Syllabus

Term Wise Breakup

Subject: Islamic Studies

TERM 1	TERM 2
• Death :the gate to the unseen world • Ghazwat Tabook • Honesty saves: The story of three who missed tabook. • Heartily prayer:the story of prophet Zakariyya • Hajjat-ul-Wadaa' Part 1 Holy Quran : • Surat-ul-Naziaat • Surat-Abasa.	• Prophet Yahya (a martyer ,son of a martyr) • The End time • Surat-ul-Munafiqoon: introduction and verses (1-4) • Hajjat-ul-Wadaa part 2 • Alcoholic Beverages: The mother of All Evils Holy Quran: • Surat-Abasa • Surat-ut-Takweer.

Subject: English

Term 1	Term 2
Reading Literature Hornbill: The Portrait of a Lady A Photograph Writing: Notice Listening: Monologues in two parts on presentation skills and TED talks	Reading Literature Hornbill: The Voice of the Rain Snapshots: Ranga's Marriage Writing: Business Letters, Letter to the Editor Listening: Choosing the Right Answer, Sentence Completion

Speaking: group Work- Discussion	Speaking: Pair Work- Radio Interview, Pair Work- Describing Experiences
Reading Literature Hornbill: We're Not Afraid to Die… if We Can All Be Together Snapshots: The Summer of the Beautiful White Horse Writing: Poster Listening: Conversation in two parts on tourism Speaking: : group Work- Discussion	Reading Literature Hornbill: The Ailing Planet Snapshots: Albert Einstein at School Writing: Job Application, Letter to School Authorities Listening: Dialogue in two parts on the telephone Speaking: Group Work- Discussion
Reading Literature Hornbill: Discovering Tut: the Saga Continues Snapshots: The Address Writing: Advertisements Listening: Two monologues describing experiences Speaking: Pair Work-role Play, Group Work-Interview	Reading Literature Hornbill: The Browning Version Snapshots: Mother's Day Writing: Article Listening: conversation in two parts on road accidents and brain development Speaking: Group Work-Debate
	Reading Literature Hornbill: Childhood Snapshots: Birth

	Writing: Speech Listening: Monologue in two parts on a murder mystery Speaking: Group Work- Role Play
	Reading Literature Hornbill: Father to Son Snapshots: Ranga's Marriage Writing: Report Listening: Dialogues between a doctor and his patients Speaking: Group Work-Discussion
	Reading Literature Hornbill: Revision Snapshots: Revision Writing: Revision Listening: Revision Speaking: Revision

Subject: Physics

Term 1	Term 2
Theory • Physical World and Measurement	• Gravitation
• Kinematics	• Properties of Bulk Matter
• Laws of Motion	• Thermodynamics
• Work, Energy and Power	• Behaviour of Perfect Gases and Kinetic Theory of Gases
• Motion of System of Particles and Rigid Body	• Oscillations and Waves
Practical's	Practical's
• Vernier Callipers	• Sonometer
• Screw Gauge	• Surface tension
• Screw Gauge	• Resonance column
• Hooks law	• Hooks law
• Moment Bar	
• spherometer.	

Subject: Mathematics

Term 1	Term 2
Sets	Relations and Functions
Trigonometric Functions	Sequences and series
Introductions to Three Dimensional Geometry	Linear inequalities
Principle of Mathematical Induction	Straight lines
Complex numbers and quadratic equations	Conic Sections
Binomial theorem.	Statistics
Permutations and combinations	Limits And Derivatives
Binomial theorem.	Mathematical Reasoning.

