



DELHI PUBLIC SCHOOL ONGC, NAZIRA

(Under the aegis of the DPS Society, New Delhi)

[School No. 35121]

C.B.S.E. Affiliation No.: 230033

Class: XI

SYLLABI FOR THE SESSION: 2024-2025

Subject: English Core (301)

Subject Tr: Kalpashri M, Bondita P & Meenakshi D

Text Book : 1. Hornbill

2. Snapshots

April 2024	<ol style="list-style-type: none">1. Grammar (As prescribed by the CBSE)2. Reading Skill- Reading Comprehension Passages3. The Portrait of a Lady4. A Photograph
May 2024	<ol style="list-style-type: none">1. Reading Skill-Note-making and Summarising2. Writing Skill- Classified Advertisements3. The Summer of the Beautiful White Horse4. We're Not Afraid to Die.....If We all are Together
June 2024	<ol style="list-style-type: none">1. Writing Skill- Designing Posters2. The Address3. The Laburnum Top
July 2024	Summer Vacation
August 2024	<ol style="list-style-type: none">1. Writing Skills- Drafting Speeches2. Grammar (As prescribed by the CBSE)3. The Voice of the Rain4. Mother's Day
September 2024	<ol style="list-style-type: none">1. Revision + Half Yearly Examination
October 2024	<ol style="list-style-type: none">1. Writing Skill- Debate2. Reading Skills (Reinforcement of the ones taught earlier)3. Grammar (Reinforcement of the ones taught earlier)4. Childhood5. Discovering Tut: The Saga Continues
November 2024	<ol style="list-style-type: none">1. Writing Skills (Reinforcement of the ones taught earlier)2. Reading Skills (Reinforcement of the ones taught earlier)3. Grammar (Reinforcement of the ones taught earlier)4. Birth5. Father to Son
December 2024	<ol style="list-style-type: none">1. Writing Skills (Reinforcement of the ones taught earlier)2. Reading Skills (Reinforcement of the ones taught earlier)3. Grammar (Reinforcement of the ones taught earlier)4. The Adventure
January 2025	<ol style="list-style-type: none">1. Writing Skills (Reinforcement of the ones taught earlier)2. Reading Skills (Reinforcement of the ones taught earlier)3. Grammar (Reinforcement of the ones taught earlier)1. The Tale of Melon City
February 2025	<ol style="list-style-type: none">1. Silk Road <p>Final Brush with Revision</p>
March 2025	Annual Examination 2025

Month	Topics
April	Unit 1 Numbers, Quantification and Numerical Applications <ul style="list-style-type: none"> • Binary Numbers • Laws and properties of logarithms • Simple applications of logarithm and antilogarithm • Numerical problems on averages, calendar, clock, time, work and distance, , seating arrangement • Indices, Logarithm and Antilogarithm
May	Unit 2 Algebra <ul style="list-style-type: none"> • Sets • Types of sets • Venn diagram • De Morgan's laws • Problem solving using Venn diagram Relations and types of relations Unit -3 MATHEMATICAL REASONING Logical reasoning <ul style="list-style-type: none"> • Solve logical problems involving odd man out, syllogism, blood relation and coding decoding
June	Unit IV Calculus <ul style="list-style-type: none"> • Introducing functions • Types of functions (Polynomial function; Rational function; Logarithm function; Exponential function; Modulus function; Greatest Integer function, Signum function) • Graphical representation of functions • Concept of limits and continuity of a function • Instantaneous rates of change • Differentiation as a process of finding derivative • Derivatives of algebraic functions using Chain rule • Domain and Range of a function
August	Unit V Probability <ul style="list-style-type: none"> • Random experiment, sample space, events, mutually exclusive events • Independent and Dependent Events • Law of Total Probability • Bayes' Theorem
September	Half Yearly Examination
October	Unit VI Descriptive Statistics <ul style="list-style-type: none"> • Data on various scales (nominal, ordinal, interval and ratio scale) • Data representation and visualization • Data interpretation (dispersion, deviation, variance, skewness and kurtosis) • Percentile rank and quartile rank
November-December	Unit VII Basics of Financial Mathematics <ul style="list-style-type: none"> • Interest and interest rate • Accumulation with simple and compound interest • Simple and compound interest rates with equivalency • Effective rate of interest • Present value, net present value and future value • Annuities, calculating value of regular annuity • Simple applications of regular annuities (up to 3 period) • Tax, calculation of tax and simple applications of tax calculation in Goods and service tax, Income Tax • Bills, tariff rates, fixed charge, surcharge, service charge • Calculation and interpretation of electricity bill, water supply bill and other supply bills (Comparing interest rates on various types of savings; calculating income tax; electricity
January	Unit VIII Coordinate Geometry <ul style="list-style-type: none"> • Straight Line • Circles • Parabola
February	Revision
March	ANNUAL EXAM

