

St. Paul's School
Annual Syllabus for the academic year 2023-2024
Class XI

English Core

MONTH	SYLLABUS
APRIL	1. WRITING SKILLS: i. Note making ii. Summary iii. Speech Writing Based on Verbal and Visual Cues 2. HORNBILL: <u>The Portrait of a Lady (Prose)</u> 3. HORNBILL: <u>A Photograph (Poetry)</u>
MAY	1. SNAPSHOTS: <u>The Summer of the Beautiful White Horse (Prose)</u> 2. HORNBILL: <u>We're Not Afraid to Die... if we can be together (Prose)</u>
PT I Syllabus	Note-Making and Summary, Classifieds, The Portrait of a Lady, A Photograph, and The Summer of the Beautiful White Horse
JULY	1. WRITING SKILLS: i. Classifieds 2. SNAPSHOTS: <u>The Address (Prose)</u>
AUGUST	1. HORNBILL: <u>The Laburnum Top (Poetry)</u> 2. HORNBILL: <u>Discovering Tut: The Saga Continues (Prose)</u>
SEPTEMBER	1. WRITING SKILLS: i. Speech writing based on verbal/visual input 2. Revision of the syllabus covered.
Term I Syllabus	Everything covered till the month of September. ASL – 20 marks
OCTOBER	1. HORNBILL: <u>The Adventure (Prose)</u> 2. SNAPSHOTS: <u>Mother's Day (Play)</u> 3. HORNBILL: <u>The Voice of the Rain (Poetry)</u> 4. WRITING SKILLS: i. Poster Making
NOVEMBER	1. HORNBILL: <u>Childhood (Poetry)</u> 2. SNAPSHOTS: <u>Birth (Prose)</u> 3. WRITING SKILLS: i. Debate based on visual/verbal inputs in 120-150 words 4. Revision of the syllabus covered.
PT II Syllabus	Reading Comprehension, Debate/Speech, The Adventure, Mother's Day and The Voice of the Rain.
DECEMBER	1. HORNBILL: <u>Silk Road (Prose)</u> 2. SNAPSHOTS: <u>The Tale of Melon City (Poetry)</u> 3. HORNBILL: <u>Father to son</u>
JANUARY	1. Revision of the entire syllabus.
FEBRUARY	Annual Exam - The entire syllabus. Speaking Skills (10 marks) and Notebook (10 marks).

Chemistry

Months	Books: NCERT Chapters	Activity/ Projects/Grammar
April	Ch-1 Some basic concepts of chemistry	1) Crystallization CuSO_4 2) Change in P^{H} with concentration
May	Ch-2 Structure of atom	3) Determination of boiling point 4) Determination of melting point
July	Ch-2 Structure of atom (cont....) Ch. -3 Classification of elements & periodicity in properties Ch.-4 Chemical bonding & molecular structure	5) Preparation of std oxalic acid solution 6) Volumetric analysis a) NaOH Vs N/10 oxalic acid b) HCl Vs N/10 oxalic acid
August	Ch.-4 Chemical Bonding and molecular structure (cont.....) Ch. -5 Thermodynamics	7) Common ion effect 8) Study of shift in equilibrium
September	Revision	9) Salt analysis (Anions)
October	Ch-6 Equilibrium	10) Salt analysis (Anions)
November	Ch-7 Redox Reactions	11) Salt analysis (Cations)
December	Ch-8 Organic chemistry: Some basic principles & techniques	12) Salt analysis (Cations)
January	Ch – 9 Hydrocarbons	13) Salt analysis

Physics

Months	Chapters	Practical/Activity/Project
April	Ch:1 Units and Measurements Ch:2 Motion in a Straight Line	
May	Ch:3 Motion in a plane	E1) To measure the diameter of a small spherical body using Vernier Callipers E2) To measure the internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume.
July	Ch:4 Laws of Motion Ch:5 Work, Energy and Power	E3) To measure the diameter of a given wire using a screw gauge. E4) To measure the thickness of a given sheet using a screw gauge.
Periodic Test 1 – Syllabus: Chapters 1, 2 & 3		
August	Ch:6 System of Particles and Rotational Motion Ch:7 Gravitation	E5) To determine the volume of an irregular lamina using a screw gauge. E6) Using a simple pendulum, plot its $L-T^2$ graph and use it to find the effective length of second's pendulum
September	Revision	
Term 1 Examination Syllabus: Chapters 1 - 7		
October	Ch:8 Mechanical Properties of Solids Ch:9 Mechanical Properties of Fluids	E7) To find the force constant of a helical spring by plotting a graph between load and extension E8) To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.
November	Ch:10 Thermal Properties of Matter Ch:11 Thermodynamics	
Periodic Test 2 – Syllabus: Chapters 8 & 9		
December	Ch:12 Kinetic Theory of Gases Ch:13 Oscillation	
January	Ch:13 Waves	
Term 2 Examination Syllabus: Chapters 1 - 14		