Permutations and combinations	Probability

Subject: Chemistry

Term 1	Term 2
• Some Basic Concepts of Chemistry	• Redox reactions
• Structure of Atom	• Hydrogen
• Classification of Elements and periodicity in properties	• The s-Block Elements
• Chemical bonding and molecular structure	• The p-Block Elements
• States of Matter	• Organic Chemistry- Some Basic Principles and Techniques
• Thermodynamics	• Hydrocarbons
• Equilibrium	• Environmental Chemistry

Subject: Biology

Term 1	Term 2
Unit 3: Cell Structure and Function • Cell: The unit of life • Bio molecules • Cell cycle and cell division	Unit 5: Human Physiology • Digestion and Absorption • Breathing and Exchange of gases • Body fluids and circulation • Excretory Products and their Elimination • Locomotion and Movement • Neural Control and coordination • Chemical Coordination and Integration.
Unit 1: Diversity in the Living world • The living world • Biological Classification • Plant Kingdom • Animal Kingdom	Unit 4: Plant Physiology • Transport in Plants • Mineral Nutrition • Photosynthesis in Higher Plants • Respiration in Plants • Plant Growth and development
Unit 2: Structural Organisation in plants and animals • Structural organization in Animals	Unit 2: Structural Organisation in plants and animals • Anatomy of Flowering Plants

	• Morphology of flowering Plants
PRACTICAL SKILLS: • Distribution of Stomata on the two surfaces of leaf • Study of Plasmolysis. • To separate and study the plant pigments by paper chromatography. • Test for Carbohydrates, Proteins and Fats and their detection in Suitable Plant and Animal Materials. • Study of Plant Specimens and identification with reasons: Oscillatoria, Spirogyra, Mushroom, Rhizopus, Yeast, Liver wort, Moss, Fern, Pinus, one monocotyledon and one dicotyledon • Study of Characters of Animal Specimens and identification with reasons: Amoeba, Hydra, Liver fluke, Ascaris, Leech, Earthworm, Prawn, Silkworm, Honeybee, Snail, Starfish. • Study of Various stages of Mitosis in onion root tip cells from permanent slides. • External Morphology of Cockroach.	PRACTICAL SKILLS: • Study of mammalian blood tissue by preparing a human blood smear slide. • To Predict –with the help of parents blood group -and test the blood group of their peers. • To study the action of salivary amylase on starch. • To study the effect of temperature on the activity of salivary amylase on starch. • Study and description of flowers. • To identify and comment on different types of inflorescence. • Study of different modifications in root, stems and leaf • To study the rate of respiration in germinating seeds having different substances such as wheat, mustard and gram/bean. • To study imbibition in raisins. • To demonstrate osmosis by potato osmometer.

Subject: Accountancy

Term 1	Term 2
• Introduction to Accounting, Objectives, advantages and limitations	• Rectification of Errors
• Types and users of accounting information	• Depreciation, Provision and Reserves
• Basic accounting terms	• Accounting for Sole Proprietorship
• Fundamental accounting assumptions & Accounting principles	• Accounting for Not-for-Profit Organisations
• Bases of accounting	• Computers in Accounting
• Accounting Standards and IFRS	• Project Work
• Accounting Equation, Rules of debit-credit, source documents, Journal and Subsidiary Books	

• Bank reconciliation Statement	
• Ledger and Trial Balance	
• Bills of Exchange	
• Project Work	

Subject: Business Studies

Term 1	Term 2
• Nature and Purpose of Business	• Social Responsibility and Business Ethics
• Meaning and forms of business organizations	• Sources of Business Finance
• Public, Private and Global Enterprises	• Small Business
• Business Services	• Internal Trade
• Emerging modes of business	• International Trade
• Project Work	• Project Work

Subject: Economics

Term 1 Statistics	Term 2 Statistics
• Introduction	• Measures of Central Tendency
• Presentation of data	• Measures of Dispersion
• Collection of data	• Correlation
• Organization of data	• Index number
	• Use of Statistical tools
Indian Economic Development	Indian Economic Development
• Indian Economy at the eve of Independence	• Poverty
• Indian Economy(1950-1990)	• Human Capital
• Economic Reforms since 1991	• Rural Development
	• Employment
	• Infrastructure
	• Environment and Sustainable development

Subject: Computer Science

Term 1	Term 2
• Computer Overview	• Introducing Functions and Modules.
• Working With Operating System	• User Defined Functions.
• Data Representation	• Programming Methodology.
• Microprocessor Basics – I/O and Memory Devices	• Conditional and looping constructs.
• Getting Started with Python.	• String Manipulation.
• Programming Methodology.	• List Manipulation.
• Python Fundamentals.	• Project Work Guidelines.
• Data Handling.	
• Introducing Functions and Modules.	

