D.A.V.PUBLIC SCHOOL PUNE SUB:-PHYSICS (2023-24)

Month	Unit/Content	Expected Learning Outcome	Suggested Activities	Values/Skills
April (14 Days)	Unit 2. Kinematics Chapter 3: Motion in a straight line. Frame of reference, Motion in a straight line, Elementary concepts of differentiation and integration for describing motion, Uniform and Non- uniform motion, Instantaneous velocity, Relations for Uniformly accelerated motion (graphical treatment	 Student will understand use of equations of motion in day to day life. They will be able to relate relative velocity with their daily life experience 	To derive equations of motion using mathematical method, graphical method.	To appreciate the contribution of Newton .
June (19 Days)	Unit 1. Physical World and Measurement Chapter 2: Units and measurements. Need for measurement, System of units, SI units, Dimensions of physical quantities, dimensional analysis and its applications.	 Students will understand conversion of one system of units into another. With the help of dimensional analysis they will be able to verify standard equations. 	 Using vernier calipers, find the diameter and volume of a wire. To prepare a paper scale of a given least count. 	 To develop the practical use of vernier calipers and other measuring instruments in lab. To develop scientific temperament of the students.

July (24 Days)	Chapter 4. Motion in a plane. Scalar and vector quantities, position and displacement vectors, general vectors and their notations, equality of vectors, multiplication of vectors by a real number, addition and subtraction of vectors, Unit vector, resolution of a vector in a plane, rectangular components, Scalar and Vector product of vectors. Motion in a plane, cases of uniform velocity and uniform acceleration, Projectile motion, Uniform circular motion. Revision for Unit test	 Students will learn about resolution of vectors. They will be able to solve problems of vectors. Students will learn about different techniques used in projection of bodies in vertical and circular directions. 	To find the range of projectile using jet of water. To verify parallelogram law of vector addition	To relate projectile motion in their daily life. To relate projectile motion in satellite motion.

August (20 days)	Unit 3. Laws of motion. Chapter 5: Laws of motion Intuitive concept of force, Inertia, Newton's first law of motion, momentum and Newton's second law of motion, Impulse, Newton's third law of motion, Law of conservation of linear momentum and its applications, Equilibrium of concurrent forces, Static and kinetic friction, laws of friction, rolling friction, lubrication. Dynamics of uniform circular motion, centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road).	 Students will learn about basic laws of inertia and their application. Students will learn about conservation of momentum in problem solving in mechanics. 	 To demonstrate free body diagrams using pulley and table arrangement. To demonstrate friction experiment using horizontal table. Friction using grave stone apparatus. To prepare any suitable model based on laws of motion. 	 To explain various conceptual events happening in our everyday life based on physics. To develop scientific temperament of the students . To develop logical thinking to solve numericals. To understand that friction is a necessary evil. To appreciate the contribution of Newton & Aristotle .
	Unit 4.Work ,energy and power. Chapter 6:Work, Energy and Power Work done by a constant and variable force, Kinetic energy , Work energy theorem, Power. Potential and kinetic energy, Power Potential energy of a spring,	Students will learn about types of work done and their applications. They will learn about conservation of energy. They will understand	 To demonstrate elastic collision in classroom teaching. To demonstrate energy conservation using double inclined plane. 	 To develop calculation skills. To relate the concept with horse and cart problem.

conservative and Non- conservative forces, Motion in a vertical circle, Elastic and Inelastic collisions in one and two dimensions. Unit 7. Motion of System of Particles and Rigid Body Chapter 7- System of Particles and Rotational Motion Center of mass of a two- particle system, momentum conservation and centre of mass motion, centre of mass of a uniform rod, Moment of a force, torque, angular momentum, law of conservation of angular momentum and its applications, Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions. Moment of inertia, radius of gyration, values of moments of inertia for simple geometrical objects(no derivation).	Students will learn about types of rotational motions and their applications. They will learn about conservation of angular momentum They will understand the concept of moment of inertia	To demonstrate angular momentum conservation using brush and cylinder. To demonstrate moment of inertia of rod, ring, disc, sphere. To demonstrate moment of inertia of sphere is minimum To make any suitable model based on rotational motion.	 To develop scientific temperament of the students To develop practical skills. To relate concept of moment of inertia and angular momentum with Ballet dancer, acrobat, diver and cat jump.

September (21 days)	Unit 8: Gravitation Chapter 8: Gravitation Kepler's law of planetary motion, Universal law of gravitation, acceleration due to gravity and its variation with altitude and depth, Gravitational potential energy and gravitation potential, escape velocity, orbital velocity of a satellite. Revision for Term-1 Exams.	 Students will learn about laws of gravitation and its applications. They will learn about gravitational constant, value of acceleration due to gravity below and above the surface of the earth. They will understand the concept of satellite motion and weightlessness. Term -1 Exams	 To determine acceleration due to gravity using simple pendulum To demonstrate conservation of energy using simple pendulum 	 To develop practical skills To develop logical thinking to solve numericals. To relate the concept with different cases of elevators To appreciate the contribution of Aryabhatta, Galileo, Tyco Brahe, Kepler & Newton
October (22 Days)	Unit 7: Properties of bulk matter Chapter 9: Mechanical Properties of Solids Elasticity, Stress- strain relationship, Hooke's law, Young's modulus, bulk modulus, shear modulus of rigidity(qualitative idea only), Poisson's ratio, elastic energy.	Students will learn about elasticity, Young's modulus, stress strain relationship.	To make stress- strain curve	To develop scientific temperament of the students
Nov (15 days)	Chapter 10: Mechanical Properties of Fluids Pressure due to a fluid column, Pascal's law and	They will understand the concept of Bernoulli's	To make any model based on Bernoulli's principle, Pascal's law, and other	To relate Bernouilli's and Pascal's law in

its applications (hydraulic lift and hydraulic brakes), effect of gravity on fluid pressure, Viscosity,	theorem, working of hydraulic brakes, and atomisers They will learn about	concepts of this chapter	 day to day life To develop scientific temperament of the
Stokes' law, terminal velocity, streamline and turbulent flow, critical velocity, Bernoulli's theorem and its applications. Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension ideas to drops, bubbles and capillary rise.	Venturimeter, Torricelli's experiment and Poiseuillie's equation		students
Chapter 11: Thermal properties of matter			
Heat, Temperature, thermal expansion of solids, liquids and gases, anomalous expansion of water, specific heat capacity, calorimetry, change of state – latent heat capacity. Heat transferconduction, convection and radiation, thermal conductivity, qualitative ideas of blackbody radiation, Wein's displacement law, Stefan's law.	 Students will learn about Ideal gas equation and absolute temperature They will learn about Specific heat capacity. Calorimetery, change of state, heat transfer They will understand the concept of Newton's law of cooling 	 To demonstrate Newton's law of cooling and their applications. To demonstrate experiment of calorimeter 	To develop scientific temperament of the students

Dec (19 days)	Unit 10 :Oscillations and Waves Chapter 14: Oscillations Periodic motion- time period, frequency, displacement as a function of time, periodic functions and their applications. Simple harmonic motion and its equations of motion, phase, oscillations of a loaded spring- restoring force and force constant, energy in S.H.M. Kinetic and potential energies, Simple pendulum derivation of expression for its time period.	 Students will learn about types of oscillatory motions and their applications. They will learn about velocity and acceleration in SHM. They will understand the concept of Free ,forced and resonant oscillations 	 To determine acceleration due to gravity using simple pendulum. To demonstrate conservation of energy using simple pendulum and other springs 	 To develop scientific temperament of the students To relate Free, forced and resonant oscillations in different cases. For eg. Collective march of soldiers on bridge
	Chapter 15: Waves Wave motion: Transverse and longitudinal waves, speed of travelling wave, displacement relation for a progressive wave, principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats.	 Students will learn about wave motion. They will learn about Transverse and longitudinal waves. Progressive waves. & Principle of super position They will understand the concept of, reflection of waves and beats. 	 To demonstrate standing waves in a wire using tuning forks in sonometer To demonstrate working of atomizer and uplift of an aeroplane. To demonstrate elastic behavior of different solids 	To develop scientific temperament of the students

	Unit 8: Thermodynamics			
	Chapter 12- Thermodynamics			
	Thermal equilibrium and definition of temperature zeroth law of thermodynamics, heat, work and internal energy, First law of thermodynamics, Second law of thermodynamics, gaseous state of matter, change of condition of gaseous state-isothermal, adiabatic, reversible, irreversible, and cyclic processes.	Students will learn Zeroth first and second law of thermodynamics	To collect examples of reversible and irreversible processes.	 To develop scientific temperament of the students To appreciate the contribution of Newton in Thermodynamics
January (23 Days)	Unit 9: Behaviour of perfect gases and Kinetic theory of gases			
	Chapter 13: Kinetic theory			
	Equation of state of a perfect gas, work done in compressing a gas, Kinetic theory of gases-assumptions, concept of pressure, kinetic interpretation of temperature, rms speed of gas molecules, degrees of freedom, law of equi- partition of energy and application to specific heat capacities	 Students will learn about Molecular nature of matter, behaviour of gases They will learn about law of equipartition of energy They will understand the concept of mean free path 	 To explain pressure in a gas To calculate specific heats of various substances. To solve numerical in gas laws. 	To develop scientific temperament of the students

	of gases, concept of mean free path, Avogadro's number.		
	Revision and Preboard exams		
February (23days)	D.A.V BOARD EXAM. FINAL PRACTICAL EXAM		
March (22 days)	D.A.V BOARD EXAM. FINAL PRACTICAL EXAM		

Chapter-wise weightage of marks

Unit	Chapter	Marks	
Unit-I	Physical World and Measurement		
	Chapter–2: Units and Measurements		
Unit-II	Kinematics		
	Chapter-3: Motion in a Straight Line	23	
	Chapter-4: Motion in a Plane		
Unit-III	Laws of Motion		
	Chapter–5: Laws of Motion		
Unit-IV	Work, Energy and Power		
	Chapter–6: Work, Energy and Power		
Unit-V	Motion of System of Particles and Rigid Body	17	
	Chapter-7: System of Particles and Rotational Motion	17	
Unit-VI	Gravitation		
	Chapter-8: Gravitation		
Unit-VII	Properties of Bulk Matter		
	Chapter–9: Mechanical Properties of Solids		
	Chapter–10: Mechanical Properties of Fluids		
	Chapter–11: Thermal Properties of Matter		
Unit-VIII	Thermodynamics	20	
	Chapter–12: Thermodynamics		
	Behaviour of Perfect Gases and Kinetic		
Unit-IX	Theory of Gases		
	Chapter-13: Kinetic Theory		
Unit-X	Oscillations and Waves		
	Chapter-14: Oscillations	10	
	Chapter-15: Waves		
	Total	70	