Biology

TERM I		
April-May	Theory	Term 1 Practical
	<p>Unit-I Diversity of Living Organisms</p> <p>Chapter-1: The Living World Biodiversity; Need for classification; three domains of life; taxonomy and systematics; concept of species and taxonomical hierarchy; binomial nomenclature</p> <p>Chapter-2: Biological Classification Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups; Lichens, Viruses and Viroids.</p> <p>Chapter-3: Plant Kingdom Classification of plants into major groups; Salient and distinguishing features and a few examples of Algae, Bryophyta, Pteridophyta, Gymnospermae</p>	<p>A: List of Experiments</p> <p>A1. 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). 5</p> <p>A2. Preparation and study of T.S. of dicot and monocot roots and stems (primary).</p> <p>A3. Study of osmosis by potato osmometer.</p>
July - August	<p>Chapter-4: Animal Kingdom Salient features and classification of animals, non-chordates up to phyla level and chordates up to class level (salient features and at a few examples of each category).</p> <p>Unit-II Structural Organization in Animals and Plant Anatomy and morphology of frog</p> <p>Chapter-5: Morphology of Flowering Plants Morphology of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed. Description of family Solanaceae</p>	<p>A4. Study of plasmolysis in epidermal peels (e.g. Rhoeo/lily leaves or flashy scale leaves of onion bulb).</p> <p>A5. Study of distribution of stomata on the upper and lower surfaces of leaves</p> <p>B. Study and Observe the following (spotting)</p> <p>B1. Parts of a compound microscope.</p> <p>B2. Specimens/slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one</p>

	<p>Chapter-6: Anatomy of Flowering Plants Anatomy and functions of tissue systems in dicots and monocots.</p> <p>Chapter-7: Structural Organisation in Animals Morphology, Anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of frog.</p>	<p>monocotyledonous plant, one dicotyledonous plant and one lichen.</p> <p>B3. Virtual specimens/slides/models and identifying features of - Amoeba, Hydra, liverfluke, Ascaris, leech, earthworm, prawn, silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.</p>
September	<p>Unit-III Cell: Structure and Function</p> <p>Chapter-8: Cell-The Unit of Life Cell theory and cell as the basic unit of life, structure of prokaryotic and eukaryotic cells; Plant cell and animal cell; cell envelope; cell membrane, cell wall; cell organelles - structure and function; endomembrane system, endoplasmic reticulum, golgi bodies, lysosomes, vacuoles, mitochondria, ribosomes, plastids, microbodies; cytoskeleton, cilia, flagella, centrioles (ultrastructure and function); nucleus.</p>	
TERM II		
October	<p>Chapter-9: Biomolecules Chemical constituents of living cells: biomolecules, structure and function of proteins, carbohydrates, lipids, nucleic acids; Enzyme - types, properties, enzyme action.</p> <p>Chapter-10: Cell Cycle and Cell Division Cell cycle, mitosis, meiosis and their significance</p> <p>Unit-IV Plant Physiology</p> <p>Chapter-13: Photosynthesis in Higher Plants Photosynthesis as a means of autotrophic nutrition; site of photosynthesis, pigments involved in photosynthesis (elementary idea); photochemical and biosynthetic</p>	<p>A: List of Experiments</p> <p>A6. Comparative study of the rates of transpiration in the upper and lower surfaces of leaves.</p> <p>A7. Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials.</p> <p>A8. Separation of plant pigments through paper chromatography.</p> <p>A9. Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.</p> <p>A10. Test for presence of urea in urine.</p> <p>A11. Test for presence of sugar in urine.</p> <p>A12. Test for presence of albumin in urine.</p>

