

BHARATIYA VIDYA BHAVAN VIDYASHRAM

K.M. MUNSHI MARG, JAIPUR

SYLLABUS - (2022-2023)

Class: XI

Subject: English Core

Prescribed Books - 1. Hornbill (NCERT)
2. Snapshots (NCERT)

Month	Name of the Topic	Learning Outcome By the end of the topic, students will be able to-
July	<p>Hornbill:</p> <ul style="list-style-type: none">• The Portrait of a Lady• A Photograph• We're Not Afraid to Die...if We Can All Be Together <p>Snapshots:</p> <ul style="list-style-type: none">• The Summer of the Beautiful White Horse <p>Classified Advertisements:</p> <ul style="list-style-type: none">• To-Let/Accommodation Wanted, Sale/Purchase, Situation Vacant/Wanted etc. <p>Grammar:</p> <ul style="list-style-type: none">• Tenses• Re-ordering of Sentences	<ul style="list-style-type: none">• Summarize the story in their own words.• Know more about Khushwant Singh, his writing style and major works.• Reconnect events in the story with real life incidents.• Recall the important points of the story through short answer type questions.• Write the character sketch of the grandmother.• Justify the title by writing a short note on it.• Infer the meaning of metaphorical statements in the story by explaining them in the notebook. Describe distinct literary characteristics of poetic forms• Analyse and extrapolate the ideas.• Identify the figures of speech used in the poem.• Understand the theme and flow of the text.• Learn about the different parts of the ship mentioned in the story.• Write the character sketch of the narrator.• Know more about important geopolitical locations.• Recall the important points of the

		<p>story through a questionnaire or a mind map.</p> <ul style="list-style-type: none"> • Write the character sketch of Uncle Khosrove and Mourad. • Obtain, analyse and communicate information. • Express ideas in an organized manner using appropriate language and format.
August	<p>Hornbill:</p> <ul style="list-style-type: none"> • Discovering Tut: the Saga Continues • The Laburnum Top <p>Snapshots:</p> <ul style="list-style-type: none"> • The Address <p>Reading Comprehension:</p> <ul style="list-style-type: none"> • Note Making <p>Writing Skill:</p> <ul style="list-style-type: none"> • Debate • Speech <p>Grammar:</p> <ul style="list-style-type: none"> • Clauses • Transformation of Sentences 	<ul style="list-style-type: none"> • Explain Egyptian beliefs and traditions about the afterlife. • Describe and retell the story of King Tut. • Discuss how archaeologists work. • Develop greater confidence and proficiency in the use of language skills necessary for social and academic purposes. • Promote advanced language skills with an aim to develop the skills of reasoning, drawing inferences, etc. • Inculcate values like courage, empathy, sensitivity, critical thinking and maintaining relations. • Understand to forget the past and move ahead in life. • Appreciate family members and family bonding and value all that we are blessed with. • Realize the value of time and not to be upset with old memories. • Develop the comprehension skill, analytical skill, language skill and thinking skill. • Write coherently and respond imaginatively. • Participate in critical conversations and prepare, organize and deliver ideas.
September	<p>Reading Comprehension:</p> <ul style="list-style-type: none"> • Factual, descriptive and literary passage • Case-based passage <p>Revision</p>	<ul style="list-style-type: none"> • Enhance writing skill. • Realise importance of reasoning, • Learn to assess and analyse situations. • Exchange ideas.
October	<p>Hornbill:</p> <ul style="list-style-type: none"> • The Voice of the Rain • Childhood • The Adventure 	<ul style="list-style-type: none"> • Understand the critical appreciation of the poem based on rhyme, content and theme. • Identify the figures of speech used in the poem. • Identify the social issues raised. • Learn to select correct

		<p>interpretations and solutions to conceptual problems.</p> <ul style="list-style-type: none"> • Enhance vocabulary. • Know how to take role play. • Learn how to display mannerism and attitude towards others.
November	<p>Hornbill:</p> <ul style="list-style-type: none"> • Silk Road <p>Snapshots:</p> <ul style="list-style-type: none"> • Mother's Day <p>Creative Writing Skill:</p> <ul style="list-style-type: none"> • Poster 	<ul style="list-style-type: none"> • Develop a sense of duty. • Not to indulge in criticism. • Inculcate values like care and concern to save environment. • Develop imaginative and analytical skills. • Realise the importance of saving natural resources. • Express effectively (both verbal and written form). • Know that mothers have equal rights to enjoy their lives and deserve acknowledgement and appreciation. • Strengthen the family bonding with sharing and solving problems. • Develop analytical skills, thinking skills, decision making, management skills, logical skills etc. • Identify and understand the central/main point and supporting details along with the phrases used in the lesson. • Imbibe values like care and concern, empathy, compassion, respect for elders, belongingness and tolerance.
December	<p>Hornbill:</p> <ul style="list-style-type: none"> • Father to Son <p>Snapshots:</p> <ul style="list-style-type: none"> • Birth • The Tale of Melon City 	<ul style="list-style-type: none"> • Comprehend and appreciate poetry. • Learn new words. • Enhance understanding of literary devices. • Read with proper intonation and stress. • Read, compare, contrast, think critically and relate ideas to life. • Analyse using plays for their structure and meaning, correct terminology. • Understand the sense of duty. • Appreciate and accept the selfless service to mankind. • Realise and create a balance between the knowledge gained

		<p>and practical approach.</p> <ul style="list-style-type: none"> • Interpret that the story hinges on the theme - never say die attitude and the precious gift of life. • Become aware of different situations and dealing them well. • Realise that peace and liberty are the two strong factors for a state to flourish. • Able to understand that the rulers of the state should be judicious and sensitive to the needs of the people. • Understand that the ruler of the state must understand the problems and needs of the people. • Understand that the simplest way to maintain peace and liberty in a state is by following the principles of laissez-faire.
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SYLLABUS FOR PERIODIC TEST - 1

Literature:

- The Portrait of a Lady
- A Photograph
- The Summer of the Beautiful White Horse

Grammar:

- Tenses
- Re-ordering of Sentences

Creative Writing Skill:

- Classified Advertisement

SYLLABUS FOR TERM 1 / PERIODIC TEST – 2

Reading Comprehension:

- Factual, descriptive and literary passage
- Case-based passage
- Note Making

Literature:

- The Portrait of a Lady
- A Photograph
- We're Not Afraid to die...if we can All Be Together
- Discovering Tut: the Saga Continues
- The Laburnum Top
- The Summer of the Beautiful White Horse
- The Address

Creative Writing Skills:

- Classified Advertisement
- Speech
- Debate

<p>Grammar:</p> <ul style="list-style-type: none"> • Questions on Gap Filling (Tenses, Clauses) • Questions on re-ordering/ transformation of sentences
<p>SYLLABUS FOR PERIODIC TEST 3</p> <p>Reading Comprehension:</p> <ul style="list-style-type: none"> • Factual, descriptive or literary passage <p>Literature:</p> <ul style="list-style-type: none"> • The Voice of the Rain • The Adventure • Mother's Day <p>Creative Writing Skill:</p> <ul style="list-style-type: none"> • Poster <p>Grammar:</p> <ul style="list-style-type: none"> • Tenses • Clauses • Re-ordering / transformation of sentences
<p>Syllabus for Annual Examination Entire Syllabus</p>

Mathematics

Month	Chapter No. & Name	Learning outcomes
July 2022	9. Sequences and series 3. Trigonometric	<ul style="list-style-type: none"> • Students will be able to determine nth term / sum of n term of AP & GP • able to find the values of trigonometric ratios in all quadrants
August 2022	5. Complex numbers 6. Linear inequalities 7. Permutation & Combination	<ul style="list-style-type: none"> • Learn the concept of an imaginary number and will be able to find unreal roots of a quadratic equation. • able to solve algebraically and graphically • Learn the fundamental principle of counting and its applications
September 2022	7. Permutation & combination Continued. 8. Binomial Theorem	<ul style="list-style-type: none"> • Learn the expansion of BT using Pascal's triangle
October 2022	10. Straight lines 11. Conic Sections	<ul style="list-style-type: none"> • Learn the concept of slope of a line and various forms of equations of line • Know the Conic Section and their standard equations / applications

November 2022	11. Conic Sections continued 12. 3 D Geometry 13. Limits & Derivatives	<ul style="list-style-type: none"> Learn the concept of 3D Geometry distance and section formula in 3D Understand derivatives as rate of change of a quantity wrt. other quantity
December 2022	15. Statistics 1. Sets 2. Relation & Function	<ul style="list-style-type: none"> Learn to calculate mean and standard deviations Learn the representation of sets and concept of Relations & Function
January 2023	16. Probability	<ul style="list-style-type: none"> Learn to find the probability of various events.
February 2023	Revision ANNUAL EXAMINATION	

PT-1	:	Chapter 3 and 9
Half yearly Exam	:	Chapters 3, 5, 6, 7, 8 and 9
PT-2	:	Chapters 10, 11, 12, 13
ANNUAL EXAM	:	Complete syllabus

Physics

TERM-1			
MONTH	NAME OF THE TOPIC	ACTIVITY	Learning out comes
July	Chapter–2: Units and Measurements Chapter–3: Motion in a Straight Line Chapter–4: Motion in a Plane	1. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume.	Learners will be able to understand Scope and application of Physics for the betterment of society. Learners will be able to understand the Need of measurement along with basics of fundamental and derived units. Learners will be able to understand the significance and importance of dimensional analysis of any physical quantity
August	Chapter–5: Laws of Motion Chapter–6: Work, Energy and Power	2. To measure diameter of a given wire and thickness of a given sheet using screw gauge .	Learners will be able to understand the significance of three equations of motion in our daily life along with its mathematical calculus analysis Learners will be able to understand the concept of Projectile motion and the Concept of force.

September	Chapter–7: System of Particles and Rotational Motion	3.To determine radius of curvature of a given spherical surface by a spherometer .	Learners will be able to understand the Basic concept of work done and Concept of mechanical energy, different forms energy. Learners will be able to understand the Mechanical power along with its Practical and SI units.
October	Chapter–7: System of Particles and Rotational Motion Chapter–8: Gravitation	4. To find the weight of a given body using parallelogram law of vectors . 5. Using a simple pendulum , plot its $L-T^2$ graph and use it to find the effective length of second's pendulum.	Learners will be able to understand the concept of centre of mass and centre of gravity of a body. Learners will be able to understand the Concept of Rotational Dynamics. Learners will be able to understand Concept of gravitational force between two bodies and its conservative nature.
November	Chapter–9: Mechanical Properties of Solids Chapter–10: Mechanical Properties of Fluids Chapter–11: Thermal Properties of Matter	6. To study the relationship between the temperature of a hot body and time by plotting a cooling curve	Learners will be able to understand Practicality of different types of Elastic modulli and Relation between stress and strain. Learners will be able to understand Practicality of Fluid dynamics in real life Learners will be able to understand Concept of surface Tension and Surface energy and will be able to relate it with a daily life.
December	Chapter–12: Thermodynamics	7. To study the relation between frequency and length of a given wire under constant tension using sonometer .	Learners will be able to understand the Different methods of heat transfer.
January	Chapter–13: Kinetic Theory	8. To find the force constant of a helical spring by plotting a graph between load and extension.	Learners will be able to understand the application of first and second law of thermodynamics.
February	Chapter–14: Oscillations Chapter–15 :waves	9. To find the speed of sound in air at room temperature using a resonance tube by two resonance positions.	Learners will be able to understand the calculation of time period of simple pendulum and spring. Learners will be able to understand the knowledge of different type of waves.

Syllabus for P1:

Chapter–2: Units and Measurements and Elementary concepts of differentiation and integration for describing motion

Chapter–3: Motion in a Straight Line

Chapter–4: Motion in a Plane

Syllabus for P2 / Term-1:

Chapter–2: Units and Measurements and Elementary concepts of differentiation and integration for describing motion

Chapter–3: Motion in a Straight Line

Chapter–4: Motion in a Plane

Chapter–5: Laws of Motion

Chapter–6: Work, Energy and Power

Chapter–7: System of Particles and Rotational Motion

Syllabus for P3:

Chapter–9: Mechanical Properties of Solids

Chapter–10: Mechanical Properties of Fluids

Chapter–11: Thermal Properties of Matter

Syllabus for Annual Exam:

complete syllabus(Chapter-2 to Chapter-15)

Chemistry

Month	Unit no./ Name of unit	Activity	Learning Outcomes
July	Unit 1- Some basic concepts of chemistry. Unit 2- Structure of atom.	PH experiment. Study of equilibrium (content based experiment)	Unit 1 –To be able to explain various laws of chemical combination and to perform the chemical calculations. Unit 2 –Knowledge of Quantum mechanical model of an atom and to be able to write the electronic configuration of elements.
August	Unit 2- Structure of atom. Unit 3-Classification of elements and periodicity in properties.	Volumetric analysis (Acid base titrations)	Unit 3 –Knowledge of Modern Periodic classification of elements and recognize the periodic trends