Practical details

Type of Question(s)	Mark(s)	Total Marks
Experiment 1	80	
Experiment 2	80	
Journal	05	30
One activity from any section	03	
Viva	06	

Syllabus for Exams

S.No.	Name of the Exam	Chapter No.
1	Unit Test 1	2,3 & 4
2	Term 1	2,3,4,5,9
3	Pre- Board Exams	Full Portion (Vol-1 & 2)
4	Final DAV Board Exams	Full Portion (Vol-1 & 2)

Syllabus (2023-2024) Subject: (Biology) Std: XI

Month & Days available for teaching	Unit / lesson / Contents	Learning outcomes	Assignments & Activities	Values/ Skills
June –19 days	UNIT I DIVERSITY IN THE LIVING WORLD: Lesson 1 The living world	Students know what is living? biodiversity, taxonomy and systematic, binomial nomenclature	Tables Flowcharts	Taxonomical hierarchy and classification
	Lesson 2 Biological classification	Students know five kingdom classification, salient features and classification of major groups	Diagrams Mnemonics	
	Lesson 3 Plant Kingdom	They understand how classification is related to evolution.	To study diff. plant specimens	Organization skill.
	Lesson 4 Animal Kingdom Unit III Cell:Structure and	They study the features and uses of diff. plant divisions. Children study vast diversity and phylogeny of diff. animal phyla.	To study diff. animal Diagrams with labelling specimens	Coexistence in nature increasing
	Functions Lesson5 Cell: The Unit of Life	They understand the cell theory, str. of typical Prokaryotic and Eukaryotic cell.	Specimens	Functioning of a biological system complexity

July – 24 days	Lesson 17 Breathing and exchange of gases Lesson 18 Body fluids and	Students understand structure and working of human respiratory system and occupation diseases Students understand the structure ,function of heart,blood	Diagram Worksheet	Significance of Pranayama Bad effects of smoking and pollution
	circulation	grouping,coagulationECG, disorders of circulatory system.	Diagram Worksheet	Need for Physical exercise and healthy lifestyle
	Unit Test -1			
August – 22 Days	Lesson 19 Excretory products and their elimination	Students understand osmo regulation and regulation of kidney function dialysis and kidney transplant.	Diagram Worksheet	Importance of body fluids and oral rehydration.
	Lesson – 20 Locomotion and movement	Students understand skeletal systems and it's functions, joints, disorders of systems.	Identifying bones and joints.	Importance of ions in muscle contraction.

	Lesson – 21 Neural control	Students understand human	Diagrams and	Understanding of
	and coordination	nervous system, generation and conduction of nerve impulses.	Worksheet.	functions of neurons, sense organs, sensory perception.
September – 21 days	Lesson – 22 Chemical control and coordination.	Students understand human endocrine system, hormones – their hypo and hyper activity and related disorders.	Diagrams and Worksheet.	Role of hormones as messenger and regulators.
	Term -1 Exam			
October 22 Days	Morphology of flowering plants.	Students learn morphological characters of plants and learn to describe plant families.	To study root stem leaf modifications and different types of inflorescence.	Awareness of need for modification in plants
	Anatomy of Flowering Plants	They become aware of various types of tissues, tissue systems, their functions in plants.	To study diff. plant tissues T.S. dicot and monocot stem, root.	Observation skill
	Structural organisation in Animals	The students understand various tissues in animals and also the increasing complexity.	Diagrams and worksheets To study diff. animal tissues - from	Observation skill
	Plant Physiology	Get idea of basic principles of Photosynthesis	permanent slides.	
		They understand respiration and ATP synthesis in plants.	Diagrams, worksheets	
November (15 days)	Photosynthesis	They know the role of phytohormones in Plant growth and development	Diagrams, cycles.	Love for plants, producers of the ecosystems and
	Respiration	They will understand how taxonomy helps in explaining the diversities, identification of species.	Graphs, Worksheet	pollution checkers.
	Plant Growth and Development		To study taxonomic	

Biomolecules	Students understand chemical constituents of living cells, enzymes, types properties and their actions.	Tables , Graphical representations.	Awareness about variations of cells, chemical reaction inside a cell and enzyme activity.
Cell cycle and cell division	Students comprehend cell cycle , mitosis , meiosis and their significance.	Study of mitosis from permanent slides.	Cell multiplication , inheritance and variation.

BIOLOGY (THEORY) STD XI TIME-3 HRS.

ONE PAPER MARKS: 70

UNIT WISE DISTRIBUTION OF MARKS

1. DIVERSITY IN LIVING WORLD	15	5
2. STRUCTURAL ORGANISATION IN ANIMALS AND PLANTS	10	
3. CELL; STRUCTURE AND FUNCTION	15	;
4. PLANT PHYSIOLOGY	12	<u>)</u>
5. HUMAN PHYSIOLOGY	18	3
TOTAL	70)

PORTION FOR UNIT TEST: CHAPTERS 1, 2,3,4

PORTION FOR TERM 1 : CHAPTERS 1, 2,3,4, 8, 17,18,19,20

PORTION FOR UNIT TEST 2: CHPATERS 5,6,7,21,22

PORTION FOR PRELIM AND BOARD EXAM: CHAPTERS: FULL SYLLABUS



<u>DAV PUBLIC SCHOOL, AUNDH, PUNE</u> <u>GEOGRAPHY SYLLABUS FOR STD XI (2023- 2024)</u>

MONTH AND NO. OF WORKING DAYS	UNIT	CONTENT	LEARNING OUTCOMES	ASSIGNMEN T/ ACTIVITY	VALUE/ SKILL
APRIL-13 DAYS	PART-A <u>Chapter-1</u> Geography as a discipline. PART- B Chapter: 1	 Geography as an integrating discipline. Importance of Physical geography. Space relations and India's place 	 Understanding the relationship between physical environment and socio/cultural features. Arial differentiation 	Prepare a flow chart to explain the various branches of geography.	The study of geography the understanding of ed balance.
	India location.	in the world.	 General understanding of the Meridian Longitudinal extent and its implications on the Indian people. 	● Map work	Map Skill.Unity in Diversity.

	Part A				
JUNE-19 DAYS	Chapter:2 The origin and evolution of the Earth. Chapter:3 Interior of the Earth. Part -B Chapter:2 Structure and Physiography PRACTICAL CHAPTER-1	Modern theories, Our solar system and Evolution of the Earth Interior of the Earth Earthquakes and volcanoes: causes, types and effects Structure and relief Physiographic divisions	To understand the various hypothesis related to the evolution of the earth. To study the impact and influences of exogenic and endogenic processes. • Understanding the geological structure. • Features and importance of every Physical divisions.	Diagram of Big bang theory. Diagrams Map Work – India major Physical divisions.	Geography is the study of earth science Human life is influenced by the Physiography of the region. Map Skill. Earth as our home.
JULY-24 DAYS	Part A Chapter- 4 Distribution of Oceans and Continents	Continental drift theory and Plate Tectonic theory.	 Understanding the various landforms under water. Rotation, Revolution and other Physiographic influence on the shifting of Continents. 	Map work	Map Skill Distribution of Continents - puzzle.

Chapter: 6 Landforms Geomorphic processes:	•	Weathering; mass wasting; erosion and deposition; soil-formation	 Geomorphic processes Formation of soil Landform features formed by natural agents 	Soil profile (diagram)	Significance of soil as a Resource
Part B Chapter:3 Drainage System PRACTICAL	•	Drainage system Concept of water shed The Himalayan and the Peninsular rivers.	To understand and differentiate the various geological changes made by running water.	Map work- Major rivers of India.	 Water is the lifeline of our economy. Availability of water led to the establishment of civilizations.
CHAPTER-2 & 3					
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AUGUST-23 DAYS	Part B Chapter:4 Climate.	 Weather and Climate. Spatial and Temporal distribution. Pressure, Wind and Rainfall. 	 Understanding the mechanism of monsoon. Understanding the characteristics of Indian seasons 	 Map work – Indian Annual Rainfall. Mind map 	 Geography is a systema study of all natural processes. Map skill
	Part A Chapter:8 Composition and Structure of Atmosphere.	 Seasons of India Composition and structure of Atmosphere. 	 Atmosphere is the integral part of the earth. Each layer of atmosphere has unique 	Diagram – Structure of Atmosphere.	Nature's distribution of basic elements of earth for the sustenance of life.
	Chapter: 9 Solar Radiation	 Solar radiation Heating and cooling of atmosphere Heat budget of the Earth 	functions. The variation in temperature causes pressure difference on the earth surface. This pressure difference leads to various wind patterns.	Diagram- Heat budget of the earth.	 Sun is the main source of energy' – reinforced Critical thinking.
	PRACTICAL CHAPTER-4				

SE	PTEMBER-
21	DAYS

REVISION AND MID TERM EXAM

OCTOBER-22 DAYS	Part A Chapter:10 Atmospheric circulation and weather Systems	 Pressure belts; Winds planetary, seasonal and local; air masses and fronts; tropical and extra tropical cyclones 	Wind redistributes heat and moisture across thereby maintaining a constant temperature of the planet as a whole.	Diagram- wind belts of the world with pressure variations.	Nature is systematic and rhythmic. Concept of discipline and consequences of indiscipline act in nature.
	Chapter: 11 Water in the Atmosphere.	 Various forms of water in the atmosphere Types of rainfall and its distribution 	 To understand the exchange of water between the various realms of earth. The process of Evaporation, Condensation and Precipitation and its functions. 	Assignment sheet	 Concept of discipline and consequences of indiscipline act in nature. Sustenance of life not possible without water.
	Part B <u>Chapter: 5</u> Natural Vegetation	 Forest types and distribution wild life; conservation biosphere reserves 	 To understand the basic reasons for a variety of vegetation in our country. Interdependen cy of natural 	Map work- major biosphere reserve.	Ecological balance is important for sustenance of life