	<p>phases of photosynthesis; cyclic and non-cyclic photophosphorylation; chemiosmotic hypothesis; photorespiration; C3 and C4 pathways; factors affecting photosynthesis.</p> <p>Chapter-14: Respiration in Plants Exchange of gases; cellular respiration - glycolysis, fermentation (anaerobic), TCA cycle and electron transport system (aerobic); energy relations - number of ATP molecules generated; amphibolic pathways; respiratory quotient.</p>	<p>A13. Test for presence of bile salts in urine.</p> <p>B. Study and Observe the following (spotting)</p> <p>B4. Mitosis in onion root tip cells and animals' cells (grasshopper) from permanent slides. B5. Different types of in florescence (cymose and racemose).</p>
November	<p>Chapter-15: Plant - Growth and Development Seed germination; phases of plant growth and plant growth rate; conditions of growth; differentiation, dedifferentiation and redifferentiation; sequence of developmental processes in a plant cell; growth regulators - auxin, gibberellin, cytokinin, ethylene, ABA;</p>	<p>B6. Human skeleton and different types of joints with the help of virtual images/models only.</p>
	<p>Unit-V Human Physiology</p> <p>Chapter-17: Breathing and Exchange of Gases Respiratory organs in animals (recall only); Respiratory system in humans; mechanism of breathing and its regulation in humans - exchange of gases, transport of gases and regulation of respiration, respiratory volume; disorders related to respiration - asthma, emphysema, occupational respiratory disorders.</p> <p>Chapter-18: Body Fluids and Circulation Composition of blood, blood groups, coagulation of blood; composition of lymph and its function; human circulatory system - Structure of human heart and blood vessels; cardiac cycle, cardiac output, ECG; double circulation; regulation of cardiac activity; disorders of circulatory system - hypertension, coronary artery disease, angina pectoris, heart failure.</p>	

December	<p>Chapter-19: Excretory Products and their Elimination Modes of excretion - ammonotelism, ureotelism, uricotelism; human excretory system – structure and function; urine formation, osmoregulation; regulation of kidney function - renin - angiotensin, atrial natriuretic factor, ADH and diabetes insipidus; role of other organs in excretion; disorders - uremia, renal failure, renal calculi, nephritis; dialysis and artificial kidney, kidney transplant.</p> <p>Chapter-20: Locomotion and Movement Types of movement - ciliary, flagellar, muscular; skeletal muscle, contractile proteins and muscle contraction; skeletal system and its functions; joints; disorders of muscular and skeletal systems - myasthenia gravis, tetany, muscular dystrophy, arthritis, osteoporosis, gout.</p>	
January	<p>Chapter-21: Neural Control and Coordination Neuron and nerves; Nervous system in humans - central nervous system; peripheral nervous system and visceral nervous system; generation and conduction of nerve impulse</p> <p>Chapter-22: Chemical Coordination and Integration Endocrine glands and hormones; human endocrine system - 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; dwarfism, acromegaly, cretinism, goiter, exophthalmic goitre, diabetes, Addison's disease. Note: Diseases related to all the human physiological systems to be taught in brief.</p>	

Mathematics

Months	Chapters	Activity/ Projects
April	1. Sets 2. Relations and functions	Assignment on Sets and Relations and Functions
May	Relations and functions (contd) 3. Trigonometric functions	Assignment on Trigonometric functions
Periodic Test I - Syllabus: chapters 1, 2 and 3		
July	4. Complex number and Quadratic Equations	
August	5. Linear Inequalities 6. Permutations and combinations	Assignment on complex number, permutation and combination
September	Revision	
Term 1 Syllabus: chapters 1,2,3,4,5,6		
October	7. Binomial Theorem 8. Sequences and Series	
Periodic Test 2 Syllabus: chapters 7 and 8		
November	9. Straight lines 10. Conic sections 11. Introduction to three-dimensional geometry	
December	12. Limits and Derivatives	Assignment on limits and derivatives
January	13. Statistics 14. Probability	
Term 2 Syllabus: complete syllabus		