Subject: Mathematics (041)**Subject Tr: Promod S****Text Book : Mathematics-XI (Text Book Part - I)**

Month	Topics
April	Sets,
May	Relation and Function
Jun	Trigonometry, complex number
August	Linear inequalities, permutations and combination, binomial.
Sept	Half Yearly.
October	sequence and series, straight lines
November	conic section, three dimension
December	Limits and derivative, statistics
January	probability
February	Revision
March	Annual Exam

Subject : Chemistry (043)**Subject Tr: Nilkamal Goswami****Books : Chemistry-XI (Part - I & II)**

Month	Topics
April	Unit-1: Basic Concepts of Chemistry Unit-2: Structure of Atom.
May	Unit-1: Basic Concepts of Chemistry Unit-2: Structure of Atom
June	Unit-3: Classification of Elements and Periodicity in Properties Unit-4: Chemical Bonding and Molecular Structure.
July	Summer Vacation
August	Unit-4: Chemical Bonding and Molecular Structure. Unit-5: Thermodynamics
September	Unit-5: Thermodynamics Unit-6: Equilibrium
October	Unit-5: Thermodynamics Unit-6: Equilibrium
November	Unit-7: Redox Unit-8: Organic Chemistry: Some Basic Principles and Techniques.
December	Unit-8: Organic Chemistry: Some Basic Principles and Techniques. Unit-9: Hydrocarbon
January	Unit-9: Hydrocarbon
February	Revision and Practical Examination
March	Annual Exam 2025

Subject : Physics (042)**Subject Tr: Dikshita Saikia****Books : Physics - XI (Part - I & II)**

Month	Topics
April	Bridge Course: Basic mathematical tools and formulas UNIT 1: Units and Measurement
May	UNIT 2: Kinematics UNIT- 3: Laws of Motion
June	UNIT 2: Kinematics UNIT- 4: Work, Energy and Power
July	Summer Break
August	UNIT- 5: Motion of system of Particles UNIT- 6: Gravitation
September	UNIT- 6: Gravitation UNIT- 7: Propeties of Bulk Matter

October	UNIT- 7: Properties of Bulk Matter
November	UNIT-8: Thermodynamics
December	UNIT-9 : Behaviour of Perfect Gases and Kinetic Theory of Gases UNIT-10: Waves and Oscillation
January	UNIT-10: Waves and Oscillation.
February	Revision and Practical Examination
March	Annual Exam 2024-25

Subject : Biology (044)

Books : Biology-XI

Subject Tr: Trishna Dutta

Month	Topics
April	Unit I: Diversity of Living Organisms Chapter 1 : The Living World Chapter 2 : Biological Classification
May	Unit I: Diversity of Living Organisms (Contd...) Chapter 3 : Plant Kingdom Chapter 4 : Animal Kingdom
June	Unit II: Structural Organization in Animals and Plants Chapter 5 : Morphology of Flowering Plants Chapter 6 : Anatomy of Flowering Plants Chapter 7 : Structural Organisation in Animals
July	Summer Break
August	Unit III : Cell - Structure and Function Chapter 8 : Cell – The Unit of Life Chapter 9 : Biomolecules Chapter 10 : Cell Cycle and Cell Division
September	REVISION HALF YEARLY EXAM
October	Unit IV: Plant Physiology Chapter 13 : Photosynthesis in Higher Plants Chapter 14 : Respiration in Plants Chapter 15 : Plant – Growth and Development.
November	Unit V : Animal Physiology Chapter 17 : Breathing and Exchange of Gases Chapter 18 : Body Fluids and Circulation Chapter 19 : Excretory Products and their Elimination
December	Unit V : Animal Physiology Chapter 20 : Locomotion and Movement Chapter 21 : Neural Control and Coordination Chapter 22 : Chemical Coordination and Integration
January	REVISION
February	PRACTICAL EXAMINATION+ ANNUAL EXAM
March	ANNUAL EXAM : 2024-25 (Contd...)