September	Unit 4- Chemical bonding and molecular structure. Unit 6-Chemical Thermodynamic	Salt analysis (group 0 &1)	Unit 4 –To be able to explain the formation of different types of bonds and bond structure of various molecules. Unit 6 – Knowledge of Laws of Thermodynamics and concept of Entropy, Spontaneity and Free energy
October	Unit 7- Equilibrium	Salt analysis (group 2 & 3)	Unit 7 –Knowledge of characteristics of equilibria involved in physical and chemical processes and theories related to acids and bases.
November	Unit 8 – Redox Reaction	Salt analysis (group 4 & 5)	Unit 8 –Knowledge of mechanism of redox reactions and balancing of chemical equations.
December	Unit 12- Organic Chemistry: some basic principles and techniques.	Salt Analysis (group 6)	Unit 12 –Knowledge of IUPAC Nomenclature, concept of organic reaction mechanism and influence of electronic displacements on structure and reactivity of organic compounds.
January	Hydrocarbons	Overall revision.	Unit 13 –To learn about various methods of preparation of Hydrocarbons and to be able to distinguish between alkanes, alkenes, alkynes and aromatic hydrocarbons on the basis of physical and chemical properties
February	Overall revision for annual exams		

P1- unit 1

P2/ term-1: unit 1,2, 3,4,6

P3: Unit 7 & 8

Annual exams: unit 1,2,3,4,6,7,8,12 & 13

Biology

Month	Chapter Number and Topics.	Learning outcomes.	Practical/ Demonstration
July	Chapter 1: The Living World <ul style="list-style-type: none"> • What is living? • Biodiversity • Need for classification. • Three domains of life • Taxonomy and systematics • Concept of species • Taxonomical hierarchy • Binomial nomenclature • Tools for study of taxonomy – <ul style="list-style-type: none"> ○ Museums ○ Zoological parks ○ Herbaria ○ Botanical gardens 	<p>Students would be able to know about different terms used in classification.</p> <p>Student would appreciate the differences between museum and zoological parks.</p> <p>Students would have basic understanding of tools for study of taxonomy.</p>	<p>Practical:</p> <p>Parts of a compound microscope.</p> <p>Demonstration:</p> <p>Taxonomical hierarchy.</p>
	Chapter 2: Biological Classification <ul style="list-style-type: none"> • Five kingdom classification • Salient features and classification of Monera, Protista and Fungi into major groups – <ul style="list-style-type: none"> ○ Lichens ○ Viruses ○ Viroids 	<p>Students would be able to observe and explain about different types of subgroups of Kingdom Monera</p> <p>Student would be able to compare Virus ,viroids.and Prions</p> <p>Students would develop basic understanding of five kingdom system.</p>	<p>Demonstration:</p> <p>Examples of algae and fungi.</p>
	Chapter 3: Plant Kingdom <ul style="list-style-type: none"> • Salient features and classification of plants into major groups – <ul style="list-style-type: none"> ○ Algae ○ Bryophyta ○ Pteridophyta ○ Gymnospermae ○ Angiospermae <p>(Three to five salient and distinguishing features and at least two examples of each category)</p> <ul style="list-style-type: none"> • Angiosperms – <ul style="list-style-type: none"> ○ Classification up to class ○ Characteristic features and examples 	<p>Students should be able to know about major groups of plants</p> <p>Student should appreciate the differences between monocots and dicots.</p> <p>Students would observe and develop basic understanding of life cycle of angiosperms.</p>	<p>Practical:</p> <p>Specimens/slides/models and identification with reasons - Bacteria, <i>Oscillatoria</i>, <i>Spirogyra</i>, <i>Rhizopus</i>, mushroom, yeast, liverwort, moss, fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen.</p>

<p>July</p>	<p>Chapter 4: Animal Kingdom</p> <ul style="list-style-type: none"> Salient features and classification of animals non chordates up to phyla level and chordates up to class level (three to five salient features and at least two examples of each category). 	<p>Students would be able to know about different types of Classification systems and terms.</p> <p>Student would be able to differentiate between Chordates and Non chordates.</p> <p>Students would recognize silent features of different groups of animal kingdom.</p>	<p>Practical:</p> <p>Virtual specimens/slides/models and identifying features of - <i>Amoeba</i>, <i>Hydra</i>, liverfluke, <i>Ascaris</i>, leech, earthworm, prawn, silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.</p>
<p>August</p>	<p>Chapter 5: Morphology of Flowering Plants</p> <ul style="list-style-type: none"> Morphology and modifications: Tissues 	<p>Students would be able to know about different types of plant parts modifications.</p> <p>Student would be able to identify and observe different roots and stem modifications.</p> <p>Students would develop basic understanding of morphology of plants.</p>	<p>Practical:</p> <p>Different types of inflorescence (cymose and racemose).</p> <p>Study and describe locally available common flowering plants, from family Solanaceae (Poaceae, Asteraceae or Brassicaceae can be substituted in case of particular geographical location) including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams), type of root (tap and adventitious); type of stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound).</p>
	<p>Chapter 6: Anatomy of flowering plants</p> <ul style="list-style-type: none"> The Tissues – Meristematic and Permanent The Tissue system –Epidermal, Ground and Vascular 	<p>Students will observe :Structure of various types of tissues, concept of simple and permanent tissues, various tissue system</p>	<p>Practical</p> <p>Preparation and study of T.S. of dicot and monocot roots and stems (primary).</p>

	<ul style="list-style-type: none"> • Anatomy of Monocotyledonous and Dicotyledonous Plants • Secondary Growth 	<p>They would be able to compare Primary and secondary growth in Perennial plants</p> <p>They would evaluate the types of wood in Gymno and Angiospermic plants .</p>	
	<p>Chapter 7: Structural Organisation in Animals</p> <ul style="list-style-type: none"> • Animal tissues • Morphology • Anatomy and functions of different systems of an insect (Cockroach) – <ul style="list-style-type: none"> ○ Digestive System ○ Circulatory System ○ Respiratory System ○ Nervous System ○ Reproductive System 	<p>Students would be able to know about different types of animal tissues.</p> <p>Student would appreciate the differences between different types of animal tissues.</p> <p>Students would understand morphology and anatomy of some important animals.</p>	<p>Practical: Study of different plant and animal tissues.</p> <p>Demonstration: Slides and flash cards of animal and plant tissues.</p>
September	<p>Chapter 8: Cell-The Unit of Life</p> <ul style="list-style-type: none"> • Cell theory and cell as the basic unit of life • Structure of – <ul style="list-style-type: none"> ○ Prokaryotic cell ○ Eukaryotic cell • Plant cell and animal cell • Cell envelope – <ul style="list-style-type: none"> ○ Cell membrane ○ Cell wall • Cell organelles - structure and function – <ul style="list-style-type: none"> ○ Endomembrane system ○ Endoplasmic reticulum ○ Golgi bodies ○ Lysosomes ○ Vacuoles ○ Mitochondria ○ Ribosomes ○ Plastids ○ Microbodies 	<p>Students would be able to know about different types of cell organelles.</p> <p>Student would appreciate the differences between prokaryotic and eukaryotic cells.</p> <p>Students would develop basic understanding of structure and functioning of cell organelles.</p>	<p>Practical: Mitosis in onion root tip cells and animals cells (grasshopper) from permanent slides.</p>