Business Studies

Months	Chapters	Activity/Project /Grammar
April	Unit 1 of Micro Unit 1: Introduction [Micro] Unit 1 of Statistics Unit 1: Introduction in Statistics Ch1- Introduction Ch 2- Collection of Data	Topics will be discussed for Practical Project Students will be asked to collect information relevant to their topic and discuss the synopsis of the project in general.
May	Ch 3- Methods of Statistical Enquiry Unit 2 of Micro: Unit 2: Consumer's Equilibrium	Topics will be assigned and project to be given as holiday homework
July	Miro: Demand and Elasticity of demand Unit 2 of Stats [Ch 4,5,6,7] Unit 3: Producer Behaviour and Supply (Ch 5,6,7)	Submission of the written content of the project for review
August	Unit 3: Producer Behaviour and Supply (Ch 8,9) Unit 3: Stats: Measures of Central tendency Introduction to Dispersion	Survey and Statistical treatment explained and format of the Project File will be discussed
PT 1 Syllabus	Unit 1 of Micro Unit 1: Introduction [Micro] Unit 1 of Statistics Unit 1: Introduction Ch1- Introduction Ch 2- Collection of Data Ch 3- Methods of Statistical Enquiry	
Term 1 Syllabus	PT1 Syllabus and Unit 2 of Micro Unit 2: Consumer's Equilibrium and Demand Unit 2 of Stats [Ch 4,5,6,7]	Viva based on project (20 marks)
Sep -Oct	Dispersion (Stats) Unit 4: Forms of Market	

November	Unit 4: Forms of Market and Price Determination Including Supply	Review: Students will work on AIL presentation through PPT
PT2	Stats: Unit 3: Measures of Central tendency Micro: Unit 3: Producer's Behaviour and Supply	
December	Correlation Introduction to Index Numbers	Files to be submitted for correction/review
January	Index Numbers	
Term 2	FULL SYLLABUS	Viva based on project

Economics

Months	Chapters	Activity/Project /Grammar
April	Unit 1 of Micro Unit 1: Introduction [Micro] Unit 1 of Statistics Unit 1: Introduction in Statistics Ch1- Introduction Ch 2- Collection of Data	Topics will be discussed for Practical Project Students will be asked to collect information relevant to their topic and discuss the synopsis of the project in general.
May	Ch 3- Methods of Statistical Enquiry Unit 2 of Micro: Unit 2: Consumer's Equilibrium	Topics will be assigned and project to be given as holiday homework
July	Miro: Demand and Elasticity of demand Unit 2 of Stats [Ch 4,5,6,7] Unit 3: Producer Behaviour and Supply (Ch 5,6,7)	Submission of the written content of the project for review
August	Unit 3: Producer Behaviour and Supply (Ch 8,9) Unit 3: Stats: Measures of Central tendency Introduction to Dispersion	Survey and Statistical treatment explained and format of the Project File will be discussed

Term 1 Syllabus	PT1 Syllabus and Unit 2 of Micro Unit 2: Consumer's Equilibrium and Demand Unit 2 of Stats [Ch 4,5,6,7]	Viva based on project (20 marks)
Sep -Oct	Dispersion (Stats) Unit 4: Forms of Market	
November	Unit 4: Forms of Market and Price Determination Including Supply	Review: Students will work on AIL presentation through PPT
PT2	Stats: Unit 3: Measures of Central tendency Micro: Unit 3: Producer's Behaviour and Supply	
December	Correlation Introduction to Index Numbers	Files to be submitted for correction/review
January	Index Numbers	
Term 2	FULL SYLLABUS	Viva based on project

Accountancy

Months	Chapters	Activity/Project /Grammar
April	Unit 1 of Micro Unit 1: Introduction [Micro] Unit 1 of Statistics Unit 1: Introduction in Statistics Ch1- Introduction Ch 2- Collection of Data	Topics will be discussed for Practical Project Students will be asked to collect information relevant to their topic and discuss the synopsis of the project in general.
May	Ch 3- Methods of Statistical Enquiry Unit 2 of Micro: Unit 2: Consumer's Equilibrium	Topics will be assigned and project to be given as holiday homework
July	Miro: Demand and Elasticity of demand Unit 2 of Stats [Ch 4,5,6,7] Unit 3: Producer Behaviour and Supply (Ch 5,6,7)	Submission of the written content of the project for review

