



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: 2021-2022

Subject: English Core (301)

Subject Tr: Meenakshi D & Kalpashri M

Text Book : 1. Hornbill

2. Snapshots

Month	Topics
April	
May	
June	1. Grammar: Determiners, Tenses and Transformation/Re-ordering of Sentences 2.. <i>We're Not Afraid to Die...</i>
July	Summer Vacation
August	1. Notice 3. Poster 4. Note-making and Summarising 5. <i>Discovering Tut : The Saga Continues The Address</i> 2. Advertisement
September	1. Letter to Editor 3. <i>Job Application</i> 5. <i>The Ailing Planet: The Green Movement's Role</i> Unit Test /Half-Yearly Exam. 2. <i>Ranga's Marriage</i> 4. <i>Speech / Debate</i>
October	1. Letter Placing Order 2. Letter Sending Replies (in response to placement of orders) 3. <i>Letter Registering Complaint</i> 5. <i>Albert Einstein at School</i> 4. <i>The Voice of the Rain</i> 6. <i>Mother's Day</i>
November	1. Article 3. Letter Asking for and Giving Information 5.. <i>Childhood</i> 2. Letter Making Enquiries 4. <i>The Browning Version</i>
December	1. Letter to School or College Authorities regarding Admissions, School Issues, Requirements/Suitability of Courses 2. Report Writing 3. <i>Birth</i>
January	To continue: 1. Letter to School or College Authorities regarding Admissions, School Issues, Requirements/Suitability of Courses 2. Debate 3. <i>The Laburnum Top</i>
February	1. <i>Landscape Of the Soul</i> Backlog, if any, shall be completed 2. <i>Silk Road</i>
March	Annual Exam.

Subject: Mathematics (041)

Subject Tr: Pramod K Singh

Text Book : Mathematics-XI (Text Book Part - I)

Month	Topics
April	
May	Complex number, Linear inequality
June	Trigonometry, principal of mathematical induction

July	Complex number, Linear inequality
August	Permutations and Combination, Binomial
September	Sequence and Series, Straight lines.
October	Conic Section, 3D,
November	Limit and Derivative, Mathematical Reasoning,
December	Statistics
January	Probability
February	Revision
March	Annual Exam

Subject : Chemistry (043)

Subject Tr: Nilkamal Goswami

Books : Chemistry-XI (Part - I & II)

<i>Month</i>	<i>Topics</i>	
<i>April</i>	UNIT-1.Basic Concepts of Chemistry 2. Structure of Atom. (Pre -loaded module will be shown-2 periods)	
<i>May</i>	UNIT-1.Basic Concepts of Chemistry 2. Structure of Atom. (Pre -loaded module will be shown-2 periods)	
<i>June</i>	UNIT-3.Classification of Elements and Periodicity in Properties 4. Chemical Bonding and Molecular Structure. (Pre -loaded module will be shown-2 periods)	
<i>July</i>	UNIT-3.Classification of Elements and Periodicity in Properties 4. Chemical Bonding and Molecular Structure. (Pre -loaded module will be shown-2 periods)	
<i>August</i>	UNIT- 9.Hydrogen 12.Organic Chemistry : Some Basic Peinciples (Pre -loaded module will be shown-2 periods)	10.The S-Block Elements.
<i>September</i>	Revision & First Term Assessment	
<i>October</i>	UNIT-11.Some p-block elements 12.Organic Chemistry : Some Basic Peinciples (Pre -loaded module will be shown-2 periods)	7.Equilibrium
<i>November</i>	UNIT-7. Redox Reactions (Pre -loaded module will be shown-2 periods)	13.Hydrocarbons
<i>December</i>	UNIT13. Hydrocarbons (Pre -loaded module will be shown-2 periods) 5.States of Matter	
<i>January</i>	UNIT- 6.Thermodynamics. 14. Environmental Chemistry (Pre -loaded module will be shown-2 periods)	8. Equilibrium.
<i>February</i>	Revision and Practical Examination	
<i>March</i>	Annual Exam	

Subject : Physics (042)

Subject Tr: Dikshita Saikia

Books : Physics - XI (Part - I & II)