	<ul style="list-style-type: none"> ○ Cytoskeleton ○ Cilia ○ Flagella ○ Centrioles (ultrastructure and function) ○ Nucleus -,Nuclear membrane Chromatin, Nucleolus 		
October	Chapter 9: Biomolecules <ul style="list-style-type: none"> • Chemical constituents of living cells • Biomolecules • Structure and function of – <ul style="list-style-type: none"> ○ Proteins ○ Carbohydrates ○ Lipids ○ Nucleic acids ○ Enzymes -Types , Properties Enzyme action 	<p>Students would be able to know about different types of biomolecules.</p> <p>Student would appreciate the differences between different structures of proteins</p> <p>Students would be able to compare the structure and role of carbohydrates, proteins, fats and genetic material.</p>	<p>Practical: Chemical analysis of carbohydrates, fats and proteins.</p> <p>Demonstration: 3D model of DNA.</p> <p>Assessment: Worksheet, Class test, Homework and Oral test.</p>
	Chapter 10: Cell Cycle and Cell Division <ul style="list-style-type: none"> • Cell cycle • Mitosis • Meiosis • significance 	<p>Students would be able to know about different types of cell divisions and their phases.</p> <p>Student would appreciate the differences between meiosis and mitosis.</p> <p>Students would analyze cell division and its importance.</p>	
November	Chapter 13: Photosynthesis in Higher Plants <ul style="list-style-type: none"> • Photosynthesis as a mean of autotrophic nutrition • Site of photosynthesis – <ul style="list-style-type: none"> ○ Pigments involved in photosynthesis (elementary idea) • Photochemical and biosynthetic phases of photosynthesis • Cyclic and non-cyclic photophosphorylation 	<p>Students would be able to know about different types of photosynthetic processes.</p> <p>Student would appreciate the differences between cyclic and non-cyclic photophosphorylation.</p>	<p>Practical:Study of osmosis by potato osmometer.</p> <p>Study of plasmolysis in epidermal peels (e.g. Rhoeo/lily leaves or flashy scale leaves of onion bulb).</p> <p>Separation of plant pigments through paper chromatography.</p>

	<ul style="list-style-type: none"> • Chemiosmotic hypothesis • Photorespiration • C3 and C4 pathways factors affecting photosynthesis 	Students would observe and comprehend the process of photosynthesis.	
	Chapter 14: Respiration in Plants <ul style="list-style-type: none"> • Exchange of gases • Cellular respiration – <ul style="list-style-type: none"> ○ Glycolysis ○ Fermentation (anaerobic) ○ TCA cycle ○ Electron transport system (aerobic) • Energy relations - number of ATP molecules generated • Amphibolic pathways • Respiratory quotient 	<p>Students would be able to know about different types of respiration.</p> <p>Student would be able to differentiate between aerobic and anaerobic respiration.</p> <p>Students should have basic understanding of respiratory mechanism and formation of ATP.</p>	<p>Practical: Study of distribution of stomata on the upper and lower surfaces of leaves.</p> <p>Comparative study of the rates of transpiration in the upper and lower surfaces of leaves.</p> <p>Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.</p>
	Chapter 15: Plant - Growth and Development <ul style="list-style-type: none"> • Growth regulators – <ul style="list-style-type: none"> ○ Auxin ○ Gibberellin ○ Cytokinin ○ Ethylene ○ Aba • Seed dormancy • Vernalisation • Photoperiodism 	<p>Students would understand the role of Plant hormones Auxin, Gibberellin, Cytokinin, Ethylene and ABA</p> <p>They would also be able to explain, seed dormancy, vernalization and photoperiodism.</p>	
December	Chapter 17: Breathing and Exchange of Gases <ul style="list-style-type: none"> • Respiratory organs in animals (recall only) • Respiratory system in humans • Mechanism of breathing and its regulation in humans – <ul style="list-style-type: none"> ○ Exchange of gases ○ Transport of gases ○ Regulation of respiration ○ Respiratory volume • Disorders related to respiration – <ul style="list-style-type: none"> ○ Asthma ○ Emphysema ○ Occupational respiratory disorders 	<p>Students would be able to know about different types of disorders related to respiration.</p> <p>Student would appreciate the differences between breathing and respiration.</p> <p>Students would develop basic understanding of human respiratory system and its working.</p>	<p>Practical: Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials.</p> <p>Demonstration: Model of human respiratory system.</p>
	Chapter 18: Body Fluids and	Students would be	Demonstration:

	<p>Circulation</p> <ul style="list-style-type: none"> • Composition of blood <ul style="list-style-type: none"> ○ Blood groups ○ Coagulation of blood • Composition of lymph and its function • Human circulatory system – <ul style="list-style-type: none"> ○ Structure of human heart ○ Blood vessels • Cardiac cycle – <ul style="list-style-type: none"> ○ Cardiac output ○ ECG • Double circulation • Regulation of cardiac activity • Disorders of circulatory system – <ul style="list-style-type: none"> ○ Hypertension ○ Coronary artery disease ○ Angina pectoris ○ Heart failure 	<p>able to know about different types of blood group and blood cells and disorders related to circulation.</p> <p>Student would appreciate the differences between arteries and veins.</p> <p>Students would understand human circulatory system and its working.</p>	<p>Model of human heart.</p>
January	<p>Chapter 19: Excretory Products and Their Elimination</p> <ul style="list-style-type: none"> • Modes of excretion <ul style="list-style-type: none"> ○ Ammonotelism ○ Ureotelism ○ Uricotelism • Human excretory system <ul style="list-style-type: none"> ○ Structure ○ Function • Urine formation <ul style="list-style-type: none"> ○ Osmoregulation • Regulation of kidney function <ul style="list-style-type: none"> ○ Renin – angiotensin ○ Atrial natriuretic factor ○ ADH and diabetes insipidus • Role of other organs in excretion • Disorders <ul style="list-style-type: none"> ○ Uraemia ○ Renal failure ○ Renal calculi ○ Nephritis • Dialysis and artificial kidney 	<p>Students would be able to know about different types of excretory products and disorders.</p> <p>Student would appreciate the differences between excretion and egestion.</p> <p>Students would understand counter current mechanism of human excretory system and its working.</p>	<p>Practical:</p> <p>Test for presence of urea in urine.</p> <p>Test for presence of sugar in urine.</p> <p>Test for presence of albumin in urine.</p> <p>Test for presence of bile salts in urine.</p> <p>.</p>
	<p>Chapter 20: Locomotion and Movement</p> <ul style="list-style-type: none"> • Types of movement <ul style="list-style-type: none"> ○ Ciliary ○ Flagellar ○ Muscular – skeletal muscle- contractile proteins and muscle contraction 	<p>Students would be able to know about different types of muscles, joints and disorders.</p> <p>Student would appreciate the differences between</p>	<p>Practical:</p> <p>Human skeleton and different types of joints with the help of virtual images/models only.</p> <p>.</p>

