of working days : 15

Discussion of doubts		

Curriculum 2023-24

Subject: Business Studies

Class: XI

Learning Objectives

1. To inculcate business attitude and develop skills among students to pursue higher education, world of work including self-employment.
2. To develop students with an understanding of the processes of business and its environment;
3. To acquaint students with the dynamic nature and interdependent aspects of business;
4. To develop an interest in the theory and practice of business, trade and industry;
5. To familiarize students with theoretical foundations of the process of organizing and managing the operations of a business firm;
6. To help students appreciate the economic and social significance of business activity and the social cost and benefits arising there from;
7. To acquaint students with the practice of managing the operations and resources of business;
8. To enable students to act more effectively and responsibly as consumers, employers, employees and citizens

April And May

Chapter	Methodology	Learning Outcomes
Part-A Unit-1 Evolution and Fundamentals of Business	Mind Maps, storytelling, Case studies & Role Play	**After going through this Unit, the students will be able to:** ·To acquaint the History of Trade and Commerce in India ·Understand the meaning of business with special reference to economic and non-economic activities. · Discuss the characteristics of business. · Understand the concept of business, profession and employment. · Differentiate between business, profession and employment · Appreciate the economic and social objectives of business. · Examine the role of profit in business · Understand the broad categories of business activities- industry and commerce · Describe the various types of industries. · Discuss the meaning of commerce, trade and auxiliaries to trade. · Discuss the meaning of different types of trade and auxiliaries to trade. · Examine the role of commerce trade and auxiliaries to trade · Understand the concept of risk as a special characteristic of

		business. · Examine the nature and causes of business risks.
Unit-2 Forms of Business organizations	Mind Maps, storytelling, Case studies & Role Play	List the different forms of business organizations and understand their meaning. · Identify and explain the concept, merits and limitations of Sole Proprietorship · Identify and explain the concept, merits and limitations of a Partnership firm. · Understand the types of partnership based on duration and on the basis of liability. · State the need for registration of a partnership firm. · Discuss types of partners – active, sleeping, secret, nominal and partner by estoppel · Understand the concept of Hindu Undivided Family Business · Identify and explain the concept, merits and limitations of Cooperative Societies. · Understand the concept of consumers, producers, marketing, farmers, credit and housing cooperatives. · Identify and explain the concept, merits and limitations of private and public companies. · Understand the meaning of one person company. · Distinguish between a private company and a

July,August and September		public company · Highlight the stages in the formation of a company. · Discuss the important documents used in the various stages in the formation of a company. · Distinguish between the various forms of business organizations. · Explain the factors that influence the choice of a suitable form of business organization.

Part-A Unit-3- Public, Private and Global Enterprises	Mind Maps, storytelling & Role Play	**After going through this Unit, the students will be able to:** · Develop an understanding of Public sector and private sector enterprises · Identify and explain the features, merits and limitations of different forms of public sector enterprises · Develop an understanding of Global Enterprises and public private partnership by studying their meaning and features.

Unit 4: Business Services	Mind Maps, storytelling & Role Play	· Understand the meaning and types of business services. · Discuss the meaning and types of Business service Banking · Develop an understanding of different types of bank account · Develop an understanding

		of the different services provided by banks · Recall the concept of insurance · Understand Utmost Good Faith, Insurable Interest, Indemnity, Contribution, Doctrine of Subrogation and Causa Proxima as principles of insurance · Discuss the meaning of different types of insurance- life, health, fire, marine insurance. · Understand the utility of different telecom services

Part-A Unit 5: Emerging Modes of Business	Mind Maps, storytelling & Role Play	**After going through this Unit, the students will be able to:** · Give the meaning of e-business. · Discuss the scope of e-business. · Appreciate the benefits of e-business · Distinguish e-business from traditional business.

September Revision for Ist Term

October

Chapter	Methodology	Learning Outcomes
Unit 6: Social Responsibility of Business and Business Ethics	Mind Maps & Role Play	· State the concept of social responsibility. · Examine the case for social responsibility · Identify the social responsibility towards different interest groups. · Appreciate the role of business in environment protection · State the concept of business ethics.