August	Unit 3: Producer Behaviour and Supply (Ch 8,9) Unit 3: Stats: Measures of Central tendency Introduction to Dispersion	Survey and Statistical treatment explained and format of the Project File will be discussed
PT 1 Syllabus	Unit 1 of Micro Unit 1: Introduction [Micro] Unit 1 of Statistics Unit 1: Introduction Ch1- Introduction Ch 2- Collection of Data Ch 3- Methods of Statistical Enquiry	
Term 1 Syllabus	PT1 Syllabus and Unit 2 of Micro Unit 2: Consumer's Equilibrium and Demand Unit 2 of Stats [Ch 4,5,6,7]	Viva based on project (20 marks)
Sep -Oct	Dispersion (Stats) Unit 4: Forms of Market	
November	Unit 4: Forms of Market and Price Determination Including Supply	Review: Students will work on AIL presentation through PPT
PT2	Stats: Unit 3: Measures of Central tendency Micro: Unit 3: Producer's Behaviour and Supply	
December	Correlation Introduction to Index Numbers	Files to be submitted for correction/review
January	Index Numbers	
Term 2	FULL SYLLABUS	Viva based on project

Psychology

Months	Chapters	Activity/Project /Grammar
April	Unit 1 of Micro Unit 1: Introduction [Micro]	Topics will be discussed for Practical Project

	Unit 1 of Statistics Unit 1: Introduction in Statistics Ch1- Introduction Ch 2- Collection of Data	Students will be asked to collect information relevant to their topic and discuss the synopsis of the project in general.
May	Ch 3- Methods of Statistical Enquiry Unit 2 of Micro: Unit 2: Consumer's Equilibrium	Topics will be assigned and project to be given as holiday homework
July	Miro: Demand and Elasticity of demand Unit 2 of Stats [Ch 4,5,6,7] Unit 3: Producer Behaviour and Supply (Ch 5,6,7)	Submission of the written content of the project for review
August	Unit 3: Producer Behaviour and Supply (Ch 8,9) Unit 3: Stats: Measures of Central tendency Introduction to Dispersion	Survey and Statistical treatment explained and format of the Project File will be discussed
Term 1 Syllabus	PT1 Syllabus and Unit 2 of Micro Unit 2: Consumer's Equilibrium and Demand Unit 2 of Stats [Ch 4,5,6,7]	Viva based on project (20 marks)
Sep -Oct	Dispersion (Stats) Unit 4: Forms of Market	
November	Unit 4: Forms of Market and Price Determination Including Supply	Review: Students will work on AIL presentation through PPT
PT2	Stats: Unit 3: Measures of Central tendency Micro: Unit 3: Producer's Behaviour and Supply	
December	Correlation Introduction to Index Numbers	Files to be submitted for correction/review
January	Index Numbers	
Term 2	FULL SYLLABUS	Viva based on project

Political Science

Months	Chapters
April -May	Book – Political Theory Ch1-Political Theory; - Introduction Ch-2 Freedom Ch-3 Equality Ch-4 Justice
July	Ch-5 Rights Ch-6 Citizenship Ch-7 Nationalism Ch-8 Secularism
August	Book 1-Indian Constitution at Work) Ch1 Constitution Ch-2 Rights in the Indian Constitution
September	Revision
October	Ch-3 Election and Representation Ch-4 Legislature
November	Ch-5 Executive Ch-6 Judiciary
December	Ch-7 Federalism Ch-8 Local Government
January	Ch-9 Constitution as a living document Ch-10 Philosophy of the Constitution

Sociology

Months	Chapters	Project/ Activity
April	1. Sociology and Society	The basic parameters of the project given to the students.
May	2. Terms, Concepts and Their Use in Sociology	1. Allocation of Project topics Writing of the Rationale for the project 2. Preparing the Questionnaire for the project.
Cycle Test 1	1. Sociology and Society	
July	3. Understanding Social Institutions	Writing of the content for the sub-topics of the project.
August	4. Culture and Socialization	Data analysis for the project to be completed. First Terminal Project viva
September	First Terminal examination Syllabus: Chapters taught covered from April to October	

October	Book 2 1. Social Change and Social Order in Rural and Urban Society	Final Project Completion Data interpretation and conclusion.
November December	2. Introducing Western Sociologists 3. Indian Sociologists.	Project Viva Project
January	Revision	
February	Revision + Project completion	