		<p>cardiac, skeletal and visceral muscles.</p> <p>Students would have basic understanding of structure of muscular system and its working.</p>	
	<p>Chapter 21: Neural Control and Coordination</p> <ul style="list-style-type: none"> • Neuron and nerves <ul style="list-style-type: none"> ○ Nervous system in humans ○ Central nervous system ○ Peripheral nervous system ○ Visceral nervous system • Generation and conduction of nerve impulse • Reflex action • Sensory perception 	<p>Students would be able to know about different types of sense organs and their working.</p> <p>Student would appreciate the differences between signal transmission withing neuron and between two neurons.</p> <p>Students would analyse the structure and functioning of human brian and its parts.</p>	
	<p>Chapter 22: Chemical Coordination and Integration</p> <ul style="list-style-type: none"> • Endocrine glands and hormones • Human endocrine systemn – <ul style="list-style-type: none"> ○ Hypothalamus ○ Pituitary ○ Pineal ○ Thyroid ○ Parathyroid ○ Adrenal ○ Pancreas ○ Gonads • Mechanism of Hormone Action (elementary Idea) • Role of hormones as messengers and regulators • Hypo - and hyperactivity and related disorders <ul style="list-style-type: none"> ○ Dwarfism ○ Acromegaly ○ Cretinism ○ Goiter ○ Exophthalmic Goiter ○ Diabetes ○ Addison's disease 	<p>Students would be able to know about different types of hormones and their role in human physiology.</p> <p>Student would appreciate the differences between chemical and neural coordination.</p>	<p>Demonstration: Working of hormones using model.</p>

(Deleted chapter number -11,12,16)

Sr. No	Exam -	Name of Chapter
1	PT 1	Unit 1 Chapter-1: The Living World What is living? Chapter-2: Biological Classification Chapter-3: Plant Kingdom Chapter-4: Animal Kingdom Unit 2 Chapter-5: Morphology of Flowering Plants Chapter 6: Anatomy of flowering plants
2	PT 2 / Term 1	Chapter 1 to 10 Unit 2 Chapter-7: Structural Organisation in Animals. Unit 3 Chapter-8: Cell-The Unit of Life Chapter-9: Bio molecules Chapter-10: Cell Cycle and Cell Division.
3	PT 3	Unit 4 Chapter-13: Photosynthesis in Higher Plants Chapter-14: Cellular Respiration Chapter-15: Plant - Growth and Development. Unit 5 Chapter-17: Breathing and Exchange of Gases Chapter-18: Body Fluids and Circulation.
4	Annual Examination	FULL COURSE Chapter 1 to 22 Unit 5 Chapter-19: Excretory Products and their Elimination Chapter-20: Locomotion and Movement. Chapter-21: Neural Control and Coordination Chapter-22: Chemical Coordination and Integration

Optional Subject

Artificial Intelligence

Text Book :

1. Employability Skill Recommended by NCERT
2. AI Material by CBSE

Month	Name of the Topics	Learning Outcome
July	Unit 1: Introduction (knowledge)	Knowledge – Define AI and ML Comprehension – What are the AI products/ applications in society and how are they different from non-AI products/ applications? Evaluation – What kind of jobs may appear in the future?
	Unit 6: Critical and Creative thinking (Skills)	Skill – Understanding the problem and being able to express the same Creativity – To be able to develop/innovate from design a solution
	Unit 1: Communication Skills-III	Skill- enhance the communication skill

August	Unit 2: AI Applications and Methodologies (Introduction) (Knowledge)	Knowledge – Where can AI be applied (like in the field of Computer vision, Speech, Text, etc.), What is deep learning? Comprehension – How AI will impact our society Analysis – How should we get ready for the AI age (future)
	Unit 3: Maths for AI (Recap) (Knowledge)	Comprehension – Linear Algebra, Statistics, Basics of Graphs and Set theory Application – Application of Math in AI Synthesis – Representing data in term of mathematical formula
	Unit 2: Self-management Skills-III	Skill- enhance the management skill
September	Unit 2: AI Applications and Methodologies (Introduction) (Knowledge)	Knowledge – Where can AI be applied (like in the field of Computer vision, Speech, Text, etc.), What is deep learning? Comprehension – How AI will impact our society Analysis – How should we get ready for the AI age (future)
	Unit 2: Self-management Skills-III	Skill- enhance the management skill
	Revision	
October	Unit 4: AI Values (Ethical decision making) (Values)	Knowledge – Ethics, Bias, Impacts of bias on society Application – Spot issue in data, Make arguments, Apply rules
	Unit 7: Data Analysis (Computational thinking) (Skills)	Knowledge – Types of structured data, statistical principals – frequency tables, mean, median, mode, range, etc. Application – Representing data in terms of graphs, statistical models Synthesis – To be able to represent a simple problem in terms of numbers
	Unit 3: Information and Communication Technology Skills-III	Skill- enhance the Information and Communication Technology skill
November	Unit 5: Introduction to story telling (Skills)	Skill – Imagination, mapping the plot into key events increasing memory retention. Application- Helping in creating blogs, videos, and other content.
	Unit 7: Data Analysis (Computational thinking) (Skills)	Knowledge – Types of structured data, statistical principals – frequency tables, mean, median, mode, range, etc. Application – Representing data in terms of graphs, statistical models Synthesis – To be able to represent a simple problem in terms of numbers
	Unit 3: Information and Communication Technology Skills-III	Skill- enhance the Information and Communication Technology skill
December	Unit 5: Introduction to story telling (Skills)	Skill – Imagination, mapping the plot into key events increasing memory retention. Application- Helping in creating blogs, videos, and other content.
	Unit 8: Regression (Knowledge)	Knowledge – Correlations, Regression, and other related terms Applications – Being able to relate data with regression and correlation. Everyday applications of these mathematical concepts.
	4. Unit 4: Entrepreneurial Skills-III	Skill- enhance the Entrepreneurial skill
January	Unit 5: Introduction to story telling (Skills)	Skill – Imagination, mapping the plot into key events increasing memory retention. Application- Helping in creating blogs, videos, and other content.
	Unit 9: Classification & Clustering (Knowledge)	Knowledge – What is classification and its types, what kind of problems may be placed under the category of a classification

		problem Applications – Where to apply classification principals Analysis – Impact of the application of incorrect algorithms on society
	Unit 8: Regression (Knowledge)	Knowledge – Correlations, Regression, and other related terms Applications – Being able to relate data with regression and correlation. Everyday applications of these mathematical concepts.
	4. Unit 4: Entrepreneurial Skills-III	Skill- enhance the Entrepreneurial skill
Feburary	Unit 9: Classification & Clustering (Knowledge)	Knowledge – What is classification and its types, what kind of problems may be placed under the category of a classification problem Applications – Where to apply classification principals Analysis – Impact of the application of incorrect algorithms on society
	Unit 10: AI Values (Bias awareness) (Values) Evaluation – Biases in data, how	Knowledge – What is ethics, Impact of ethics on society, the impact of bias on AI functioning (Values) Evaluation – Biases in data, how to de-bias or neutralize the biased data Application – Finding bias in acquired dataset
	Unit 5: Green Skills-III	Skill- enhance the Green skill