<i>Month</i>	<i>Topics</i>
<i>April</i>	UNIT-1. Physical world and Measurement UNIT-2. Kinematics (Pre -loaded module will be shown)
<i>May</i>	UNIT-2.Kinematics. UNIT- 3.laws of Motion (Pre -loaded module will be shown)
<i>June</i>	UNIT- 3.Laws of Motion UNIT- 4. Work, Energy and Power. (Pre -loaded module will be shown)
<i>July</i>	UNIT-5. Motion of System of Particles.. (Pre -loaded module will be shown)
<i>August</i>	UNIT- 5. Motion of system of Particles UNIT- 6.Gravitati on (Pre -loaded module will be shown)
<i>September</i>	Revision & First Term Assessment UNIT- 7. Propeties of Bulk Matter
<i>October</i>	UNIT-8. Thermodynamics (Pre -loaded module will be shown)

<i>November</i>	UNIT-9 Behaviour of Perfect Gases and Kinetic Theory of Gases(Pre -loaded module will be shown)
<i>December</i>	UNIT-10 Waves and Oscillation. (Pre -loaded module will be shown)
<i>January</i>	UNIT-10 Waves and Oscillation.
<i>February</i>	Revision and Practical Examination
<i>March</i>	Annual Exam

Subject : Biology (044)

Subject Tr: Trishna Dutta

Books : Biology-XI

<i>Month</i>	<i>Topics</i>
<i>May</i>	Unit I: Diversity in the living world
<i>June</i>	Unit II: Structural organization in plants and animals.
<i>July</i>	Unit-III Cell:Structure and functions
<i>August</i>	Unit-III Cell:Structure and functions
<i>September</i>	Unit IV: Plant physiology
<i>October</i>	Unit IV: Plant physiology
<i>November</i>	Unit IV: Plant physiology Unit-V Animal physiology
<i>December</i>	Unit-V Animal physiology
<i>January</i>	Unit-V Animal physiology
<i>February</i>	Revision and Practical Examination
<i>March</i>	Annual Exam

Subject: Physical Education (048)

Subject Tr: Sanjeev Kr Sharma

Book: E-Book of Physical Education - CBSE

<i>Month</i>	<i>Topics</i>
<i>April</i>	Unit-1 Changing trends and career in Phy. Edu., Badminton
<i>May</i>	Unit-2 Olympic Value Education. Unit -3 Physical fitness, wellness and lifestyle.
<i>June</i>	Unit-4 Physical Education and sports for CWSN-Football
<i>July</i>	Unit-5 Yoga Basketball
<i>August</i>	Unit-6 Physical activity and leadership training. Table Tennis
<i>September</i>	Revision & SA-1
<i>October</i>	Unit-7 Test, measurement and evaluation. Unit-8 Fundamentals of Anatomy, Physiology and Kinesiology in sports.
<i>November</i>	Unit-9 Psychology and Sports, Lawn-Tennis
<i>December</i>	Unit-10 Training and Doping in Sports. Revision
<i>January</i>	Revision
<i>February</i>	Revision
<i>March</i>	Annual Exam

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>	-

May	Computer System & Organisation
June	Computer System & Organisation
July	Computational Thinking & Programming -1
August	Computational Thinking & Programming -1
September	Computational Thinking & Programming -1
October	Computational Thinking & Programming -1
November	Computational Thinking & Programming -1
December	Society Law and Ethics
January	Society Law and Ethics
February	Revision
March	Annual Exam

Subject: Accountancy (055)

Subject Tr: Debapriya Roysharma

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

2. Accountancy-II - NCERT/ABD

Month	Topics
April	
May	Introduction to Accounting,
June	Theory Base of Accounting
July	Recording of Transactions
August	Recording of transactions, Ledger, Trial Balance, Depreciation
September	Bills of Exchange, Rectification of Errors
October	Financial Statement of Sole Proprietorship
November	Financial Statement of Sole Proprietorship
December	Incomplete Records
January	Computers in Accounting
February	Revision, Project
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	
May	Nature and Purpose of Business
June	Forms of Business Organisations – Private
July	Forms of Business Organisations – Private
August	Forms of Business Organisations – Public, Government and Global Enterprise
September	Business Services, Emerging Modes of Business, Social Responsibility of Business and Business Ethics
October	Sources of Business Finance
November	Sources of Business Finance, Small Business
December	Internal Trade
January	International Trade
February	Revision, Project
March	Annual Exam

Subject: Informatics Practices New (065)

Subject Tr: Monjit Sonar

Text Book : Text Book for Informatics Practices- XI with Python (New Revised Revision)- Sumita Arora