		· Describe the elements of business ethics

Instructions regarding project work and preparation of the same

Chapter	Methodology	Learning Outcomes
Part-B Unit 7: Sources of Business Finance	Mind Maps, storytelling & Role-play	**After going through this Unit, the students will be able to:** · State the meaning, nature and importance of business finance · Classify the various sources of funds into owners' funds. · State the meaning of owners' funds. · State the meaning of borrowed funds. · Discuss the concept of debentures, bonds, loans from financial institutions and commercial banks, Trade credit and inter corporate deposits. · Distinguish between owners' funds and borrowed funds

November

Unit 8: Small Business and Enterprises	Mind Maps, storytelling & Role-play	· Understand the concept of Entrepreneurship Development (ED), Intellectual Property Rights · Understand the meaning of small business · Discuss the role of small business in India · Appreciate the various Government schemes and agencies for development of small scale industries. NSIC and DIC with special reference to rural, backward area.

Part-B Unit 9: Internal Trade	Mind Maps, storytelling	**After going through this Unit, the students will be able to:** · State the meaning and types of internal trade. · Appreciate the services of wholesalers and retailers · Explain the different types of retail trade · Highlight the distinctive features of departmental stores, chain stores and mail order businesses. · Understand the concept of GST
December		
Unit 10: International Trade	Mind Maps, storytelling	· Understand the concept of international trade. · Describe the scope of international trade to the nation and business firms · State the meaning and objectives of export trade. · Explain the important steps involved in executing export trade · State the meaning and objectives of import trade. · Discuss the important steps involved in executing import trade · Develop an understanding of the various documents used in international trade. · Identify the specimen of the various documents used in international trade. · Highlight the importance of the documents needed in connection with international trade transactions · State the meaning of World Trade Organization. · Discuss the objectives of World Trade Organization in

		promoting international trade

Revision of syllabus along with practice of DAV Sample Papers

Curriculum 2023-24
Subject: Accountancy
Class: XI

Learning Objectives
1.To familiarize students with new and emerging areas in the preparation and presentation of financial statements.
2. To acquaint students with basic accounting concepts and accounting standards.
3. To develop the skills of designing a need-based accounting database.
4. To appreciate the role of ICT in business operations.
5. To develop an understanding about recording of business transactions and preparation of financial statements.

April And May

To acquaint students with basic accounting concepts and accounting standards.

Chapter	Methodology	Learning Outcomes
Part-A Unit-1: Theoretical Framework	Mind Maps & Storytelling	**After going through this Unit, the students will be able to:** · describe the meaning, significance, objectives, advantages and limitations of accounting in the modern economic environment with varied types of business and non-business economic entities.

		· identify / recognise the individual(s) and entities that use accounting information for serving their needs of decision making. · explain the various terms used in accounting and differentiate between different related terms like current and non-current, capital and revenue. · give examples of terms like business transaction, liabilities, assets, expenditure and purchases. · explain that sales/purchases include both cash and credit sales/purchases relating to the accounting year. · differentiate among income, profits and gains. · state the meaning of fundamental accounting assumptions and their relevance in accounting. · describe the meaning of accounting assumptions and the situation in which an assumption is applied during the accounting process. · explain the meaning and objectives of accounting standards. · appreciate that various accounting standards developed nationally and globally are in practice for bringing parity in the accounting treatment of different items. · acknowledge the fact that recording of accounting transactions follows a double entry system. · explain the basics of

		recording accounting transaction and to appreciate that accrual basis is a better basis for depicting the correct financial position of an enterprise. · Understand the need of IFRS · Explain the meaning, objective and characteristic of GST.

July & August & October

Chapter	Methodology	Learning Outcomes
Part-A Unit-2: Accounting Process	Mind Maps, Storytelling & Role play	**After going through this Unit, the students will be able to**: · explain the concept of accounting equation and appreciate that every transaction affects either both the sides of the equation or a positive effect on one item and a negative effect on another item on the same side of accounting equation. · explain the effect of a transaction (increase or decrease) on the assets, liabilities, capital, revenue and expenses. · appreciate that on the basis of source documents, accounting vouchers are prepared for recording transactions in the books of accounts. · develop the understanding of recording of transactions in a journal and the skill of calculating GST. · explain the purpose of maintaining a Cash Book and develop the skill of

		preparing the format of different types of cash books and the method of recording cash transactions in Cash books. · describe the method of recording transactions other than cash transactions as per their nature in different subsidiary books . · appreciate that at times bank balance as indicated by cash book is different from the bank balance as shown by the pass book / bank statement and to reconcile both the balances, a bank reconciliation statement is prepared. · develop understanding of preparing bank reconciliation statements. · appreciate that for ascertaining the position of individual accounts, transactions are posted from subsidiary books and journal proper into the concerned accounts in the ledger and develop the skill of ledger posting. · explain the necessity of providing depreciation and develop the skill of using different methods for computing depreciation. · understand the accounting treatment of providing depreciation directly to the concerned asset account or by creating provision for depreciation accounts. · appreciate the method of asset disposal through the concerned asset account or by preparing an asset