Periodic Test 1 :

Part A:

Unit 1 : Communication Skills-III

Part B:

Unit 1: Introduction To AI

Half Yearly Theory Examination

Part A:

Unit 1 : Communication Skills-III

Unit 2 : Self-Management Skills-III

Part B:

Unit 1: Introduction To AI

Unit 2: AI Applications & Methodologies

Half Yearly Practical Examination

Unit 3: Maths For AI

Unit 6: Critical & Creative Thinking

Periodic Test 3 :

Part A:

Unit 3 : ICT Skills-III

Part B:

Unit 4: AI Values (Ethical Decision Making)

Annual Exam (Theory)

Part A:

- Unit 1 : Communication Skills-III
- Unit 2 : Self-Management Skills-III
- Unit 3 : ICT Skills-III
- Unit 4 : Entrepreneurial Skills-III
- Unit 5 : Green Skills-III

Part B:

- Unit 1: Introduction To AI
- Unit 2: AI Applications & Methodologies
- Unit 4: AI Values (Ethical Decision Making)
- Unit 5: Introduction To Storytelling
- Unit 9: Classification & Clustering

Annual Exam (Practical)

- Unit 3: Maths For AI
- Unit 6: Critical & Creative Thinking
- Unit 7: Data Analysis (Computational Thinking)
- Unit 8: Regression
- Unit 10: AI Values (Bias Awareness)

Informatics Practices

Month	Name of the Topics	Learning Outcome
July	Unit 1: Introduction to computer 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. Software: purpose and types – system and application software, generic and specific purpose software. 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 operators, data types, mutable and immutable data types, statements, expressions, evaluation of expressions, comments, input and output statements, data type conversion, debugging,	Ability to identify the functionality of various hardware components of Computer System and category of various software available and their usage. Ability to develop & debug application using simple python.

August	Unit 2: control statements: if-else, for loop. Introduction to Python Lists: list operations - creating, initializing, traversing and manipulating lists, list methods and built-in functions. 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() Periodic Test 1	Ability to develop application using conditional statement, Lists and Dictionaries. Recall topics done.
Sept.	Half Yearly Exam Theory and Practical	Recall topics done.
October	Unit 4 : Database concepts and the Structured Query Language: (Database concepts and Relational data model: Concept of a database, relations, attributes and tuples, keys) Introduction to SQL, data types in MySQL.	Ability to identify various components of a DBMS. Ability to create database, store data using MySQL.
November	Data Definition Commands: CREATE, DROP, ALTER (Add and Remove primary key, attribute). Data Query Commands: SELECT-FROM-WHERE, LIKE, BETWEEN, IN, ORDER BY, using arithmetic, logical, relational operators and NULL values in queries, Distinct clause Data Manipulation Commands: INSERT, UPDATE, DELETE.	Ability to manipulate data stored in databases.
December	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.	Ability to identify the Emerging trends in the fields of Information Technology and their applications.
Jan.	Periodic Test 2 Revision	Recall topics done.
Feb.	Annual Examination (Practical & Theory)	Recall topics done.

Syllabus for P1	Chapter 1
Syllabus for Half Yearly Exam	Chapter 1, 3, 4
Syllabus for P3	Chapter 7
Syllabus for Annual Exam	Chapter 1,2, 3,4,7, 8

FINE ARTS-PAINTING (THEORY)

Month	Name of the Topic	Activity	Learning Outcome
May, June and July	An introduction to Art Fundamentals of Art	Identify the Colours Make the Colour Wheel	A Theory (History of Indian Art) The objective of including the History of Indian Art for the students is to familiarize them with the various styles and 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
August	Pre-Historic Rock Paintings and Art of Indus Valley (2500 B.C TO 1500B.C)	Identify the Picture of different Art Styles	
September	Buddhist, Jain, and Hindu Art (3 rd Century B.C to 8 th Century A.D)	Develop PPT	
October	Introduction to Ajanta Study	To document	

	of Paintings and Sculptures of Ajanta Caves	difference between Painting & Sculpture	study the evolution of its mutations and synthesis with other style and the rise of an altogether new style. The students should be made aware of art as a human experience. The teachers should be able to expose them to the wide range of artistic impressions, the media and the tools used. The history of Indian art is a long one. Hence the students would be acquainted with brief glimpses of the development of Indian visual art as are required for concept formation. Examples included in the course of study are selected because of their aesthetic qualities and are intended purely as guidelines.
November	Temple Sculpture, Bronzes and Artistic Aspects of Indo-Islamic Architecture)	Develop Charts	
December	Study of Temple Sculpture (7 th , 8 th and 9 th Century A.D)	Identify the Picture of Different Art Styles	
January	Study of Temple Sculpture (10 th -13 th Century A.D) Indian Bronzes	Develop PPT	
February	Artistic Aspects of Indo-Islamic Architecture	Identify the Picture of different Art Styles	

Term Wise Syllabus Painting Class 11

Syllabus for P1:	An introduction to Art Pre-Historic Rock Paintings And Art of Indus Valley (2500 B.C to 1500 B.C)
Syllabus for P2/ Term 1 Exam	Buddhist, Jain and Hindu Art (3 rd Century B.C to 8 th Century A.D) Introduction to Ajanta, Study of Paintings and Sculptures of Ajanta Caves
Syllabus for P3:	Temple Sculpture, Bronzes and Artistic Aspects of Indo-Islamic Architecture(6 th to 13 th Century A.D)
Syllabus for Annual Exam	Complete Syllabus

Subject: FINE ARTS-PAINTING (Practical) Class 11th

Month	Name of the Topic
July	Nature and Object Study
August	Nature and Object Study
September	Nature and Object Study
October	Painting-Composition
November	Painting-Composition
December	Painting-Composition
January	Portfolio Assessment
February	Portfolio Assessment