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			vegetation and wild life on man and visa- versa			
	PRACTICAL CHAPTER-5					
NOVEMBER- 15 DAYS	Part A Chapter- 14 Movements of ocean water. PRACTICAL CHAPTER-6	Waves, Tides and Currents	Types of tides and ocean currents	Map work- Major ocean currents of the world	Map Skill	
DECEMBER- 19 DAYS	REVISION FOR PREBOARDS AND INTERNAL ASSESSMENT ACTIVITIES					
JANUARY 2024- 23 DAYS	REVISION AND PREBOARD					
FEBUARY- 23 DAYS		FINAL EXAM	IINATION			

Syllabus (2023-2024)
Subject: (Informatics Practices) (IP) - PYTHON
Std: XI

Month & days available for teaching	Unit / Content	Learning outcome	Assignment/Activities	Values/Skills
April 14 Days	Unit I Lesson1 – Introduction to Computer System - Computer Organization - Input and Output devices - CPU and its architecture - The Main Memory - Cache Memory - Storage Devices - The System Bus - Computer System and Data - Software (System Software, Application Software, Proprietary and OSS)	Students will able to understand the revolutionized the world around us. The modern age of using technologies like smartphone, photos editing, music, etc.	Finding the Evolution of computer on the scale of 500 BC to 5 th generation computer.	Using technology in right way and maintaining the hardware devices.
	Unit II Lesson 2 – Getting started with Python - Introduction - Python – Pluses and Minuses - Working in Python 1. Working in Default Python Distribution 2. Writing and Compiling Python Code - Understanding First Program/Script	Students will be learning to program using a Python	Open-source Python Shell	Introducing Programming Language
June 19 Days	Lesson 3 – Python Fundamentals -Introduction -Python character Set - Tokens - Barebones of Python Program - Variables and assignments - Simple Input and Output 1. Reading numbers 2. Output Through print Statement	Students will be learning basic fundamentals of Python IDE Students will be aware of writing efficient code.	Check Point 3.2 Literals in python Escape sequence(\) Some built-in Literals Check Point 3.1 Built-in core data types Data types and variables Int datatype Boolean datatype	Developing logic

July 24 Days UNIT TEST-1	Lesson 4 - Data Handling - Introduction - Data Types * Numbers * Strings * Lists and Tuples * Dictionary - Mutable and Immutable Types - Operators * Arithmetic * Relational * Identity * Logical * Bitwise * Operator Precedence	They will be learning about Python tokens such as keywords, identifiers, literals, operators and separators, along with data expressions. Students will be learning about how to do computation in Python.	Check Point 4.2 Complex numbers Floating point numbers Mathematical deviations programs Correlation Coefficient Programs	Developing logic and Introducing critical thinking
August 23 Days	- Expression Lesson 5 - Conditional and Iterative Statements -Introduction - Types of Statements in Python - Statement Flow Control - Program Logic Development Tools - The if Statement of Python - Repetition of Tasks - The range() function - Iteration/Looping Statements * The while loop * Loop else Statement * Jump Statement- break and continue * Nested Loops Lesson 6 - List Manipulation - Introduction - Creating and Accessing Lists	The Students will be discussing various program flow control statements viz. selection statement, iteration statements and jump statements. Students will be learning programming constructs briefly and will design, code the small programs independently	Programs on loops and finding output. All text book examples Indexing and slicing of String. Real life programs	Learn to make decision
September 21 Days TERM -1	Lesson 6 – List Manipulation (contd) - List Operations - Working with Lists - List Functions and Methods Lesson 7 – Dictionaries -Introduction - Dictionary Key:Value Pairs	Students will learn the advance concepts of Arrays	Storing data in less memory programs Accessing members of list related programs	Developing critical thinking

October 22 Days	Lesson 7 – Dictionaries (contd.) - Working with Dictionaries - Dictionary Functions and Methods	Students will how data- items are organized in Python dictionary.	Storing values in Pairs and accessing it through coding	Programming Logic will be developed.
	Lesson 8 - Databases Concepts - Purpose of DBMs - Relational Database Model - Brief History of MySQL - MYSOL database System -Starting MySql - MySQL and SQL	Students will learn how use the existence code. The basic feature of OOPs	Re-usability of code through modules. Module coding	Reusability of code in different programs
November 15 days	Lesson 9 – Simple Queries in SQL - SQL Elements - SQL Commands - Sample Databases	Students will learn Pandas Library, the basic data structure. Students will learn the basic purpose of DBMS in real life and world.	Importing library through Pandas Storing real time data in database. Designing and storing data.	Skills like how importance of data
December 19 Days	Lesson 9 – Simple Queries in SQL(contd.) - Making Simple Queries - Creating table - Inserting into Tables - Select Queries - Accessing Database - The SELECT command - Reordering columns - Distinct keyword - Simple calculations - Handling Null values -Modifying Data using UPDATE command -Deleting Data using DELETE command -DDL commands -ALTER and DROP	Students will be learning MySql functions. They will learn how the functions have been categorized into various categories, such as String, Mathematical, date and time functions. The students will be creating, modifying a database's structure, changing security settings for system, permitting users for working on databases or tables, querying database, Inserting /Modifying /Deleting the database contents.	Queries on one or more tables. Search values queries. Bifurcation different commands. Making use of built-in examples.	Managing different data on computer
January 23 Days PREBOARD	Lesson 10 – Emerging Trends -Al -Robotics -Big Data	Students will understand the rapid growth technology and impact of these on our lives.	Check point 10.1 Various definitions. What is big data? Eg of loT and WoT	Updating to new trends and technologies.

	-Internet of Things (IoT) -Cloud Computing -Grid Computing -Block chain Technology	This chapter will teach recent trends in computing and information technology.	
February 23 Days	Final Theory and Practical Examination for std 11 th	REVISION	
March 22 Days	Final Theory and Practical Examination for std 11 th	REVISION	

Board Marking scheme for THEORY - Marks (70) Time: 3 hrs

Topics / Units	Marks
Unit-1 (Le1)	10
Unit-2 (Le2, Le3, Le4, Le5, Le6, Le7)	25
Unit-3 (Le10, Le11)	30
Unit-4 (Le12)	5
Total	70

Practical - Marks: 30 (Term - 1 / Preboards/Finals) Time : 3 hrs
Marking scheme for Practical

Topics / Units	Marks
Programs using Python (ifelse Case Study)	10
Programs using Python (for-loop and while-loop)	5
SQL Create Table and Insert values	5
SQL Queries on tables	10
Total	30

Sub	ject to	change	*

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SUBJECT: MEDIA STUDIES STD XI

Month Working Days	Unit/Content	Learning Outcomes	Assignments or Activities	Values/Skills
April 16 days	Unit 1, L.1 Introduction to Mass Media Practical: 1.Introduction to photography 2. GD on the recent topics in media. L.2 Aspects of Mass communication Practical: 1. Role play in given situations.	To understand the concept of mass media of communication To understand the various kinds of media To understand the process & stages of Communication.	Portfolio preparation is progressive. The portfolio is a compilation of the practical component of the syllabus. 1. Using mobile or digital camera, click 10 photographs of the theme provided. 2. Movie review	Students realize the value of media in motivating the masses. The most effective media for a given topic. To create social consciousness through effective chosen media.
June 19 days	L.3 Barriers to Communication Practical: 1.Students enact situation depicting barriers. 2.Watch episodes of Mind your language depicting barriers in communication. Employability skills Unit 1: Communication Skills Unit 2: Evolution of Media L.1 Understanding Cinema I	. To understand the barriers which obstruct proper communication among people. To understand how to overcome these barriers. To become better communicators To understand the different communication medium and their content	1.Developing dialogues in communication in various stages. 2.Students enact situations from films & plays depicting various barriers in communication. 3.Collect information on cultural nuances in various countries of the world.	To understand the difference between phatic personal & intimate communication. Learn the skill of evaluating a film or television programme in the right context. Skill of communicating properly according to the medium of communication. Value of being correct in communicating with others

July 24 days 1 UNIT TEST	L.2 Understanding of cinema II L.3 Understanding Of TV Practical: 1.Watch the sequence of the movie in class and discuss on the parameters given.	To understand how cinema comprise all other art forms To understand how cinema is a complex narrative To understand the difference between cinema and theatre	1.Make a chart with pictures of various elements which highlight the specificity of Television as a medium of infotainement. 2. Mention your favourite programme and give reasons as to why you like it. If the producer is to be given suggestions for its improvements, what would you like to suggest?	Understanding of cinema and its content To learn and incorporate the other art form in cinema. Understanding the concept and making of the content is different for all the medium. Value the history of Indian cinema and its pioneer.
	2.Watch few episode of different genres of television programs.	To understand the type of content shown on television To understand different types of television program format.		
August 23 days	L.4 Print media and its types L.5 Radio genres and its types L.6 Internet Practical 1.Bring newspaper in class and compare different format of the newspaper. 2.Listen to different radio programs Employability Skills Unit 2 Self management skills	To understand the value of non-fiction & its uses. To realize how cinema began in India. To understand how the Internet has grown and its uses.	1. Collect info. on media jargon.eg. tabloid, broadsheet. 2. Write an article for the newspaper on role of mass media in the freedom struggle.	Value of pioneering producers of yesteryear & their perseverance & expertise. Learning to appreciate the efforts of great directors such as DG Phalke, Satyajit Ray etc.