Subject: Physical Education (048)

Book: E-Book of Physical Education - CBSE

Subject Tr: Sanjeev Kumar

Month	Topics
April	Unit-1 Changing trends and career in Physical Education. Badminton, Yoga, Outdoor games,
May	Unit-2 Olympism Value Education, Cricket, Football
June	Unit-3 Yoga Badminton, Football, Art Integration Activity on International Yoga Day
July	Summer Vacation

August	Unit- 4 – Physical Education and Sports for CWSN (Children with Special needs) Unit-5 Physical Fitness, Health and Wellness, Table Tennis, Badminton
September	Unit-6 Test, Measurement and Evaluation Revision & SA-1, Fit India Freedom Run associated with Independence Day
October	Unit-7 Fundamentals of Anatomy and Physiology in Sports. Unit-8 Fundamentals of Kinesiology and Biomechanics in Sports. Tennis, Cricket EBSB activity
November	Unit-9 Psychology and Sports. Inter and Intra class Sports Competition
December	Unit-10 Training and Doping in sports. Revision, Art Integration: Poster making and Collage making on healthy food habits. EBSB activities, Fitness activities
January	Revision
February	Revision and Practical
March	Final Examination

Subject : Computer Science New (083)

Subject Tr: Monjit Sonar

Books : Textbook for Computer Science - XI with Python (Sumita Arora)

<i>Month</i>	<i>Topics</i>
<i>April</i>	Introduction to Python
<i>May</i>	Computer System & Organisation
<i>June</i>	Computer System & Organisation
<i>July</i>	Summer Vacation
<i>August</i>	Boolean Logic, Number Systems, Encoding Schemes, Emerging trend and Technology
<i>September</i>	Computational Thinking & Programming -1
<i>October</i>	Computational Thinking & Programming -1
<i>November</i>	Society, Law and Ethics
<i>December</i>	Society, Law and Ethics/Programming
<i>January</i>	Revision
<i>February</i>	Revision
<i>March</i>	Annual Exam

Subject: Accountancy (055)

Subject Tr: Debapriya Roysharma

Book: 1. Financial Accounting-I - NCERT/ABD

2. Accountancy-II - NCERT/ABD

Month	Topics
April	Introduction to Accounting, Theory Base of Accounting
May	Recording of Business Transactions – Journal, Cash Book, Subsidiary Books
June	Recording of Business Transactions – Journal with GST, BRS
July	Summer Vacation
August	Recording of Business Transactions – Depreciation and Provisions,
September	Recording of Business Transactions – Trial Balance and Rectification of Errors
October	Financial Statement of Sole Proprietorship
November	Financial Statement of Sole Proprietorship
December	Incomplete Records
January	Incomplete Records
February	Revision
March	Annual Exam

Subject: Business Studies (054)

Subject Tr: Debapriya Roysharma

Book: Text Book for Business Studies XI - P.Gandhi - NCERT/VK

Month	Topics
April	Nature and Purpose of Business
May	Forms of Business Organisations
June	Public, Private and Global Enterprises
July	Summer Vacation
August	Business Services
September	Emerging Modes of Business
October	Social Responsibility of Business and Business Ethics
November	Sources of Business Finance
December	Small Business
January	Internal Trade, International Business
February	Revision
March	Annual Exam

Subject: Economics (030)

Subject Tr : Suma Das

Text Book : 1. Statistics for Economics- NCERT and Dhanpat Rai

2. Introductory Micro Economics - NCERT and Dhanpat Rai

Month	Topics
April	Introduction to Economics, Collection of Data
May	Collection, Organization and Presentation of Data
June	Statistical tools and Interpretation (Measures of Central Tendency)
July	Summer Vacation
August	Statistical tools and Interpretation (Measures of Central Tendency), Introduction to Micro Economics
September	Statistical tools and Interpretation (Correlation) Consumers Equilibrium and Demand
October	Statistical tools and Interpretation (Correlation and Index No.), Demand
November	Producers' behavior and Supply, Index No.
December	Forms of Market and Price Determination
January	Price Determination and simple applications under Perfectly competition
February	Price Determination and simple applications under Perfectly competition, Revision
March	Revision and Annual Exam 2024-25

Subject: History (027)

Subject Tr: Indrani Borthakur

Book: Themes in World History Textbook XI

Month	
April	TERM 1 -Reading of World History-Introduction of World History,Introduction Timeline I (6 MYA TO 1 BCE)
May	I.Early societies-Theme 1-Writing And City Life
June	Introduction Timeline II (C. 100 BCE TO 1300 CE)SECTION II. Empires Theme 2-An Empire Across Three Continents
July	Summer Vacation
August	II.Empires Theme 3.Nomadic Empires
September	Revision and Term 1/,Half Yearly Examination 2023-24
October	TERM 2 III.Changing Traditions-Introduction Timeline III (C. 1300 TO 1700) -Theme 4.The Three Orders
November	III.Changing Traditions-Theme 5.Changing Cultural Traditions IV.Paths To Modernisation -Introduction Timeline IV (C. 1700 TO 2000)
December	IV-Paths To Modernisation-Theme 6.Displacing Indigenous People
January	IV-Paths To Modernisation-Theme 7.Paths Towards Modernisation (Japan, China and Korea)
February	Project,Map work of the related themes Revision and Annual Examination
March	Annual Examination/Term 2, 2024-25