		disposal account. · appreciate the need for creating reserves and also making provisions for events which may belong to the current year but may happen in next year. · appreciate the difference between reserve and reserve fund. · state the need and objectives of preparing trial balance and develop the skill of preparing trial balance. · appreciate that errors may be committed during the process of accounting. · understand the meaning of different types of errors and their effect on trial balance. · develop the skill of identification and location of errors and their rectification and preparation of suspense account.

<u>September: Revision of 1st Term examination</u>

<u>October: Project work</u>

<u>November and December</u>

Chapter	Methodology	Learning Outcomes
Part-B Unit 3: Financial Statements of Sole Proprietorship Incomplete Records	Mind maps Story telling Role Play	**After going through this Unit, the students will be able to:** · state the meaning of financial statements the · Purpose of preparing financial statements. · state the meaning of gross

		profit, operating profit and net profit and develop the skill of preparing trading and profit and loss accounts. · explain the need for preparing a balance sheet. · understand the technique of grouping and marshalling of assets and liabilities. · appreciate that there may be certain items other than those shown in trial balance which may need adjustments while preparing financial statements. · develop the understanding and skill to do adjustments for items and their presentation in financial statements like depreciation, closing stock, provisions, abnormal loss etc. · develop the skill of preparation of trading and profit and loss account and balance sheet. · state the meaning of incomplete records and their uses and limitations. · develop the understanding and skill of computation of profit / loss using the statement of affairs method.

Revision of syllabus along with practice of DAV Sample Papers

CURRICULAM
2023-24
SUBJECT- PHYSICS
CLASS-XI

Learning objectives:

1. Strengthen the concepts developed at the secondary stage to provide frim foundation for further learning in the subject.
2. Expose the learner to different processes used in physics related industrial and technological application.
3. Develop process skills and experimental, observational, manipulative, decision making and investigatory skills in the learners.
4. Develop conceptual competence in learners and make and appreciate the interface of physics with other disciplines.

Month: April
No of working days: 18

Chapter	Methodology	Learning outcome
Unit-1 : physical world and measurement Unit-2 : kinematics	Lecture method/interactive/demonstration	● Would able to understand scope of physics, nature of physics laws and observe relation of physics to society ● Would able to understand necessity of measurement , units , systems of unit. ● Would able to determine dimension of physical quantity and analyse dimension and its application. ● Understand the meaning of significant figures and able to do mathematical

		operation with significant figure. ● Would able to draw position-time and velocity-time graph and able to understand their significance. ● Would able to understand elementary concepts of differentiation and integration for disturbing motion. ● Would able to understand the difference between uniform and non uniform motion. ● Would able to determine instantenous and average speed and acceleration. ● Would able to derive relations for uniformly accelerated motion. ● Would able to develop problem solving skills on these concept/topics.

Month: may
No. Working days : 16

Chapter	Methodology	Learning outcome
Unit-2 : kinematics	Lecture method/interactive/demonstration	● Would able to differentiate between scalar and vector quantity. ● Would able to distinguish between displacement vector and position vector. ● Would able to understand the representation of vector, multiplication, addition and subtraction. (triangle law of vector/parallelogram law of vector addition.) ● Would able to define unit vector and resolve of vector plane, rectangular components. ● Would able to find scalar and cross product and observe the difference between them. ● Would able to define the projectile, understand the projectile motion, its trajectory and able to calculate the various parameter

		like maximum height, time of flight, horizontal range. ● Would able to understand uniform circular motion and calculate centripetal acceleration.

Month : July
No .Working days : 22

Chapter	Methodology	Learning outcome
Unit:1 and 2 revision for periodic I Unit-3 : laws of motion	Lecture/interactive/demonstration/PPT	● Would able to understand the concept of force, inertia, linear momentum impulse and netwon's laws of motion. ● Would able to understand the conservation of linear momentum and its application. ● Would able to understand the equilibrium of concurrent forces. ● Would able to distinguish between static, limiting and kinematic friction. ● Would able to understand motion on a level circular road and vehicle on banked road.

		● Would able to develop problem solving skills on these concept/topics.