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September 21 days	Unit3. Understanding Media L.1 Media Literacy i. Introduction to mass media ii. Viewing of prescribed films iii. Audience theories. iv. Media ownership. v. Media Representation vi. Media and violence Practical: Introduction to video editing software (windows movie maker/ video editor)	Students will be able to critically evaluate media messages. Critical evaluation techniques of understanding media messages. Students learn the principles behind advertising, what motivates the makers of adverts to decide on the medium.	1.Students analyze a programme after a serious viewing. 2.Students find out all about the producer, director and target audience of the programme 3. Critically evaluating various adverts.	Students learn not to follow the media blindly. Learn to make an effective advert. Learn to organize a film shot. Using Editing software easily.
October 22 days	L.2.Aspects of Film Language i.Mise en scene ii.Parameters of film analysis a)fiction films b)non-fiction films L3.Content Analysis of TV programs i. Cinema & TV ii. Soap Opera iii. Media Culture iv. Educational TV v. Reality TV	How the ground plan and planning a shot affects the film. How to review films Students learn how to make soft films and editing techniques Understand all about the basis of various TV programs made.	1.Notice each shot of a chosen film such as Attenborough's Gandhi and understand the concept of, 'mise en scene'. 2.Watch a soap opera and review it. 3.Conduct a survey on favourite shows watched in the neighbourhood and write a report in the portfolio.	Learn to make an interesting soap operas. Learn to analyze the news printed in the media. How to make a successful Radio program on Radio or TV.
22 days	L.4. Content Analysis of Newspapers & Periodicals. L5.Content Analysis of Radio ProgramsL6. Features of Internet Practical: Video Camera Handling and practice.	Why news papers highlight certain news. Understand the importance of radio in reachingbthe people.	4.Learning all about appearing on TV	
November 15 days	Unit 4 Pre-production skills L1.Story as a self content world L2. Story as a subjective experience	To understand the concept of fiction writing.	1.Read a short story & review it. 2.Select a novel or movie & review it in terms of the theme, plot, script,	Skill of appreciation & reviewing quality fiction. Appreciating the technique of writing & style in

	L3. Content of story Practical: Working on group project	To comprehend the difference between theme, plot, story, script, climax, anti-climax, suspense, irony, humour, satire. To know and understand the concepts of writing short stories & novels.	characterization etc.	Classics.
	L.4 Techniques of storytelling L.5 Genres of story	To know and understand the concepts of writing short stories & novels.	Collect info. about the style of writing of a specific writer	Skill in writing scripts & short stories. To develop understanding about different genres
December 19 days	Employability skills Unit 3: ICT Skills Unit 4: Entrepreneur Skills Unit 5: Green skills	To understand different techniques in which the story can be narrated.		and style of stories.
January 23 days	Revision for final exam			
February 23 days	Revision for final exam			
March 22 days	Revision for final exam			

• Exam pattern

Theory: 60 Marks

Practical: 40 Marks

• Theory: 10 marks + 50 marks

10 marks : Employability Skills

50 marks : Subject Skills

• Practical Includes:

10 marks: Portfolio file (Activities conducted in the class over the session)

15 marks: Hands on knowledge of softwares (video editing software)

10 marks: Project (Group Project)

05 marks: Viva

D. A. V. Public School, Aundh, Pune Syllabus 2023- 2024

Sub: - PHY - EDU Std: - XI

Month / Working days	Unit / Content	Learning outcome	Values &Skills
April	Warm up Cricket (Theory), Basketball	Team Spirit Health, Discipline To understand the game	Values - To develop agility, speed, body balance, flexibility, endurance Skills-Batting and balling techniques, Basketballdribbling, dodging, throwing passing techniques, rules of the games
June	Warm up Theory (Football) Dodgeball, Football	Imagination Health, Discipline To understand the game	Values -Physical Fitness, Hand and eye Co-ordination Skills-Throwing and dodging, techniques, dribbling, long kicks, long passes.
July	Warm up Badminton, Table Tennis	Thinking Health, Discipline To understand the game	Values - Co-ordination, Concentration, Stamina Skills- Grip, stance, stroke, service smash
August	Warm up Football, Basketball	Self Confidence Health, Discipline To understand the game	Values - To develop mentally and physically fit Skills-Kicks ,passes, dribbling, trapping Throwing techniques,
September	Warm up Basketball	Understanding Health, Discipline To understand the game	Values - To develop agility, speed, body balance flexibility, endurance Skills- Passes, dribbling, pivot
October	Warm up Throw Ball, Ring Tennis	Co-Ordination Health, Discipline To understand the game	Values - Team spirit, Sportsman Spirit Skills- Grip, stance, ThrowingTechniques, Catching techniques

November	Warm up Volleyball, Throw ball	Co-Ordination Health, Discipline To understand the game	Values - To develop muscular strength, endurance, stamina Skills-Service techniques, smash techniques, throwing, catching techniques
December	Warm up Kho-kho Football	Grasping Health, Discipline To understand the game	Values - To become a good citizen through the sports Skills-Stance, kho techniques, penalty kick, off side, rule of the game
January	Warm up Basketball	Co-Ordination, Physical Fitness Health, Discipline To understand the game	Values - To develop Hand and Eye Co-ordination, Team sprit stamina. Skills - Dribbling, Chest passing, Lay-up shot
February	Warm up Football, Basketball	Physical Fitness Health, Discipline To understand the game	Values - To develop Physically & mentally Fit, Team sprit Skills- Heading and throw-in techniques, goal keeping, Dribbling, passing, rules of the game

D.A.V. PUBLIC SCHOOL, PUNE

STD XI

Su	Subject: ACCOUNTANCY (2023-24)						
	Learning Outcome	Assignment or Activities	Values / Skills				

Month & Days Available	Unit /Name of	Learning Outcome	Assignment or Activities	Values / Skills
for Teaching	Lesson/Content			
April 14 days/ June19 days	I Introduction to Accounting: a. Accounting- meaning, objectives, accounting as a source of information, Internal & External users of Accounting Information. b. Qualities and characteristics of accounting information. c. Basic accounting terms.	Students learn basic accounting terminology. Students can identify and use accounting terms.	Learn the definitions of various terms. Solve worksheet 1.	Develop skill of identifying various accounting terms
	II Theory Base of Accounting: a. Accounting principles- meaning & nature. b. Accounting concepts c. Systems of accounting d. Basis of accounting - Cash & Accrual e. Accounting Standards	 Students learn & understand concept of accounting standards, concepts and principles. Students understand the process of accounting. To understand the meaning and characteristics of GST To understand the objectives of GST 	Solve worksheet 2	Develop Accounting skills Develop skill of doing simple calculations of GST

	(GST)				
1 7	IV Recording of Business Transactions I & II: a. Source documents b. Accounting Equation c. Vouchers – types and formats d. Rules of Debit & Credit – American & English approach. e. Books of Original Entry f. The Ledger g. Posting from Journal. h. Special Purpose Book, Cash Book, Sales Book, Purchase Book, etc.	2.	Students learn & understand rules of debit & credit and to apply them while preparing accounts. To prepare various books of accounting.	Solve textbook exercise.	Developing skills of recording business transactions
•	V Trial Balance & Rectification of Errors: a. Trial balance- meaning, objectives & preparation. b. Errors- types of errors Detection & rectification of errors. Revision	1.	To learn and understand how to prepare a trial balance, to locate errors and rectify them. To know and understand reasons for non-agreement of TB and rectify them.	Solve TB exercise.	Develop skills of locating errors & rectifying them while preparing Trial Balance

10 days	IV Bank Reconciliation Statement: a. Meaning & need b. Preparation of a BRS	1.	Students understand the meaning of BRS. And learn to prepare a BRS.	Solve TB exercise.	Develop skills of reconciling Bank Statement to Cash Book
September11 days/October 10 days	V Depreciation, Provision & Reserves: a. Depreciation – meaning and need for charging depreciation. b. Factors affecting depreciation. c. Disposal of assets. d. Provisions & reserves – meaning and importance, difference between provisions and reserves, types of reserves.		Students understand and learn the need for charging depreciation. Students successfully use depreciation to allocate funds for replacements of assets.	Solve worksheet 3 Solve textbook exercise.	Develop skills of charging depreciation on Assets & Creating reserves and Provisions

October12days/November 15 days	VIII Financial Accounting: a. Financial statements — meaning & uses. b. Distinction between Capital and Revenue expenditure c. Trading & Profit &Loss Account. d. Balance Sheet — need, grouping & marshalling of assets & liabilities, vertical presentation	 To identify capital and revenue expenditure & income. To prepare and tally final accounts of different companies. 	1. Solve TB exercise. 2. Project: Identify a company, prepare a detailed information report on the same, write a brief summary of accounting cycle. (Project to be done in Christmas break and to be submitted in 1st week of January)	Develop skills of preparing Final Accounts Develop skills of preparing Home Budget
December 19 days	of financial statements e. Adjustment in preparing financial statement f. Preparation of Profit & loss account and balance sheet of sole proprietorship. X. Accounting from Incomplete Records	To learn & understand the meaning of Single Entry System.	Solve TB exercise	Develop skill of Accounting treatment from incomplete records

PORTION

UNIT TEST : 1) Introduction to Accounting 2) Theory Base of Accounting 3) Accounting Equation

TERM 1 : UNIT TEST PORTION + 1) Recording of Transactions I & II 2) Trial Balance

PREBOARD : TERM 1 PORTION + 1) Depreciation, Provisions & Reserves 2) Rectification of Errors

3) Financial Statements of Sole Proprietorship 5) Bank Reconciliation Statement **FINAL EXAM**: PREBOARD PORTION + Accounting from Incomplete Records

Unit	Topic	Marks
Part A	Financial Accounting 1	
1	Theoretical Framework	12
2	Accounting Process	44

Part B	Financial Accounting 2	
3	Financial Statements of Sole Proprietorship from Complete and Incomplete Records	24
Part C	Project Work	20

WEIGHTAGE AS PER CBSE GUIDELINES

UNIT TEST1: PAPER PATTERN

TERM 1: PAPER PATTERN

PRELIM 1 AND FINAL PAPER PATTERN AS PER DAV BOARD

$1m \times 20 = 20m$ $3m \times 6 = 18m$ $4m \times 3 = 12m$ $6m \times 5 = 30m$	There will be internal choice in 1m, 3m, 4m, & 6m
34 Ques = 80m	

Syllabus (2022-2023) Subject: (Chemistry) Std: XI

Month and days available for teaching	Unit / Content	Learning outcome	Assignment/ Activities	Human Values/Skills
APRIL -14 days	Unit 1- Some basic concepts of chemistry	To understand that Chemistry is the science of molecules and their transformations and the ways by which we can quantify and qualify them.	In text questions, exercises questions and worksheet questions	The student appreciates the fact that each and everything in this world is made up of molecules or atoms and is able to think in the deeper aspects of life.
JUNE –19 days	Unit 2 -Structure of atom	1. To understand the internal structure of atom using various experimental results. 2. Understand the various models of atomic structure. 3. Define an atomic orbital in terms of quantum numbers and writing the electronic configuration of an atom. 3. Define an atomic orbital in terms of quantum numbers and writing the electronic configuration of an atom.	Write the electronic configurations of elements using s, p, d and f symbols, In text Qs., exercises questions In text Qs., exercises questions	To understand and appreciate that the rich diversity of chemical behaviour of different elements The rich diversity of chemical behaviour of different elements can be traced to the differences in the internal structure of atoms of these elements
JULY - 24 days	Unit- 2 Structure of atom continued			
	Unit 3 -Classification in elements and periodicity in properties.	The student understands about the classification of elements and the convenience of doing it for easy study of all the elements. He is able to apply the knowledge to relate to the properties	To draw periodic table in a neat manner, Intext questions, exercises questions	The student is amazed about the fact that how nicely the different elements have similar properties based on their outer electronic configuration.