Subject: Psychology

Term 1	Term 2
• Introduction – What is Psychology ?	• Sensory, Attentional and Perceptual Processes
• Methods Of Enquiry In Psychology	• Learning
• The Bases Of Human Behaviour	• Human Memory
• Human Development	• Thinking
• Research work –Project	• Motivation and Emotion
	• Experiment

Subject: Physical Education

TERM 1	TERM 2
Unit I Physical Fitness, Wellness & Lifestyle • Meaning & Importance Of Physical Fitness, Wellness & Lifestyle • Factors Affecting Physical Fitness & Wellness • Indicators Of Health – Physical & Psychological • Preventing Health Threats Through Lifestyle Change • Components Of Positive Lifestyle **Unit II Changing Trends & Career In Physical Education** • Define Phy. Edu., Its Aims & Objectives • Development OfPhy. Edu. - Post Independence • Concept & Principles Of Integrated Phy. Edu. • Concept & Principles Of Adaptive Phy. Edu. • Career Options InPhy. Edu. **Unit III Olympic Movement** • Ancient & Modern Olympics • Olympic Symbols, Ideals, Objectives & Values • International Olympic Committee • Indian Olympic Association • Dronacharya Award, Arjuna Award & Rajiv Gandhi Khel Ratna Award • Organisational set-up of CBSE Sports &ChachaNehru Sports	**Unit VII Test & Measurement In Sports** • Define Test & Measurement • Importance Of Test & Measurement In Sports • Calculation Of BMI & Waist - Hip Ratio • Somato Types (Endomorphy, Mesomorphy&Ectomorphy) • Procedures Of Anthropromatric Measurement – Height, Weight, Arm & Leg Length And Skin Fold **Unit VIII Fundamentals Of Anatomy & Physiology** • Define Anatomy, Physiology & Its Importance • Function Of Skeleton System, Classification Of Bones & Types Of Joints • Function & Structure Of Muscles • Function & Structure Of Respiratory System • Structure Of Heart & Introduction To Circulatory System **Unit IX Biomechanics & Sports** • Meaning & Importance of Biomechanics InPhy. Edu. & Sports • Newton's Law Of Motion and its application in sports • Levers & Its Types and its application in sports

Award

Unit IV Yoga

- Meaning & Importance of Yoga
- Yoga as an Indian Heritage
- Elements of Yoga
- Introduction to - Asanas, Pranayam, Mediation & Yogic Kriyas
- Prevention & Management Of Common Lifestyle Diseases; Obesity, Diabetes, Hyper-Tension & Back-Pain

Unit V Doping

- Meaning & Types Of Doping
- Prohibited Substances & Methods
- Athletes Responsibilities
- Testing – In Competition & Out-Of-Competition
- Side Effects Of Prohibited Substances

Unit VI Management Of Injuries

- Common Sports Injuries Of Soft Tissues, Joints & Bones
- First-Aid In Common Sports Injuries
- Prevention of Sports Injuries
- Rehabilitation Through Massage & Exercise

- Equilibrium – Dynamic & Static And Centre Of Gravity and its application in sports
- Force – Centrifugal & Centripetal and its application in sports

Unit X Psychology & Sports

- Definition & Importance Of Psychology In Phy. Edu. & Sports
- Define & Differentiate Between Growth & Development
- Developmental Characteristics At Different Stage Of Development
- Adolescent Problems & Their Management
- Define Learning, Laws Of Learning & Transfer Of Learning

Unit XI Training In Sports

- Meaning & Concept Of Sports Training
- Principles Of Sports Training
- Warming up & limbering down
- Load, Adaptation & Recovery
- Skill, Technique & Style