Month : August
No. of working days: 23

Chapter	Methodology	Learning outcome
Unit-4 : work energy and power Unit -5 : system of particle and rotation motion	Lecture/interactive/PPT	● Would able to determine the work done by constant/variable force. ● Would able to distinguish between the kinetic and potential energy and derive the work-energy theorm. ● Would able to distinguish between the energy and power. ● Would able to derive the potential energy stored in spring. ● Would able to distinguish between the conservative and non conservative forces. ● Would able to understand and interpret motion in vertical circle. ● Would able to understand different kinds of collsion in one/two dimensions.

		● Would able to develop problem solving skills on these concept/topics. ● Would able to understand the center of mass of two particle system, momentum conservation, center of mass motion, center of mass of rigid body and center of mass of uniform rod. ● Would able to understand the concept of torque and angular momentum and able to establish relation between them. ● Would able to understand equilibrium of rigid bodies, equation of rotational motion. ● Would able to understand the moment of inertia and its significance and determine moment of inertia of rigid body of different shape. ● Able to state thermo of parallel/perpendicular axes. ● Would able to compare between rotational and

		translation motion

Month : September
No. of working days : 23

Chapter	Methodology	Learning outcome
Unit-6 : gravitation Revision for periodic II	Lecture/interactive/demonstration	● Would able to state newton law of gravitation and kepler laws of planetry motion. ● Would able to understand the acceleration due to gravity and its variation with attitude/depth. ● Would able to distinguish between gravitational potential energy and gravitational potential. ● Would able to determine the expression for escape velocity , orbital velocity, time period of satellite. ● Would able to understand the geostationary satellite and their application. ● Would able to develop problem solving skills on these

		concept/topics.

Month : October
No. of working days : 20

Chapter	Methodology	Learning outcome
Unit-7 : properties of bulk matter	Lecture/interactive/demonstration	● Would able to understand the elastic behavior of solids, stress-strain relationship , hooks law. ● Would able to define youngs modulus, bulk modulus, modulus of rigidity and poission ratio. ● Would able to calculate the elastic energy. ● Would able to define pressure. ● Would able to state passcal laws and its application. ● Would able to define viscosity, stokes law, terminal velocity. ● Would able to distinguish between the laminar flow, stream flow and turbulent flow. ● Would able to state bernualls theorm and its application.

		● Would able to define surface tension, surface energy, angle of contact. ● Would able to calculate the excess pressure inside liquid drop/ soap bubble. ● Would able to understand capillary and its action.

Month : November
No. of working days : 19

Chapter	Methodology	Learning outcome
Unit-7 : properties of buk matters Unit- 8 : thermo dynamics	Lecture/interactive/PPT/methodology	● Would able to understand the thermal expansion of solid, liquid and gases, anomalous expansion of water. ● Would able to define specific heat capacity, C_P and $C_{V.}$ ● Would able to understand the principle of claorimetery and latent heat capacity. ● Would able to understand the

		transfer of heat though conduction, convention and radiation. ● Woulds able to understand the concept of black body, wien displacement law and stefans law and green house effect. ● Would able to develop problem solving skills on these concept/topics. ● Would able to understand the concept of thermal equilibrium and define zeroth law of thermodyanmics. ● Would able to distinguish between the heat, wave and initernal energy. ● Would able to state first law of thermo dynamics, second law of thermo dynamics and understand their significance. ● Would able to distinguish

		between the isothermal and adiabatic process, reversible and irreversible process. ● Would able to understand the working of heat engine and refrigeration.

Month : December
No. of working days : 22

Chapter	Methodology	Learning outcome
Unit-9 : kinetic theory of gases Unit- 10 : oscillation and waves	Lecture/interactive/PPT/methodology	● Would able to understand equation of perfect gas, assumption of kinetic theory of gases. ● Would able to establish the expression for pressure exerted on wall of container by gas. ● Would able to understand kinetic interpretation of

		temperature, rms speed of gas. ● Would able to define the degree of freedom, law of equipartion of energy and apply it to calculate specific heat of gases. ● Would able to understand the concept of mean free path, Avogadro number. ● Would able to distinguish between the periodic motion, oscillatory motion and simple harmonic motion. ● Would able to distinguish between periodic function harmonic function and able to find time period. ● Would able to understand the concept of amplitude, frequency, time period, displacement and phase.