AUGUST -22				
days	Unit 4 -Chemical bonding and molecular structure	1. To understand about the different types of bondings in atoms to form molecules 2. To understand the shape of molecules in terms VSEPR theory. 3. To understand the concept of hybridization and molecular orbital theory.	In text questions, exercises questions and worksheet questions	The student is able to relate the bonding to the daily life relationships and appreciates the wonder of nature at the atomic level. The students are able to identify different types of chemical bonding.
AUGUST –22 days	Unit 08 Redox reactions	To understand the concept of oxidation and reduction and how to calculate oxidation no. 2. The student understands the basic concept and balancing of oxidation and reduction in terms of electron.	Intext questions, exercises and worksheet	Student is able to relate the electrochemical cell as a redox system and is able to appreciate the reactions taking place in cells
SEPTEMBER -21 days	Unit 6 -Thermodynamics	 To explain and understand the terms system, surroundings, open, close and isolated systems, internal energy, work, heat and state first law of thermodynamics. Explain state functions U, H, correlate ΔU and ΔHand define State and apply Hess s law of constant heat summation. 	In text questions, exercises questions	To understand the applications of first law of thermodynamics. The students are able to understand the condition for the spontaneity of a reaction. The student is able to appreciate about the endothermic and exothermic compounds and also the factors

				leading to the special property.
OCTOBER - 22 DAYS	Unit -6 Thermodynamics continued	. Understand the difference between intensive and extensive properties, spontaneous and nonspontaneous processes, entropy as a state function and its relation with the free energy change of a system. establish a relationship between free energy change and equilibrium constant.	Work sheet	Student will be able to predict the feasibility of a chemical reaction in terms of free energy change.
OCTOBER - 22 DAYS	Unit 7 -Equilibrium	1. To understand the concept of equilibrium in chemical and physical processes, law of equilibrium, homogeneous and heterogeneous equilibrium. 2. To understand about the applications of equilibrium constants, relationship between equilibrium constant, reaction quotient and Gibbs energy. Understanding about the factors affecting equilibrium. To understand about the ionic equilibrium in solutions, acids, bases and salts and their ionization, buffer solutions, solubility equilibrium of sparingly soluble salts.	In text questions, exercises questions and worksheet questions Define Bronsted acid, base	The student understand and appreciate about the dynamic nature of equilibrium in chemical and physical processes and to explain the law of equilibrium. The student is able to understand and appreciate about the equilibrium of acids, bases and salts in terms of its ions. Student is able to appreciate the difference between acids and bases

NOVEMBER -15 days	Unit 12 -Organic chemistry – some basic principles and techniques.	The student understands more about the carbon compounds, understands the nomenclature, various types of reactions and also the purification techniques.	In text questions, exercises questions and worksheet questions	The student is able to appreciate the versatility of organic compounds.
DECEMBER -19 days	Unit 13- Hydrocarbons	1.Student understands the qualitative analysis of different elements in organic compounds 2. Student understands the classification of alkanes, alkenes and alkynes and also the aromatic hydrocarbons. 3.Student understands and applies the IUPAC nomenclature knows, understands about the reactions, mechanisms and properties.	In text questions, exercises questions and worksheet questions	Student appreciates the classifications and able to relate to the daily life used hydrocarbons. The student understands appreciates and applies the IUPAC nomenclature knows, understands about the reactions, mechanisms and properties
JANUARY- 23 days	REVISION / PREBOARD			

FEBRUARY- 23 Days			
	FINAL EXAM		

Portion

Exam	portion
Unit I	Chap-1,2
Half Yearly Exam	Chap-1 to 4,Chap-8
Pre board Exam	Full Syllabus

Evaluation scheme for Practical Exam Time: 3 hours Marks: 30

1. Volumetric analysis = 08marks
2. Salt analysis = 08 marks
3. Content based experiments = 06marks
4. Class record and Viva = 08marks = 08 marks

Total = 30 marks

D.A.V. PUBLIC SCHOOL PUNE SUBJECT: ENGLISH (2023-24)

STD: XI

MONTH & NO OF DAYS	UNIT/CONTENT	LEARNING OUTCOMES	ASSIGNMENTS OR ACTIVITIES	VALUES/SKILLS
	Hornbill – 1.The Portrait of a Lady	Understanding Khushwant Singh's relationship with his grandmother.	Collect information about Khushwant Singh and his other works.	The importance of family and relationships.
APRIL 14 DAYS	1. A Photograph(poem)	Poet's feelings for her mother.	 How does the poet describe her feelings for her mother? Write a short paragraph on fulfilling wishes. 	Using grammatically correct sentences in conversation
	Conversation Skills Group Discussion: importance of language Listening comprehension	Clear, logical thinking, assessing problems, analyzing.	Group presentation on given topics.	sentences in conversation

	Snapshots- 1. The Summer of the Beautiful White Horse Writing Skills: Poster	 Difference between ethics & obligations. Draft posters 	Character sketches • Draft poster on child labour	Integrity and commitment. To enhance creative writing skills
JUNE 19 DAYS	HORNBILL 2. The Laburnum Top Grammar Tenses, Error Correction Conversation Skills Group Discussion:GST	 Appreciation of various aspects of nature. Using grammatically correct English in conversation & writing. Presence of mind. Thinking on one's feet, analyzing, presenting ideas 	 Writing short poems on nature. Editing exercises GD's on given topics. 	 To appreciate various aspects of nature. Using grammatically correct English in conversation & writing

JULY26 22DAYS	Writing Skills: NOTE MAKING Hornbill –	 Learn how to make notes with the help of bullets, heading and subheading 	Writing summary	Make notes of paragraph given
	2.We're not afraid to die if we can all be together	Importance of togetherness & unity in a family	Collect information about sea voyages in the Indian Ocean, a yacht, & sailing jargon.	 Family unity, co-operation. Futility of funerary treasure & rituals.
	3.Discovering Tut: The Saga Continues	Learning the secrets of Tutankhamen's tomb	Collect pictures & information about other pyramids and tombs.	
	<u>I UNIT TEST</u>			

AUGUST 23 DAYS	Snapshots – 2.The Address Writing Skills DEBATE. Grammar Reordering of sentences Advertisements- for sale/purchase/to let/situation vacant/situation wanted	 Effect of human greed & lack of compassion Practice sessions Using grammatically correct English in conversation & writing. Students realize the importance of reading and analyzing long text. Using grammatically correct English in conversation & writing 	 Write a paragraph on the effects of the WWII Group discussion and guided speeches Worksheet Collection of advertisements from newspaper How to make appropriate advertisements 	 Greed & covetousness make one heartless Importance of sharing happiness Interpersonal relations Worksheet .
SEPTEMBER 21 DAYS	Writing Skills: SPEECH Assessment of listening and speaking skill REVISION TERMINAL EXAMS	Using grammatically correct English in conversation & writing.	• Speech on G20	 worksheet Enhancement of speaking skills

	Hornbill – 3 The Voice of the Rain Snapshots – 4. Mother's Day(Play)	 Appreciation of various aspects of nature Feminism and feminist writing. 	 Writing short poems on nature Collect other feminist pieces of writing Problems faced by women especially mothers or housewives 	 To appreciate various aspects of nature Value of understanding to overcome the generation gap.
OCTOBER 22 DAYS	4.Childhood(poem	Realization of adulthood	Write a paragraph on aspects of childhood	Realization of the hypocritical world
22 DAYS	Grammar: CLAUSES	Using grammatically correct English in conversation & writing	Transformation of exercise	• worksheet

	Hornbill – 5.Father to Son (Poem) Writing Skills: Advertisement	 Presence of mind. Thinking on one's feet, analyzing, presenting ideas. Able to write advertisements Group Discussion Imagine what the son feels about the father & vice versa & write two paragraphs. Read the newspaper and get cuttings of various advertisements
	Conversation Skills Hazards of Selfie	 Generation gap & its effect Art of speaking
		Presence of mind. Thinking on one's feet, analyzing, presenting ideas.
	Snapshots 8. The Tale of Melon City(Poem) Snapshots – 7. Birth	 Hum our, dramatic irony, satire The problems of childbirth & importance of life Find other humorous poems Andrew Manson's feelings of elation and the reasons The Tale of Melon City ,Vikram Seth lampoons' the eccentric and idiotic governance that is thrust on people sometimes
NOVEMBER 15DAYS	Hornbill 7.The Adventure	 Ways to tackle adventure hazards Recount any adventurous trip Value of not mixing professional and personal life Presence of mind. Thinking on one's feet, analyzing, presenting ideas. Group discussion and guided A single event may

	Conversation Skill Extempore Speech		speeches	change the course of a nation
DECEMBER- 19 DAYS	Hornbill 8.Silk Road Conversation Skill Extempore Speech	 To chronically arrange the challenges and hardships the author faces in the Silk Road regions. Presence of mind. Thinking on one's feet, analyzing, presenting ideas. 	 The reader finds it refreshing to traverse such vast tracts of physical geography, expanses of the natural world that remain largely untamed. Group discussion 	Positive thinking strategy helps one a lot
JANUARY 23 DAYS	Assessment of listening and speaking skill	Students realize the importance of reading and analyzing long text.	 Group discussion and guided speeches Reading the text and referring to other material related to it 	To improve communication skills.
FEBRUARY 23DAYS MARCH 22 DAYS	Correction and Rectification of mistakes Revision for Second Semester Exam Final Exams			

Sec A-Reading Skills-Comprehension	Sec B-Writing Skills- Poster, Speech	Sec C- <u>Literature-</u>
Note making	Grammar -Tenses, Editing	Hornbill-Prose -1,2 Poem -1,3 Snapshots-L-1,2

FIRST TERMINAL SYLLABUS

Sec A-Reading Skills-	Sec B-Writing Skills- Advertisement	Sec C- <u>Literature-</u>
Comprehension,	Poster, Speech, Debate	Hornbill-Prose -1to3,Poem -1,2
Note making	Grammar - Tenses, Reordering of sentences	Snapshots-Prose-1&2