Physical Education

MONTH	NAME OF THE TOPIC
JULY	Unit I Changing Trends & Career in Physical Education Unit II Olympism
AUGUST	Unit III Yoga
SEPTEMBER	Unit IV Physical Education & Sports for CWSN (Children with Special Needs - Divyang)
OCTOBER	Unit V Physical Fitness, Health and Wellness
NOVEMBER	Unit VI Test, Measurement & Evaluation
DECEMBER	Unit VII Fundamentals of Anatomy, Physiology in Sports
JANUARY	Unit VIII Fundamentals of Kinesiology and Biomechanics in Sports Unit IX Psychology & Sports
FEBRUARY	Unit X Training and Doping in Sports

Syllabus for P1:

Unit I Changing Trends & Career in Physical Education
Unit II Olympism

Syllabus for P2 / Term-1:

Unit I Changing Trends & Career in Physical Education
Unit II Olympism
Unit III Yoga

Syllabus for P3:

Unit IV Physical Education & Sports for CWSN (Children with Special Needs - Divyang)
Unit V Physical Fitness, Health and Wellness

Syllabus for Annual Exam:

complete syllabus

PSYCHOLOGY

Month	Chapter	Activity	Learning Outcome
July	Ch – 1. Introduction to Psychology Ch – 2. Methods in Psychology	Activity of Misconceptions of Psychology Activity on Survey Method	Ch-1. Interest in the new subject is generated and the basic content of the discipline is known Ch-2. The challenging subject content requires various types of methods to study it. These methods will become familiar

August	Ch – 4. Human Development . <u>Practical Project work</u> to be given in the festive break	Activity on Different stages of life	Ch-4. Human development follows a definite pattern. Each stage of life has special developmental task as well as challenges. Each stage right from prenatal to old age will be understood.
September	Ch – 5. Sensory and Perceptual <u>Experiment No. 1:Mirror Drawing</u>	PTI on Visual Illusions, Attention Span	Ch-5. Students will learn how perception goes beyond sensation. Various factors influencing sensation perception and illusion will be clear.
October	Ch – 6. Learning <u>Experiment No. 2:(Span of attention)</u>	Activity on reinforcements used in daily life Activity on transfer of training	Ch-6. The concept of learning , various fundamental theories influencing it will be understood
November	Ch – 7. Memory	Memory Reconstruction activity, Anxiety Test	Ch-7. Students will learn about the various factors that influence our memory processes as well as forgetting
December	Ch – 8.Thinking	Activity on creativity	Various types of thinking will be grasped and the cognitive processes behind them will be understood.
January	Ch – 9. Motivation and Emotion	Role play on the various theories of motivation and emotion	Students will learn to enhance their positive emotions and manage their negative emotions in the real life
February	Revision		

Syllabus for P1	Chapter No. 1 ,2
Syllabus for Half yearly Examination	Chapter Nos. 1 , 2 , 4
Syllabus for P3	Chapter Nos. 1 , 2 , 3 , 4 , 5 , 6,7
Syllabus for Annual Examination	Complete Syllabus (1,2,3,4,5,6,7 ,8,9)

HOME SCIENCE

Month	Name of the Topic	Activity	Learning outcome
July	1) Introduction – HEFS: evolution to the discipline and its Relevance to Quality of Life 2) UNIT-1 Understanding oneself Adolescence Chapter-2	Understanding oneself with reference to peers	<ul style="list-style-type: none"> They will know about the career opportunities of Home Science. The way to have healthy relationship within the family members and peer groups
August	Chapter -4,5 Chapter-4: Management of Resources Chapter-5: Fabrics Around us	Evaluation of adequacy of nutrition	<ul style="list-style-type: none"> The meaning and need for management To explain the concept of yarn and fabric making.
September	Revision		
October	Chapter-3,6,8 Chapter-3: Food , Nutrition , Health and Fitness Chapter-6: Media and Communication Technology Chapter-8: Living and Working in a Global Society	List and discuss 5 messages from print which have influenced own self	<ul style="list-style-type: none"> Understand the functions of food, nutrition, food preservation and health. Develop high values and ethics.
November	Unit-2 Understanding Family, Community and Society Chapter-10,11 Chapter-10: Concern and needs in diverse context Chapter-11: Survival Growth and Development	Observation of any 2 children of different families in the neighborhood	<ul style="list-style-type: none"> Equipped to face the challenges of the real life situations
December	Unit-3 Childhood Chapter-12,14,15 Chapter-12: Nutrition, Health and Well Being Chapter-15: health and wellness Chapter-14: Our Apparel	Documentation of a traditional textile art	<ul style="list-style-type: none"> Students will be able to describe the steps to promote good health and wellness. Students will learn about the importance of Textile Finishing.
January	Chapter-16,17 Chapter-16: Financial Management and Planning Chapter-17 : Care and Maintenance of Fabric	Study of labels on Food Fabric and apparels	<ul style="list-style-type: none"> They will understand the importance of saving and investment. They will learn the care of different fabric

Syllabus for P-1	Introduction Unit-1 - Chapter 2 and 4
Syllabus for P-2	Chapter-2,3,4,5

Applied Mathematics

Month		Chapter Name	Learning Outcomes: Students will be able to	Activity
July 2022		SEQUENCE AND SERIES Arithmetic Progression Geometric Progression Factorial Fundamental Principle of Counting PERMUTATION AND COMBINATION	Differentiate between sequence and series Determine general term of series in AP, Calculate sum of n terms of series. Determine general term of series in GP, Calculate sum of n terms. Solve problems based on relation between AM and GM. Define factorial of a number Calculate factorial of a number Apply the concept of permutation, circular permutation and combination with repetitions to solve problems.	Determine general term of series in GP, Calculate sum of n terms.
August 2022		Binary Numbers Indices, Logarithm and Antilogarithm Laws and properties of logarithms Simple applications of logarithm and antilogarithm Averages	Express decimal numbers in binary system Express binary numbers in decimal system Relate indices and logarithm /antilogarithm Find logarithm and antilogarithms of given number. Apply laws of logarithm. Use logarithm in different applications Determine average for a given data	

		<p>Clock</p> <p>Calendar</p> <p>Time, Work and Distance</p> <p>Mensuration</p> <p>Seating arrangement</p> <p>Logical reasoning</p>	<p>Evaluate the angular value of a minute</p> <ul style="list-style-type: none"> • Calculate the angle formed between two hands of clock at given time • Calculate the time for which hands of clock meet • Determine Odd days in a month/ year/ century • Decode the day for the given date. <p>Establish the relationship between work and time</p> <ul style="list-style-type: none"> • Compare the work done by the individual / group w.r.t. time • Calculate the time taken/ distance covered/ Work done from the given data • Solve problems based on surface area and volume of 2D and 3D shapes • Calculate the volume/ surface area for solid formed using two or more shapes <p>Create suitable seating plan/ draft as per given conditions (Linear/circular)</p> <ul style="list-style-type: none"> • Locate the position of a person in a seating arrangement • Solve logical problems involving odd man out, syllogism, blood relation and coding decoding 	
September 2022		<p>COORDINATE GEOMETRY</p> <p>STRAGHT LINE</p> <p>CIRCLES</p> <p>PARABOLA</p>	<p>Find Slope of line, Calculate angle between two lines. Use various forms of equation of line. Calculate distance between two parallel lines. Solve problems based on applications of circle. Use Application in parabolic reflector, beam supported by wires at the end of the support, girder of a railway bridge, etc.</p>	