History

Months	Test/Exam	Chapters	Activity/Project
April & May		Theme 2 -Writing and City Life Theme 3 – An Empire Across Three Continents	Project work for the practical's will be initiated. Students will collect information relevant to their topic.
July	Cycle Test/Periodic Test - I	Theme 1 & 2	
July		Theme 5 – Nomadic Empires	
August		Theme 6 -The Three Orders	
September		Theme 7 – Changing Cultural Traditions	Project work to be collected. Students will be given guidelines about the CBSE Project and the students will submit first draft of their projects.
September	Term I / Half Yearly Exam	Theme 2,3, 5, 6	
October		Theme 10 – Displacing Indigenous People	
November	Cycle Test/Periodic test – II	Theme 7 & 10	
November, December, January		Theme 11 – Paths to Modernization	CBSE Art Integrated Learning (AIL) activity

			On an A3 /A4 size coloured /plain sheet draw, sketch or paint with brief description: Mosaic on European paintings and buildings from 14th to 17th century.
February	Term II/Final Exam	Theme 2, 3, 5, 6, 7, 10, 11	Final Assessment and VIVA of Practical Project.

Computer Science

MONTHS	SYLLABUS
April-May	Computer System Overview, Introduction to problem Solving, Getting started with Python
July	Data Representation, Boolean Logic, Python Fundamentals
August	Data Handling, Flow of Control
September	String Manipulation
October	List Manipulation, Tuples
November	Dictionaries, Understanding Sorting
December	Cyber Safety, Computer Security, Society Law and Ethics

Informatics Practices

MONTHS	SYLLABUS
April & May	Computer System, Getting started with Python and Python Fundamentals
July	Data Handling, Flow of Control
August	List Manipulation
September	Dictionaries
October	Database Concepts

November	Structured Query Language
December	Emerging Trends

Physical Education

MONTH	ENGAGE	EXPLORE	EVALUATE
April	UNIT 1. Changing trends and Career in Physical education	Meaning and definition of physical education Changing trends in physical education Various physical education courses available in India Khelo- India and Fit India Program	Evaluation done through assignment.
May	UNIT 2. Olympism	Ancient and Modern Olympics Indian Olympic Association NOC, IFS	Evaluation done through assignment and class test
July	UNIT 3. Yoga	Meaning and Importance of Yoga Introduction to Asthanga Yoga Introduction to Yogic Kriyas	Evaluation done through assignment and class test
August	UNIT. 4. Physical education and sports for CWSN	Concept of Disability and Disorder Types of Disability Aim and objective of Adaptive Physical Education Paralympics Deaflympics	Evaluation done through Homework.
September	UNIT 5. Physical fitness, Health and Wellness	Meaning and importance of Wellness, Health and Physical Education Traditional Sports and Regional Games for promoting wellness	Evaluation done through assignment and class test.
October	UNIT 6. Test, Measurement and Evaluation	Concept of Test, Measurement and Evaluation Classification of Test in Physical Education and Sports	Evaluation done through assignment and class test.
October	UNIT 7. Fundamental of Anatomy and Physiology in Sports	Importance of Anatomy and Physiology in exercise and sports Function and structure of Circulatory system and heart	Evaluation done through assignment
November	UNIT 8. Fundamental of Kinesiology and Biomechanics in Sports	Definition and importance of Kinesiology and Biomechanics in sports Types of body movement Axis and Planes	Evaluation done through assignment
December	UNIT 9. Psychology and Sports	Definition and importance of Psychology in Physical sports	Evaluation done through assignment and class test

		Adolescent problems and their management	
January	UNIT 10. Training and Doping in Sports	Principles of sports training Training Load: over load, adaptation and recovery	Evaluation done through Homework.

Sculpture

Months	Chapters	Practical
April	1. Element of Art	i. Object sketches ii. Practice sketches iii. Composition (20 drawings based on round sculpture)
May	2. Principle of Art	i. Nature study ii. Practice sketches iii. Composition (20 drawings based on round sculpture)
July	3. Pre-historic Art of India	i. 3D clay modeling ii. Practice sketches iii. Composition (20 drawings based on round sculpture)
August	4. Art of Indus Valley Civilization 5. Art of Mauryan period	i. Round clay modeling compositions ii. practice sketches iii. Composition (20 drawings based on round compositions)
September	6. Art of Kushaana period 7. Buddhist and Jain Art	i. Relief clay modeling ii. practice sketches iii. Composition (20 drawings based on relief sculpture)
October	8. Indo- Islamic Architecture	i. Relief clay modeling ii. practice sketches iii. Composition (20 drawings based on relief sculpture)
November	9. South Indian Bronzes	i. Revision
December	Revision	i. Revision
January	Revision	i. Revision