Month	Topics
April	-
May	Introduction to Computer System
June	Introduction to Computer System Introduction to Python
July	Python Programming
August	Python Programming
September	Python Programming Data Handling Using NumPy
October	Data Handling Using NumPy
November	Database concepts and the Structured Query Language
December	Database concepts and the Structured Query Language
January	Introduction to Emerging Trends
February	Revision
March	Annual Exam

Subject: Economics (030)

Subject Tr : Suma Das

Text Book : 1. Statistics for Economics

2. Introductory Micro Economics - Dhanpat Rai & NCERT

Month	Topics
April	Introduction to Economics
May	Collection, Organisation and Presentation of Data Statistical tools and Interpretation (Central Tendency)
June	Statistical tools and Interpretation (Central Tendency)
July	Statistical tools and Interpretation (Central Tendency)
August	Statistical tools and Interpretation (Dispersion)
September	Statistical tools and Interpretation (Dispersion) Statistical tools and Interpretation (Correlation/Index No.) Indian Economy on the Eve of Independence
October	Introduction to Micro Economics Consumers Equilibrium and Demand
November	Producers' behavior Producers' behavior and Supply
December	Forms of Market and Price Determination
January	Forms of Market and Price Determination
February	Forms of Market and Price Determination
March	Revision and Annual Exam

Subject: History 027)

Subject Tr: Indrani Borthakur

Book: Themes in World History Textbook XI

Month	Topics
April	From the Beginning of Time
May	Writing and City Life

June	An Empire Across the Three Continents
July	The Central Islamic Lands
August	Nomadic Empires
September	The Three Orders
October	Changing Cultural Traditions
November	Confrontation of Culture
December	The Industrial Revolution
January	Displacing Indigenous People
February	Paths Towards Modernisation
March	Revision and Annual Exam

Subject: Political Science (028)

Text Book : 1. Indian Constitution at Work Textbook XI

Subject Tr : Binita P G

2. Political Theory Textbook XI

Month	Topics	
April	PT – Political Theory : an introduction	IC – Constitution, Why and How.
May	PT – Freedom	IC – Rights in the Indian Constitution
June	PT – Equality	IC – Election and Representation
July	PT – Equality	IC – Election and Representation
August	PT – Social Justice	IC - Executive
September	PT – Rights	IC - Legislature
October	PT – Citizenship	IC – Judiciary
November	PT – Nationalism	IC – Federalism
December	PT – Secularism	IC – Local Governments
January	PT – Peace	IC – Constitution as a living document
February	PT – Development	IC – Philosophy of the Indian Constitution
March	Revision and Annual Exam	

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
May	Structure of Physiography of India. The Origin of Evolution of the Earth and other bodies of the Universe. Big Bang theory and its implementation. Other theories of Origin
June	Drainage System Earth-Its interior evidence
July	Climate Seasons mechanism Earthquake, Waves, types, Endoganic landforms
August	Natural Vegetation Distribution of Ocean and Continents Minerals and Rocks
September	Soil Geomorphic process Landforms and their evolution Composition and structure

October	Natural Hazards and Disaster Solar radiation, Heat Balance and Temperature. Atmospheric circulation
November	Water in the atmosphere and World climate classification
December	Ocean Water – Salinity, Movement of Ocean Water
January	Life on the Earth
February	Biogeo – chemical cycles – Bio diversity
March	Revision and Annual Exam

Subject : HINDI (302)

Subject Tr : Anil K S

Text Book :

Month	Topics
April	1. अपठित गद्यांश व पद्यांश 2. निबंध
May	1. नमक का दरोगा 2. कबीर 3. मीरा
June	1. मिया नसीरुद्दीन 2. वे आँखे
July	1. घर की याद 2. विदाई सम्भाषण 3. गलता लोहा
August	1. चंपा काले-काले अचर नहीं चिनती 2. स्पीर्ति मे बारिश
September	1. भारतीय गायिका ओ मे बेजोड़े-लता मंगेशकर 2. रजनी 3. गज़ल
October.	1. जामुन का पेड़ 2. अक्क महादेवी 3. भारत माता
November	1. राजस्थान की रजत बूँदें 2. सबसे खतरनाक
Dec.	1. आओ मिलकर बचाए 2. आलो-आँधरि 3. कार्यालयी पत्र 4. प्रिंट माध्यम (समाचार और संपादकीय)
January	1. फीचर लेखन 2. आलेख 3. जनसंचार माध्यम
Feb.	<i>पुनराक्षण</i>
March	<i>सत्र मूल्यांकन</i>