Subject: Political Science (028)

Text Book : 1. Indian Constitution at work

Subject Teacher : Binita P G

2. Political Theory

Month	Topics	
April	Constitution: Why and how? Political Theory :An introduction	
May	Rights in the Indian Constitution Freedom	Election and Representation
June	Executive	Equality
July	Summer Vacation	
August	Legislature	Social Justice
September	Half Yearly Examination	
October	Judiciary	Rights
November	Federalism	Citizenship
December	Local Governments	Nationalism
January	Constitution as a Living Document	Secularism
February	Philosophy of the Constitution	
March	Revision and Annual Examination	

Subject: Geography (029)

Book: 1. Fundamentals of Physical Geography)

Subject Tr: Debaraj Bhattacharjee

2. India, Physical Environment (Class XI)

Month	Topics
April	India – Locational Settings Geography as a Discipline <input type="checkbox"/> Geography as an integrating discipline, as a science of spatial attributes <input type="checkbox"/> Branches of Geography: Physical Geography and Human Geography
May	Physiography <input type="checkbox"/> Structure and Relief; Physiographic Divisions <input type="checkbox"/> Drainage systems: Concept of river basins, watershed; the Himalayan and the Peninsular Rivers The Earth <input type="checkbox"/> Origin and evolution of the earth <input type="checkbox"/> Interior of the earth Earthquakes and volcanoes: causes, types and effects Explain the interior structure of the earth. Explain Volcanoes, its types and volcanic landforms
June	Climate, Vegetation <input type="checkbox"/> Weather and climate - spatial and temporal distribution of temperature, Indian monsoon: mechanism, onset and withdrawal Landforms <input type="checkbox"/> Distribution of oceans and continents : Wegener's continental drift theory and plate tectonics Holiday assignment <input type="checkbox"/> World Climate and Global Concerns(To be tested through internal assessments in the form of project and presentation)
July	Summer vacation
August	Natural vegetation -forest types and distribution; wild life; conservation; biosphere reserves <input type="checkbox"/> Geomorphic processes: weathering; mass wasting; erosion and deposition; soil-formation <input type="checkbox"/> Landforms and their evolution- Brief erosional and depositional features limate
September	Hazards and Disasters: Causes, Consequences and Management <input type="checkbox"/> Floods, Cloudbursts <input type="checkbox"/> Droughts: types and impact Climate <input type="checkbox"/> Atmosphere- composition and structure; elements of weather and climate <input type="checkbox"/> Solar Radiation-Insolation-angle of incidence and distribution; heat budget of the earth heating and cooling of atmosphere (conduction, convection, terrestrial radiation and advection); temperature- factors controlling temperature; distribution of temperature- horizontal and vertical; inversion of temperature

October	Natural Hazards and Disaster □ Earthquakes and Tsunami Cyclones: features and impact □ Landslides Climate cont.... □ Atmospheric circulation and weather systems - Pressure-pressure belts; winds-planetary, seasonal and local; air masses and fronts; tropical and extra tropical cyclones
November	CLIMATE... □ Water in the atmosphere Precipitation evaporation; condensation-dew, frost, fog, mist and cloud; rainfall-types and world distribution
December	Water (Oceans) □ Basics of Oceanography □ Oceans - distribution of temperature and salinity
January	□ Movements of ocean water-waves, tides and currents; submarine reliefs Ocean Water – Salinity, Movement of Ocean Water
February	Life on the Earth □ Biosphere - importance of plants and other
March	Revision and Annual Exam

Subject : HINDI Core (302)

Subject Tr : Anil K S

Text Book :

Month	Topics
April	1. अपठित गद्यांश व पद्यांश 2. निबंध
May	1. नमक का दरोगा 2. डायरी लेखन 3. शब्दकोश
June	1. मिया नसीरुद्दीन 2. घर की याद 3. विदाई सम्भाषण
July	Summer Vacation
August	1. गलता लोहा 2. चंपा काले-काले अचर नहीं चिनती
September	पुनरीक्षण, अर्धवार्षिक परीक्षा
October.	1. भारतीय गायिका ओ मे बेजोडे-लता मंगेशकर 2. रजनी 3. गजल
November	1. जामुन का पेड़ 2. अक्क महादेवी 3. भारत माता
Dec.	1. राजस्थान की रजत बूदें 2. सबसे खतरनाक
January	1. आओ मिलकर बचाए 2. आलो-आँधरि 3. कार्यालयी पत्र 4. प्रिंट माध्यम (समाचार और संपादकीय)
Feb.	1. फीचर लेखन 2. आलेख 3. जनसंचार माध्यम
March	पुनराक्षण , सत्र वार्षिक मूल्यांकन