PREBOARD---- FULL SYLLABUS

Syllabus (2023-24)) Subject: (Business Studies) STD-XI

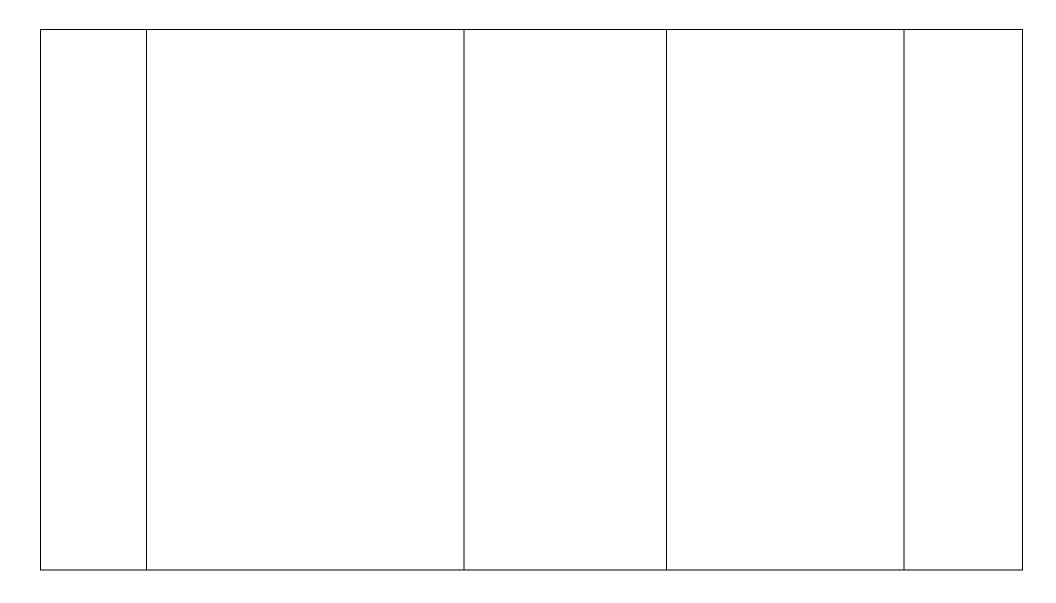
Month and days available for teaching	Unit / Content PART-I FOUNDATION OF BUSINESS	Learning outcome	Assignment/Activities	Human Values/Skills
APRIL 14 Days	Unit-1 Evolution and Fundamentals of Business History of Commerce in India: Indigenous Banking System, Rise of Intermediaries, Transport, Trading Communities: Merchant Corporations, Major Trade Centers, Major Imports and Exports, Position of Indian sub-continent in the world economy	After doing this unit, students would able to know the History of Commerce in India.	Collecting extra information about Commerce.	Developing skills
	 Concepts and characteristics of business. Business, profession and employment-Meaning and their distinctive features. Objectives of business- Economic and social, role of profit in business. Classification of business activities: Industry and Commerce. Industry- types: primary, secondary, tertiary Meaning and subgroups Commerce-trade: (types-internal, external; wholesale and retail) and auxiliaries to trade; (banking, insurance, transportation, warehousing, communication and advertising)- meaning Business risks- Concept 	Making student aware about the term business, business activities. Making them aware about trade and aids to trade. Making them know about different types of risks causes of it.	Collecting information about different types of different activities. Collecting information about different types of risk. Asking them to solve worksheet-1.	Developing informative skill.

JUNE 19 Days	 Unit-2 Forms of business organization. Introduction of sole proprietorship, (merits and demerits) Hindu Undivided Family Business-Concept Cooperative societies- Concept, merits and limitations Partnership (Concept, types, merits, limitation of partnership, registration of a partnership firm, partnership deed. Types of partners Company- Concept, merits and limitations. Types: Private, Public and One person Company- Concept Formation of company- stages, important documents to be used in formation of a company Choice of form of organization. 	Knowing about the different types of organization with it's merits and demerits. Making them aware about the correct choice of organization.	Collecting the information of different forms of organization. Solving work-sheet-2.	Comparative skill.
JULY 24 Days	 Unit-3 <u>Private, public and global enterprise.</u> Public sector and private sector, enterprises-Concept Forms of public sector enterprises: features, merits and limitations of Departmental undertakings, Statutory corporation and Government Company Global enterprises-Feature Joint Venture. Public Private Partnership concept 	Making them learn about public and private sector. Making them aware about the forms of public sector and Joint Venture	Asking them to collect information about public sector enterprise. Asking them to solve worksheet-3	Comparative skills

AUGUST 23 Days	 Unit-4 <u>Business services.</u> Business- meaning and types. Banking-types of bank accounts-saving, current, recurring, fixed deposit, and multiple option deposit account. Banking services with reference to bank Overdraft, Cash credit. E-Banking meaning, Types of digital payments Insurance -Principles. Types- life, health, fire and marine insurance-concept Postal services- Mail, Registered Post, Parcel, Speed Post, Courier-meaning 	Giving them knowledge about insurance, types, principles. Making them aware about banking services.	Asking them to visit different banks and insurance companies and collect information. Asking them to solve worksheet 4.	Analytical skill.
SEPTEMBER 21 Days	Unit-5 Emerging modes of business. • E-business: concept, scope and benefits.	Making them aware about new modes of business. Giving them knowledge about outsourcing as a new mode of business.	Asking them to get information about new outsourcing businesses. Asking them to solve worksheet 5.	Informative skill.
	Revision Term-1 Unit-6 Social responsibilities of business and business ethics. • Concept of social responsibility • Kinds of it towards 'different interest groups' – owners, investors, consumers employees, government and community. • Role of business in environment protection • Business ethics- Concept and Elements.	Making them aware about their social responsibility as citizen and businessman, need to protect our environment.	Asking them to do activities to protect environment. Asking them to complete worksheet 6.	Sensitivity towards environment.

	Project of 20 marks will be given before			
OCTOBER 22 Days	'Diwali Vacation'. Topics will be given in the class. PART-II: FINANCE AND TRADE. Unit-7 Sources of business finance. • Concept of business finance- Introduction, meaning, significance of business finance. • Owner's fund- equity shares, preference shares, retained earnings. • Borrowed funds- debentures and bonds, loans from financial institutions, commercial banks, public deposits, trade credit, Inter Corporate Deposits (ICD).	Giving the information of different sources of finance.	Asking them to complete worksheet 7 discussed in the class.	Analytical skill.
NOVEMBER 15 Days	Unit-8 Small business. • Entrepreneurship Development (ED) Concept, characteristics and Need • Process Entrepreneurship Development: start up in India Scheme, ways to funds start up Intellectual Property Rights and Entrepreneurship. • Small scale enterprise as defined by MSMED Act 2006 (Micro, Small and	After going through this unit, the would be able to: Understand the concept of Entrepreneurship Development (ED), Intellectual Property Rights.	Asking them to get Additional information about sources of finance. Complete work-sheet 8.	Developing knowledge.
	Medium Enterprise Development Act). • Role of small business in India with special reference to rural areas • Government schemes and agencies for small scale industries: National Small Industries Corporation (NSIC) and District Industrial Center (DIC) with special reference to rural,	Making them aware about the condition of small business in India. Giving information about rural small business.	Asking them to collect the information about prospects of small business. Complete work-sheet 9 discussed in the class.	Developing knowledge. Sensitivity towards rural development.

DECEMBER 19 Days	backward area. Unit-9 Internal trade. Internal trade- meaning and types, services rendered by a wholesaler and retailer. Types of retail trade – Itinerant and small-scale fixed shops retailers. Large scale retailers – Departmental stores, Chain stores- Concepts GST (Goods and Services Tax): Concept and key-features.	Making them aware about whole sale trade, retail trade their types. Understanding the concept of GST		Developing knowledge. Comparative skill.
JANUARY 23 Days	Unit-10 International Trade. Concept and benefits Export Trade- Meaning and procedure Import Trade- Meaning and procedure	Giving students knowledge about international business, it's Types. Giving students information about different institutions like IMF, WTO.	Asking them to get additional information about different types. Complete work-sheet -11 and 12. Asking them to collect additional information about different international organization.	



Examwise Portion:

UT1
Unit-1 Nature and Purpose of Business
Unit -2 Forms of business organization
Unit-3 Private, Public and Global enterprise

Term 1 Chapter 1-6 Prelim Full Part 1 and Part 2

Final Exam Weightage

Theory = 80 marks. Project = 20 marks. Total = 100 marks.

BLUE PRINT

Unit	Title	Marks	
1	Nature and Purpose of Business	16	
2	Forms of Business Organization	10	
3	Private, Public & Global		
	Enterprises	14	
4	Business Services		
5	Emerging modes of Business		
6	Social Responsibility of	10	
	Business &	10	
	Business Ethics		
7	Sources of Business Finance	20	
8	Small Business	20	
9	Internal Trade	20	
10	International Business	20	
	TOTAL	90	
	PROJECT WORK (One)	10	
_	TOTAL	100	



D.A.V.PUBLIC SCHOOL, AUNDH, PUNE Subject: Economics (2023-24)