OCTOBER 2021		<p>FUNCTION, LIMITS AND CONTINUITY</p> <p>DIFFERENTIATION</p>	<p>Define limit and continuity of a function. Solve problems based on the algebra of limits.</p> <p>Find the derivative of different types function.</p>	<p>Investigating Graphs of function for their properties.</p>
NOVEMBER 2021		<p>DESCRIPTIVE STATISTICS DATA ANALYSIS</p> <p>DATA INTERPRETATION</p> <p>CORRELATION ANALYSIS</p>	<p>Collect and classify data on different scales of measurement.</p> <p>Calculate coefficient of Skewness and interpret. Percentile and Quartile rank of scores in a given data set.</p> <p>Emphasis on application, analysis and interpreting the result of coefficient of correlation using practical examples.</p>	<p>To analyze career graph of the cricketer (Batting / Bowling)</p>
DECEMBER 2021		<p>APPLICATION OF DESCRIPTIVE STATISTICS USING REAL TIME DATA</p> <p>FINANCIAL MATHEMATICS SIMPLE INTEREST</p> <p>COMPOUND INTEREST</p> <p>Annuity</p>	<p>Data Analysis using information through descriptive statistics.</p> <p>Interpret and Calculate simple interest and compound interest</p> <p>Apply the concepts of annuity in real life situations.</p>	
JANUARY 2022		<p>TAXATION</p> <p>BILLS</p> <p>Probability Conditional Probability Total Probability</p>	<p>Explain rules under State Goods and Service Tax (SGST) Central Goods and Service Tax (CGST) and Union Territory Goods and Service Tax (UTGST).</p> <p>To interpret and analyze electricity bills, water bills and other supply bills.</p> <p>Apply reasoning skills to solve problems based on conditional probability</p>	

		Bayes' Theorem	Solve problems based on application of total probability Solve practical problems based on Bayes' Theorem	
FEBRUARY 2022		Sets and Relations Venn diagrams Operations on sets	Solve problems using Venn diagram Perform operations on sets to solve practical problems Express relation as a subset of Cartesian product Find domain and range of a relation	

Name of the Examination		Chapter Name
Periodic Test 1		SEQUENCE AND SERIES
Mid Term Exam		1.Sequence and Series 2.Pernutation and Combination 3. NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS. 4. Logical reasoning
Periodic Test III		1. Coordinate Geometry 2. Calculus

Economics

MONTH	MICRO-ECO	Learning Outcome/Activities
July	Section A: Unit 1: Introduction Ch-1. Statistics in economics Unit 2: Collection, Organisation & Presentation of data Ch-2. Collection of data Ch.-3 Census & Sample	MCQ's- Simple Complex Case study Practical examples from daily life
	Section B: Unit 4: Introduction Ch-1. Economics and economy Ch-2. Central Problems of an Economy Unit-5. Consumer's Equilibrium & Demand Ch.-3 Consumer's Equilibrium (Utility analysis)	MCQ's- Simple Complex Case study Flow charts
August	Section A: Unit 2: Ch-4. Organisation of data Unit.-3-Statistical Tools & Interpretation Ch.-9-Mean & Median Section B: Unit 2: Consumer's equilibrium & demand Ch.- 4 Consumer Equilibrium: To be continued Ch.-5 Theory of Demand Ch.-6 Elasticity of Demand	MCQ's- Simple Complex Case study Tabular, Graphical presentation Formulae for numericals

<p>September</p>	<p>Section A: Unit 3:Statistical tools and interpretation Ch.-10-Mode Section -B Unit 6:Production Function & Returns to a factor Ch-7 Production Function & Returns to a factor</p>	<p>MCQ's- Simple Complex Case study Diagrams</p>
<p>OCTOBER</p>	<p>Section A: Unit 3: Ch- 11- Measures of Correlation Section B: Unit 6: CH-8-Cost Ch- 9 –Revenue Ch- 10 –Producer's Equilibrium Ch- 11 -Supply</p>	<p>Focus on Practical examples, formulae & equations from the point of view of objective type questions. Subjective Detailed Long question answers shall be undertaken.</p>
<p>NOVEMBER</p>	<p>Section A: Unit 3: Chapter 11:—Correlation(To be continued) Project- part-2 Section B: Unit 7: Forms of market & Price determination under Perfect competition Ch-12 Forms of Market Ch-13 Market Equilibrium</p>	<p>Focus on Practical examples, formulae & equations from the point of view of objective type questions. Subjective Detailed Long question answers shall be undertaken.</p>
<p>DECEMBER</p>	<p>Section A: Unit 3: Ch-11.—Correlation (Continues)... Ch-12. Index-numbers Section B: Unit -7 CH.-13- Market Equilibrium .(To be continued)</p>	<p>Focus on Practical examples, formulae & equations from the point of view of objective type questions. Subjective Detailed Long question answers shall be undertaken.</p>

JANUARY	Section A: Unit 3: Ch-13. Index Numbers(To be continued..) Unit-2 Presentation of data Section B: Unit -7 Ch-13(To be continued)	Focus on Practical examples, formulae & equations from the point of view of objective type questions. Subjective Detailed Long question answers shall be undertaken.
February	Revision of full syllabus	

Periodic test-1

Statistics (Section A) - Unit 1: Introduction

Economics Chapter 1- Concept of Economics & Significance of Statistics in

Unit-2 Collection, Organisation and Presentation of data
 Chapter 2- Collection of Data

Micro Economics (Section B)- Unit 4: Introduction

Chapter 1- Economics & Economy
 Chapter 2- Central Problems of an Economy

Periodic test-2/ Half Yearly

Section A- Unit 1, Unit 2: Collection, Organisation & Presentation of data

Chapter-2, Chapter: 3 : Census & Sampling methods, Chapter-4: Organisation of data

Unit 3: Statistical Tools & Interpretation
 Ch.-9,10 (Mean & Median)

Section B- Unit 5: Consumer's Equilibrium & Demand

Chapter-3: Consumer's Equilibrium-Utility analysis
 Chapter-4: Consumer's Equilibrium- Indifference curve analysis

Periodic test-3

Section A: Unit 3: Statistical Tools & Interpretation

Chapter-11: Measures Of Correlation

Section B: Unit 6: Production behaviour & Supply

Chapter-11-Theory of Supply

Final- Complete Syllabus