Subject: Psychology (037)

Subject Tr: Ananya Bezboruah

Books: Psychology XI, NCERT

Month	Topics
April	What is Psychology?
May	Method of Enquiry in Psychology
June	Human Development
July	Summer Break
August	Sensory, Attentional and Perceptual processes
September/Oct	Learning & Human memory
November	Thinking
December	Motivation & Emotion
January	Revision
February	Practical & project

Subject: Sociology (039)**Subject Tr: Debaraj Bhattacharjee**Book: 1. **INTRODUCING SOCIOLOGY**Book 2. **UNDERSTANDING SOCIETY (Class XI)**

Month	Topics
April	Book 1 Unit 1 Sociology, Society and its Relationship with other Social Sciences <input type="checkbox"/> <input type="checkbox"/> Introducing Society: Individuals and collectivities. Pluralities and Inequalities among societies. <input type="checkbox"/> <input type="checkbox"/> Introducing Sociology: Emergence. Nature and Scope. <input type="checkbox"/> <input type="checkbox"/> Relationship with other Social Sciencēdisciplines
May	Book 1 Unit 2 Terms, Concepts and their use in Sociology <input type="checkbox"/> <input type="checkbox"/> Social Groups and Society <input type="checkbox"/> <input type="checkbox"/> Social Stratification <input type="checkbox"/> <input type="checkbox"/> Status and Role <input type="checkbox"/> <input type="checkbox"/> Society & Social Control
June	Book 2 Unit 7 Social Change and Social Order in Rural and Urban Society <input type="checkbox"/> <input type="checkbox"/> Social Change: Types, Causes and Consequences <input type="checkbox"/> <input type="checkbox"/> Social Order: Domination, Authority and Law, Contestation, Crime and Violence <input type="checkbox"/> <input type="checkbox"/> Concepts: Village, Town and City <input type="checkbox"/> <input type="checkbox"/> Social Order and Social Change in Rural and Urban Areas
July	Summer vacation
August	Book 1 Unit 3 Understanding Social Institutions <input type="checkbox"/> <input type="checkbox"/> Family, Marriage and Kinship <input type="checkbox"/> <input type="checkbox"/> Work & Economic Life <input type="checkbox"/> <input type="checkbox"/> Political Institutions <input type="checkbox"/> <input type="checkbox"/> Religion as a Social Institution <input type="checkbox"/> <input type="checkbox"/> Education a a Social Institution
September	Book 2 Unit 9 Introducing Western Sociologists <input type="checkbox"/> <input type="checkbox"/> The Context of Sociology <input type="checkbox"/> <input type="checkbox"/> Karl Marx on Class Conflict
October	Cont ... <input type="checkbox"/> <input type="checkbox"/> Emile Durkheim : Division of Labour in society <input type="checkbox"/> <input type="checkbox"/> Max Weber: Interpretive Sociology, Ideal Type & Bureaucracy Book 1 Unit 4 Culture and Socialization <input type="checkbox"/> <input type="checkbox"/> Defining Culture <input type="checkbox"/> <input type="checkbox"/> Dimensions of Culture
November	Cont <input type="checkbox"/> <input type="checkbox"/> Socialization <input type="checkbox"/> <input type="checkbox"/> Agencies of Socialisation & Sociology Book 2 Unit 10 Indian Sociologists <input type="checkbox"/> <input type="checkbox"/> G.S. Ghurye on Caste and Race <input type="checkbox"/> <input type="checkbox"/> D.P. Mukherjee on Tradition and Change <input type="checkbox"/> <input type="checkbox"/> A.R. Desai on the State <input type="checkbox"/> <input type="checkbox"/> M.N. Srinivas on the Village
December	<input type="checkbox"/> cont <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> A.R. Desai on the State <input type="checkbox"/> <input type="checkbox"/> M.N. Srinivas on the Village A. Project undertaken during the academic year at school level
January	Compilation of the project work and revision Field study 1. Introduction -2 Marks 2. Statement of Purpose – 2 Marks 3. Research Question – 2 Marks 4. Methodology – 3 Marks 5. Data Analysis – 4 Marks 6. Conclusion – 2 Marks
February	Project cont _ revision
March	Revision and Annual Exam

Signature of
Subject TeachersSignature of
Academic CoordinatorSignature of
Principal