		● Would able to understand the oscillations of loaded spring. ● Would able to determine KE, PE AND TE of particle executing ● Would able to derive expression for time period of simple pendulum. ● Would able to distinguish between free, forced, damped oscillation and resonance. ● Would able to develop problem solving skills on these concept/topics. ● Would able to understand concept of wave motion. ● Would able to distinguish between the transverse and longitudinal waves. ● Would able to find speed of travelling waves. ● Would able to distinguish between

		progressive wave and standing wave. ● Would able to understand the formation of standing wave in string and organ pipes, fundamental modes and harmonics. ● Would able to understand concept of beat and Doppler effect and able to find apparent frequency. ● Would able to develop problem solving skills on these concept/topics.

Month : January
No. of working days : 18

Chapter	Methodology	Learning outcome
Revision for practice paper	Class test/interactive /group discussion	Performance enhancement

11th Class Fashion Studies (Activity)
Session 2023-24
Syllabus

Learning Objective

The purpose of the Fashion Studies is to tell the students about the fundamentals of Fashion Design. Fashion Design as a profession includes the entire process of designing and producing fashion apparels from fiber and yarn stage to the finished product. It will give an overview of Fashion Design and elaborate on different aspects like elements of design, history of Fashion, fabrics and understanding of the body pattern development and garment construction. It is a big business and a key driver for several industries.

1st Term

April	May	July	August	September
Introduction	Self management skills	Ict skills	Ict Skills	Printing
Communication skills	Overview of Fashion	Introduction of fabrics, Dyeing and Printing	Design Fundamentals	Dyeing
Elements of design	Collection of swatches	-	-	Textures
Different types of lines	-	-	-	-
-	-	-	-	-
-	-	-	-	-

2nd Term

October	November	December	January
Entrepreneurial Skills	Green Skills	Processes of product making	Revision
Design Fundamentals	Materials tools of product making	-	Completion of practical work.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

11th Class Painting (Activity)
Session 2023-24
Syllabus

Learning Objective

The objective is to familiarize the students with the various styles of modes of art expressions from different parts of India. This would enrich their vision and enable them to appreciate and develop an aesthetic sensibility to enjoy the beauty of nature and life. The students will also have an opportunity to observe and study the evolution of its mutations and synthesis with other styles and rise altogether new styles.

1st Term

April	May	July	August	September
Theory	Shadangas	Indus Valley Civilisation	Theory	Theory
Practical	Different objects, still life	Fruits and vegetables	Hindu Art	Practical
Introduction of Arts	Pre Historic Period	Composition	Practical	Buddhist Jain Hindu Art
Elements and Principles of Arts	-	-	Birds	Landscape in perspective
Basic Sketching, Lines, Shapes and Forms	-	-	Folk art	-
-	-	-	-	-

2nd Term

October	November	December	January
Theory	Theory	Theory	Theory
Practical	Practical	Practical	Practical
Ajanta Art	Indian Temples and Bronze	Indo-Islamic Architecture	Revision
Trees and Landscapes	Birds or Animals composition	Human Figures and Transport	Completion Of Portfolio
-	-	-	-
-	-	-	-

SHORTHAND ENGLISH
STENOGRAPHER / EXEXUTIVE ASSISTANT
Class: XI
Session 2023-24
Syllabus

PART A	EMPLOYABILITY SKILL
APRIL 18 DAYS	Unit -1 Communication Skill
MAY 16 DAYS	Unit -1 Communication Skill
JUNE	Summer Break
JULY 22 DAYS	Unit -2 Self Management Skill PT -1 Syllabus : Unit -1 Communication Skill Unit 2 Self Mangement Skill
August 23 Days	Unit -3 ICI Skill
September	Unit -3 ICI Skills Revisioin for Half yearly Examination Half Yearly Examination /PT-2 Syllabus: Unit -1 : Communication Skill Unit 2: Self Mangement Skill Unit3 : ICI Skill
October 20 Days	Unit 4 : Enterpreneurial Skill
November 19 Days	Unit 4 Enterpreneurial Skill
December 22 Days	Unit 5: Green Skill and Revision PT-3 Syllabus – Unit 4: Entrepreneurial Skill Unit 5 Green Skill
January 18 Days	Revision and Practice Exam Preparation Practice Exam Syllabus Unit 1 : Communication Skill Unit 3 : ICI Skill Unit 4 : Enterpreneurial Skill
February 15 Days	Revision for Final Examination Syllabus : Whole Syllabus
PART B	Subject Specific Skill
APRIL 18 DAYS	Unit -1 Introduction to stenography Unit -2 Consonant and their joining
MAY 16 DAYS	Unit -3 Vowel , Dipthonge and Triphones , Grammalogues and punctuation signs
JUNE	Summer Break
JULY 22 DAYS	Unit -4 : Alternative Forms of ‘R” and ‘H’ abbreviated ‘W” , phraseography and tict ‘the’