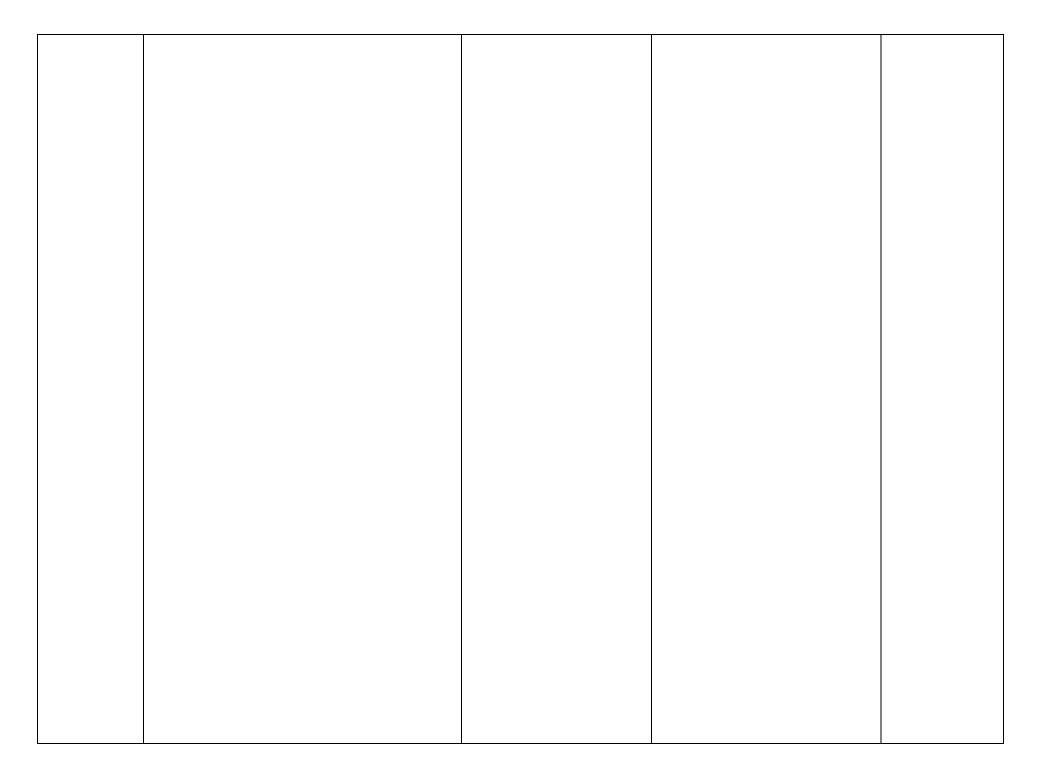
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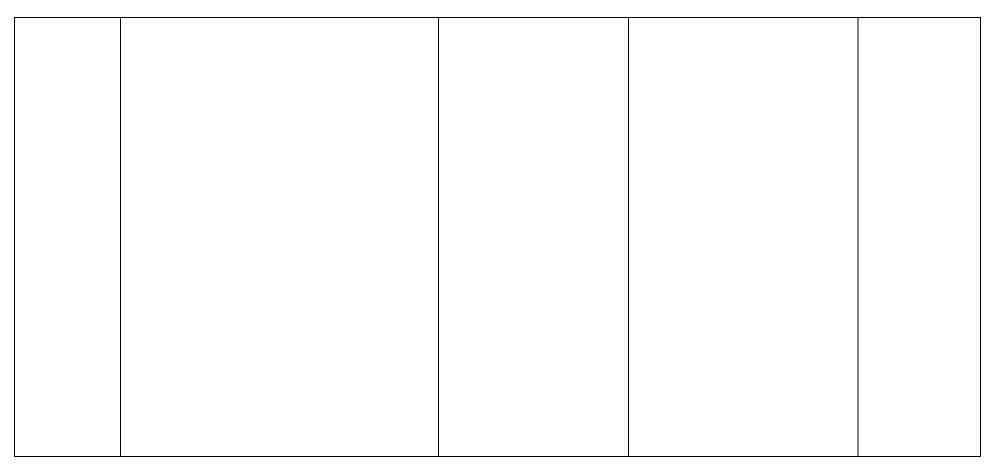
Month and	Unit / Content			Human
days	PART-I	Learning outcome	Assignment/Activities	Values/Skills
available	raiti-i			Values/Skills
for teaching				
APRIL	PART-I STATISTICS FOR ECONOMICS.			
14 Days	Unit-1			
	Introduction.	Making students success	A alain at the area to fined and	Claill of
	What is economics?	Making students aware	Asking them to find out activities related to economics	Skill of
	Meaning, scope, functions and importance of statistics in Economics.	about subject matter of economics.	in our day to day life.	collecting information.
	of statistics in Economics.	economics.	in our day to day me.	illiorillation.
	Unit-2			
	Collection, organization and presentation			
	of data.			
APRIL	Collection of data-sources of data- Primary	Making the students	Asking them to complete	Numerical skill.
14 Days	secondary data; how basic data is	aware about different	work-sheet 1 and 2 discussed	
	collected with concepts of Sampling;	methods of collecting	in the class.	
	methods of collecting data; some	data.		
	important sources of secondary data;			
	Census of India and National Sample			
JUNE	Survey Organization			
19 Days	Organization of data: Meaning, types of variables, frequency distribution.			
19 Days	Presentation of data: Tabular Presentation			
	and Diagrammatic Presentation of Data:			
	i) Geometric form(bar diagram and pie			
	diagrams), b) Frequency diagrams			
	(histogram, polygon and ogive) c)			
	Arithmetic line graphs (time series graph).			
	Unit-3			
	Statistical tool and interpretation.	Different methods	Complete work-sheet 3	Numerical skill.
JULY	Measures of central tendency-Mean,	ofcentral tendency.		
24 Days	median and mode			
ALIGUET	Correlation: Meaning and properties,			
AUGUST	scatter diagram; Measures of correlation-			
23 Days	Karl Pearson's method (two variables			
	ungrouped data), Spearman's rank correlation (Non-repeated ranks and			
	Correlation (Non-repeated ranks and			

SEPTEMBER 21 Days	Repeated ranks) Introduction to index Numbers: Meaning, types- Wholesale price index, consumer price index of index of industrial production, uses of index numbers; inflation and index numbers. Simple Aggregative Method. Project will be given before Diwali vacation. Topics will be given in the class.			Developing their curious thinking.
OCTOBER 22 Days	PART_I MICRO ECONOMICS. Unit-1 Introduction. Meaning of micro and macro economics, positive and normative economics. What is an economy? Central problems of an economy; what, how and for whom to produce; concepts of production possibility frontier and Opportunity cost	To know about basic concept of economy and basic economic activities.	To collect the information about different economic activities. Complete work-sheet 1 discussed in the class.	Collecting information in detail.

OCTOBER 22 Days	Unit-2 Consumer Equilibrium and Demand. Consumer's equilibrium- meaning of utility, law of diminishing marginal utility, conditions of consumer's equilibrium using marginal utility analysis. Indifferent curve analysis of consumer's equilibrium- the consumer's budget (budget set and budget line), preferences of consumer (indifference curve, indifference map) and conditions of consumer's equilibrium. Demand, market demand, determinants of demand, demand schedule, demand curve, movement along and shifts in demand curve; price elasticity of demand- factors affecting price elasticity of demand; measurement of price elasticity of demand-a)percentage- change method and total expenditure method.	To know about the basic concept of demand and verifying the different examples.	To collect the examples related to law of demand. Complete worksheet 2.	Thinking process.
NOVEMBER 15 Days	Unit-3 Producer Behavior and Supply. Production function: Short- run and Longrun. Total Product, Average Product and Marginal Product. Returns to Factor. Cost and Revenue: Short run costmeaning and their relationship. Revenue- total, average and marginal revenue. Producer's equilibrium- meaning and it's conditions in terms of marginal revenue-marginal cost. Supply, market supply, determinants of supply, supply schedule, supply curve, movements along and shifts in supply curve, price elasticity of supply- a)	To know about different examples to verify the law. To know about the main concept of supply with an example.	To collect the examples related to law. To complete work-sheet-3	Application skill.

	percentage- change method.			
DECEMBER 19 Days	Unit-4 Forms of Market and Price Determination under Perfect Competition with simple application. Perfect competition- Features; Determination of market equilibrium and effects of shift in demand and supply.(Short Run Only) Simple Applications of demand and Supply; Price ceiling, price floor.	To know about commodity and non-competitive market. To understand an application of demand and supply.	To complete the work-sheet 4.	Comparative skill.





Units	Title	Marks
1.	Introduction	4
2.	Consumer's Equilibrium and Demand	14
3.	Producer's Behavior and Supply	14
4.	Forms of Market and Price Determination under	8
	Perfect Competition with Simple Applications	
		40
	Total	
Part B	Statistics for Economics	
1	Introduction	15
2	Collection, Organization& Presentation	
3	Statistical Tools & Interpretation	25
	Total	80

Blue-Print

<u>UT1:</u>

a) Introductionb) Collection of datac) Organization of datad) Presentation of data

Part A: Statistics for Economics TERM 1:

PRELIM 1: **Part A: Introductory Micro Economics**

Part B: Statistics for Economics

x-----x

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D.A.V.PUBLIC SCHOOL, PUNE MONTHLY SYLLABUS FOR CLASS – XI (2023-24) SUBJECT:-MATHEMATICS

Months And Days Available For Teaching	Unit / Lesson /Content	Learning Outcome	Assignments / Activities	Values/ Skills
APRIL -14 days.	UNIT I Sets and Functions Sets, Sub-sets, Power set, Venn diagram, Operation on Sets-Union, Intersection, Difference of sets, Complement of a set and its properties. Relations & Functions- Cartesian product of sets, Relations, Functions, Domain, co-domain and range. Real functions, Algebra of real functions.	Students study some basic definitions and operations involved in Sets. The knowledge of Sets is required in the study of geometry, sequences, probability etc. Students study about relations and functions.	Learning basic definitions. Practical problems on Union and Intersection. Finding Domain and Range of functions. Preparing chart to represent relations and functions graphically.	Students learn to apply the knowledge of sets in geometry ,sequences , probability etc.
JUNE –19 days.	UNIT I Trigonometric Functions Measurement, conversions, Trigonometric Functions and their graphs, Trigonometric functions of Sum and Difference of two angles. Complex numbers: Need for Complex numbers, Complex number form, Algebraic properties of complex numbers, Argand Plane	Students study to generalize the concepts of trigonometric ratios to trigonometric functions and study the properties. Trigonometry is used in seismology, designing electric circuit, predicting the heights of tides etc. Students study complex numbers and Argand plane.	Solving trigonometric equations and applying laws of sines and cosines to prove the results. Preparing models to show the graph of sin,cos,tan functions. Finding modulus and conjugate of a complex number.	Students learn to apply trigonometric functions in designing electric circuit, predicting height of tides etc. Students learn to find modulus, conjugate.

	UNIT II Permutations and Combinations Fundamental principle of counting, Factorial, Permutations, Combinations- Simple applications UNIT II	The concept of permutations and combinations is used in studying astronomy. Students study some basic counting techniques and number of different ways of selecting objects	Finding no. of permutations and combinations for the given problems.	Students try to apply permutations in practical life such as opening a number lock and making code numbers etc.
JULY - 24 days	Linear Inequalities Algebraic solution of Linear inequalities in one variable and their representation on the number line UNIT TEST	The study of inequalities is useful in solving optimization problems in the field of statistics, economics etc.	Finding Graphical solution of linear inequalities in one variable.	Students learn to apply concept of Linear inequalities in optimization problems.
AUGUST –23 days	Unit II (ALGEBRA): Sequence and Series: Arithmetic Mean(A.M.), Geometric progression (G.P.) Relation between A.M and G.M., General Term, Sum of n terms of G.P., Infinite G.P. and its sum, G.M., Relation between A.M and G.M.	Students study the concept of G.P,A.M,G.M and relation between them. Sequences have important applications in several spheres of human activities.	Finding nth term and sum of n terms in G.P. and also Sum to Infinity of a G.P.	Students learn to apply the concept of G.P in various problems.