Subject: Applied Mathematics (241)

Subject Tr : Samata C

Text Book : Mathematics-XI (Text Book Part - I)

Month	Topics
April	
May	Unit I Numbers, Quantification and Numerical Applications <ul style="list-style-type: none"> • Binary Numbers • Indices, Logarithm and Antilogarithm • Laws and properties of logarithms • Simple applications of logarithm and antilogarithm • Numerical problems on averages, calendar, clock, time, work and distance, mensuration, seating arrangement
June-July	Unit II 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 • Introduction of Sequences, Series • Arithmetic and Geometric progression • Relationship between AM and GM • Basic concepts of Permutations and Combinations • Permutations, • Combinations with standard results
August	Unit III Mathematical and Logical Reasoning <ul style="list-style-type: none"> • Mathematically acceptable statements • Connecting words/ phrases in Mathematical statement consolidating the

	<p>understanding of "if and only if (necessary and sufficient) condition", "implies", "and/or", "implied by", "and", "or", "there exists" and their use through variety of examples related to real life and Mathematics</p> <ul style="list-style-type: none"> • Problems based on logical reasoning (coding-decoding, odd man out, blood relation, syllogism etc)
September	<p>Unit IV Calculus</p> <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 <ul style="list-style-type: none"> • Domain and Range of a function
October	<p>Unit V Probability</p> <ul style="list-style-type: none"> • Random experiment, sample space, events, mutually exclusive events • Independent and Dependent Events • Law of Total Probability • Bayes' Theorem <p>Unit VI Descriptive Statistics</p> <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 • Correlation (Pearson and Spearman method of correlation) • Applications of descriptive statistics using real time data
November-December	<p>Unit VII Basics of Financial Mathematics</p> <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;
January	<p>Unit VIII Coordinate Geometry</p> <ul style="list-style-type: none"> • Straight Line • Circles
February	Revision
March	ANNUAL EXAM

Subject: Performing Art: Instrumental

Subject Tr:Tuntun Hatikakoty.

Month	Topics: Instrumental Music (Keyboard, Harmonium & Marching Drumset, Guitar, Thumba & Percussions.
May	Basic Knowledge On Keyboard, Guitar, Drumset & Percussions.
June	Unit-2 (*Basic Notes On Keyboard-CDEFGAB & C#, D#, F#, G# & A#., 3/4 (Waltz Beat) On Drumset.
July	Unit-3 Side Drums Practice (SNARE DRUM). *Marching Beats, Applying On National Anthem, & Other Marching Songs. Forms Of Major

	Chords..Song Vaande Maa Taram (Patriotic Number)With Notation. Country Songs. Indian Patriotic Numbers.
August	Unit4; Marching Beats, Applying On National Anthem,& Other Marching Songs.. (Application And Practical).And Relations Of Major Scale. Rolling System On Tom tom & On Snare Drum.
September	Unit4; Marching Beats, Applying On National Anthem,& Other Marching Songs.. (Application And Practical).And Relations Of Major Scale. Rolling System On Tom tom & On Snare Drum.
October	Half Yearly Exam
November	Unit-6 ; Introduction OF Musical Instruments. Like, Tabla, Dholok, Khol, Bihu Dhol, Unit -7. Topic: Guitar ,Mandolin ,sitar Violin etc With the help of picture. Marching Beats, Applying On National Anthem,& Other Marching Songs..Birthday Songs etc.
December	Unit-8 Guitar: Fingering on Swargam practice from C Major Scale applying Indian & Western System
January	Unit-9 Song Vaande Maataram on Guitar applying chords &Country Songs applying Guitar & Drums.
February	Unit-10 (Practical And Class Test.)
March	Revision
	<i>Annual Exam</i>

Subject: Work Education

Subject Tr: Jayanta Dhekial

Month	Topics
April	Nursery Work, Plantation, Irrigation, Grafting and Cutting
May	File cover making
June	Mat and Carpet weaving work
July	Bag design and making from old clothes
August	Welding Work (Preliminary Knowledge)
September	Revision and Half Yearly Exam.
October	Hand Embroidery (Pillow Cover / Handkerchief)
November	Jewellery making from old paper
December	First Aid (Bandaging)
January	Mask making from old paper
February	Revision and Assessment
March	Annaul Exam