	PT-1 Syllabus: Unit -1 Introduction to stenography Unit -2 Consonants and their Joining Unit -3 : Vowels Dipthongs and Triphones , Grammalogues and Punctuation Signs
August 23 Days	Unit 5 Circles and Loops
September 23 days	Unit 5 Circle and Loops and Revision for PT 2 Half yearly Examination /pt2 Syllabus Unit -1 Introduction to stenography Unit -2 Consonants and their joining Unit -3 Vowels, Dipthonge and Triphone Grammalogue and Punctuation Signs Unit -4 Alternative Form of 'R'and 'H 'abbreviated 'W', Phraseography and Tick 'the' Unit 5 Circle and Loops
October 20 Days	Unit 6 : Hooks (Initial and Final)
November 19 Days	Unit 7 : Halving Principle and Doubling Principal
December 22 Days	Unit 8 : Compound consonants Dot and Tick 'H' PT3 Syllabus Unit -7 Halving principle and Doubling Principle Unit -8 Compound Consonants Dot and Tick 'H'
January 18 Days	Revision and Practice Examination Practice Examination Syllabus Unit 6: Hooks (Initial and Final) Unit 7 : Halving Principle and Doubling Principle Unit 8 : Compound Consonants Dot and Tick 'H'
February 15 Days	Revision for final Examination Syllabus : Whole Syllabus Note : 1. Practical practicer will be initiated as per the requirement / demand of the respective topics in Part A as well as Part B i.e. Employability Skill and Subject Skills 2. Project work will be done as per the syllabus

OFFICE PROCEDURES AND PRACTICALS
CLASS - XI

Part A	Employability Skill
April 18 days	Unit -1 Communication Skill
May 16 days	Unit -1 Communication Skill continued
June	Summer Break
July 22 days	Unit -2 Self Management Skill
	PT -1 (20 Marks)
	Syllabus : Unit -1 Communication Skill
	Unit – 2 Self Management Skill
August 23 days	Unit -3 ICI Skill
September 23 days	Unit -3 ICI Skill continued Revision for half yearly examination Half Yearly Examination (50 marks)PT-2 Syllabus : Unit I Communication Skill Unit II Self Management Skill Unit III ICI skill
October 20 Days	Unit -4 Entrepreneurial Skill
November 19 Days	Unit -4 Entrepreneurial Skill continued
December 22 Days	Unit -5 Green Skill and Revision Pt -3 (20 Marks) Syllabus – unit 4 and 5
January 18 Days	Revision and Practice Exam Preparation Practice Exam (20 Marks) Syllabus : Unit 1 Communication Skill Unit 3 ICI Skill Unit 4 Entrepreneurial Skill
February 15 Days	Revision for Final examination
Part B	SUBJECT SPECIFIC SKILLS
April 18 Days	Unit -1 Introduction of office , office Manager, organizational charts and Manuals
May 16 Days	Unit -4 Communication
June	SUMMER VACATIONS
July 22 Days	Unit -2 Office – Space and Environment Management PT-1 Syllabus : Unit -1 : Introduction of Office , Office Manager Unit 2 : Office –Space and Environment Management Unit -4 : Communication
August 23 Days	Unit -3 Office Form and Stationary

September 23 Days	Unit -5: Office Machines Half yearly Examination /PT Syllabus : Unit 1 : introduction of office , Office Manages Organizational Charts and Manuals Unit 2 : Office space and Environment Management Unit 3: Office Forms and Stationery Unit 4: Communication
October 20 Days	Unit 6: Correspondence – Business and Government
November 19 Days	Unit 6: Correspondence e – Business and Government continued
December 22 Days	Practice of Correspondence – like official letters, demi Official letters, Memorandum, Notification , Office Order , Circulars etc continued. PT-2 Practice Examination Syllabus : Unit 5 : Office Machines Unit 6 : Correspondence Business and Government
January 18 Days	Revision and Practice Examination Preparation Practice Examination Syllabus : Unit 6: Correspondence – Business and Government
February 15 Days	Revision for Final Examination Whole Syllabus Note : 1. Practical practice will also be initiated as per the requirement / demand of the respective topics in Part A as well as Part B i.e. Employability skill and subject specific skill. 2. Project work will be done as per the syllabus