AUGUST –23 days	Binomial theorem Statement and proof Binomial theorem for +ve Integer n – Special Cases – general and middle Terms, Pascal's triangle and Simple applications.	Students study Binomial theorem and its application.	Finding general and middle terms of Binomial Theorem. Preparing a model on Pascal's triangle	Students learn to apply Binomial Theorem in various problems.
SEPTEMBER -21 days	UNIT III Co-ordinate Geometry Straight Lines- Slope of line, Angle between two lines. Co-linearity, various forms of equations of a straight line, Distance of a point from a line.	Students study various representations of lines algebraically for which slope is most essential	Learning different forms of equations of straight line according to given data	Students learn to write different forms of straight line.
OCTOBER – 22 DAYS	UNIT IV-Calculus Limits and derivatives- Algebra of limits-Limits of Trigonometric functions and some other important limits. Derivatives- Algebra of derivatives of functions	Calculus is used in many other subjects such as physics, chemistry, economics and biological sciences.	Finding derivatives of the functions.	Students learn to apply calculus in physics, chemistry, economics, etc.

OCTOBER – 22 DAYS	UNIT III Conic Sections- Sections of a Cone:-Circle, Parabola, Ellipse, hyperbola.	The conics is used in various fields such as planetary motion , design of telescopes and antennas etc.	Deriving the equations of conics.	Students learn to apply the concept of conics in planetary motion and design of telescopes etc
	Introduction to 3D-Geometry – Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points.	Students study the basic concepts of Geometry in 3D.	Finding distance between two points.	
NOVEMBER -15 days	UNIT VI Statistics- Measures of Dispersion Variance and Standard Deviation of ungrouped/grouped data.	Students study some important measures of dispersion and their methods of calculations. The study of statistics is applied to various fields such as genetics, biometry, agriculture etc	Finding Mean Deviation, Standard Deviation and Variance.	Students try to apply the concepts of statistics in real life problems.

DECEMBER -19 days	UNIT VI Probability- Random Experiments – Algebra of Events, Axiomatic Approach to Probability.	Students learn to calculate the probability of various events.	Learning the definition of various types of events.	Students try to apply the concepts of probability in real life problems.
JANUARY- 23 days	Revision + Preboard			
February – 23 days	Final Board Exam			

Syllabus for UT:

Chapter 1: Sets

Chapter 2: Relations and functions Chapter 3: Trigonometric functions

Chapter 5: Complex numbers

Syllabus for Term 1:

Chapter 1 : Sets

Chapter 2: Relations and functions Chapter 3: Trigonometric functions

Chapter 5: Complex numbers Chapter 6: linear Inequalities

Chapter7: Permutation and Combination

Chapter8: Binomial Theorem Final exam: Full portion

Theory - **80** marks

Internal assessment	20 marks
Periodic tests (best 2 out of 3	10 marks
Mathematics activities	10 marks

Months And Days Available For Teaching	Unit / Lesson /Content	Learning Outcome	Assignments / Activities	Values/ Skills
APR- 14 days	UNIT II: ALGEBRA: SETS: Introduction to sets – definition, Representation of sets, Types of sets and their notations, Subsets, Intervals, Venn diagrams, Operations on sets Ordered pairs, Cartesian product of two sets, Relations, Domain and range of a relation.	Students study some basic definitions and operations involve in Sets and also study about relations, domain and range of a relation.	Practical problems on Union and Intersection.	Students learn to apply the knowledge of sets in geometry ,sequences , probability etc
JUNE -19 days	UNIT I: NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS Binary Numbers, Indices, Logarithm and Antilogarithm, Laws and properties of logarithms, Simple applications of logarithm and antilogarithm Averages, Clock	Students learn to • Express decimal numbers in binary system, Express binary numbers in decimal system • Relate indices and logarithm /antilogarithm, Find logarithm and antilogarithms of given number • Enlist the laws and properties of logarithms, Apply laws of logarithm	Definition of number system (decimal and binary), Conversion from decimal to binary system and vice – versa Fundamental laws of logarithm	Students learn to apply rules of indices Students learn to Express the problem in the form of an equation and apply logarithm/ antilogarithm

AUGUST - 23 days.	Unit – III MATHEMATICAL REASONING: Logical reasoning UNIT – IV: CALCULUS: Functions, Domain and Range of a function, Types of functions, Graphical representation of functions	Students study to Solve logical problems involving odd man out, syllogism, blood relation and coding decoding Define various types of functions, Identify domain,	Find func Prep relat	man out • Syllogism • Blo ions • Coding Decoding ing Domain and Range of tions paring chart to represent ions and functions thically	Visualization of graphical representation of data using Excel Spreadsheet or any other computer assisted tool
	UNIT-VI: DESCRIPTIVE STATISTICS Data Interpretation: Measure of Dispersion, Skewness and Kurtosis,		of a	pret Skewness and Kurtos frequency distribution by ing the graph	is
JULY - 24 days.	UNIT I Calendar, Time, Work and Distance, Mensuration, Seating arrangement	Determine Odd days in a month/ year/ century, relationship between work and time ,Compare the work done by the individual / group w.r.t. time , surface area and volume of 2D and 3D shapes. Create suitable seating plan/ draft as per given conditions (Linear/circular)		Decode the day for the given date, Calculate the time taken/ distance covered/ Work done from the given data. Calculate the volume/ surface area for solid formed using two or more shapes Locate the position of a person in a seating arrangement	Students learn to find Odd days in a year/century, Day corresponding to a given date Transforming one solid shape to another Position of a person in a seating arrangement.
	Sequence and Series, Arithmetic Progression, Geometric Progression, Applications of AP and GP.	Students study the concept of A.P-G.P ,A.M ,G.M and relation between them.		Practical problems on Union and Intersection.	
	UNIT TEST				

SEPTEMBER - 21 days	UNIT – VI Contd DESCRIPTIVE STATISTICS: Percentile rank and Quartile rank, Correlation REVISION TERM I EXAM	Students study to differentiate between range, quartile deviation, mean deviation and standard deviation Interpret the coefficient of correlation	Calculate and interpret Percentile and Quartile rank of scores in a given data set,	
	UNIT II : ALGEBRA(CONTD) Permutations and Combinations: Factorial, Fundamental Principle of Counting, Permutations, Combinations UNIT – IV: CALCULUS(CONTD)	The concept of permutations and combinations is used in studying astronomy.	Finding no of permutations and combinations for the given problems.	Students try to apply permutations in practical life such as opening a number lock and making code numbers etc.
OCTOBER-22 days	Concepts of limits and continuity of a function, Instantaneous rate of change, Differentiation as a process of finding derivative, Derivatives of algebraic functions using Chain Rule	Calculus is used in many other subjects such as physics chemistry, economics and biological sciences.	Finding derivatives of the functions.	Students learn to apply calculus in physics, chemistry, economics, etc

NOVEMBER - 15 days	UNIT V: PROBABILITY Introduction, Random experiment and sample space, Event, Conditional Probability, Total Probability, Bayes' Theorem, UNIT VII: FINANCIAL MATHEMATICS Interest and Interest Rates, Accumulation with simple and compound interest, Simple and compound interest rates with equivalency, Effective rate of interest, Present value, net present value and future value, Annuities, Calculating value of Regular Annuity, Simple applications of regular annuities (upto 3 period), Tax, calculation of tax, simple applications of tax calculation in Goods and service tax, Income Tax, Bills, tariff rates, fixed charge, surcharge, service charge, Calculation and interpretation of electricity bill, water supply bill and other supply	Apply reasoning skills to solve problems based on conditional probability, Interpret mathematical information and identify situations when to apply total probability, Solve problems based on, application of total probability Explain the concept of Immediate Annuity, Annuity due and Deferred Annuity, Explain fundamentals of taxation, Describe the meaning of bills and its various types,	Define an event Recognize and differentiate different types of events and find their probabilities, Solve practical problems based on Bayes' Theorem To interpret and analyze electricity bills, water bills and other supply bills Evaluate how to calculate units consumed under electricity bills/water bill	Students try to apply the concepts of probability in real life problems. Apply the concept of Annuity in real life situations Computation of income tax Add Income from Salary, house property, business or profession, capital gain, other sources, etc. Less deductions PF, PPF, LIC, Housing loan, FD, NSC etc.
DECEMBER - 19 days	UNIT VIII : COORDINATE GEOMETRY Straight line, Circle, Parabola	Find the slope and equation of line in various form, Solve problems based on applications of circle, Define parabola and related terms	Application in parabolic reflector, beam supported by wires at the end of the support, girder of a railway bridge, etc.	Students learn to apply straight line in demand curve related to economics problems
JANUARY – 23 days	Revision +PRE BOARD EXAM			
FEBRUARY – 23 days	FINAL EXAM			

Syllabus for UT: Unitwise weightage of marks: Unit I: Numbers, Quantification and **Chapter 1: Numbers** chapter 2: Indices and Logarithms and Numerical applications **Chapter 3: Quantitative Aptitude** Unit II: Algebra **Chapter 5: Sets and Relations Unit III: Mathematical Reasoning Unit IV: Calculus Syllabus for Term 1:** Unit V: Probability **Chapter 1: Numbers Unit VI: Descriptive Statistics Chapter 2: Indices and Logarithms Unit VII: Basics of Financial Mathematics Chapter 3: Quantitative Aptitude Unit VIII:Coordinate Geometry Chapter 4: Mensuration Chapter 5: Sets and Relations Chapter 6: Sequences and series** Final Exam: **Chapter 8: Mathematical Reasoning** Theory : 80 marks **Chapter 9: Functions** Internal assessment: 20 marks **Chapter 13: Descriptive Statistics** 100 marks Total: **Syllabus for Term 2: Chapter 1: Numbers**

chapter 2: Indices and Logarithms
Chapter 3: Quantitative Aptitude

Chapter 8: Mathematical Reasoning

Chapter 10 : Limits and Continuity

Chapter 13: Descriptive Statistics

Chapter 18: Circle and Parabola

Chapter 7: Permutations and Combinations

Chapter 14: Compound Interest and Annuity

Chapter 4: Mensuration

Chapter 9: Functions

Chapter 15: Taxation Chapter 16: Utility Bills Chapter 17: Straight Line

Chapter 11: Differentiation Chapter 12: Probability

Chapter 5: Sets and Relations
Chapter 6: Sequences and series

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