



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: XII

SYLLABI FOR THE SESSION: 2021-2022

Subject: English (301)

Subject Tr: Meenakshi Duarah

Text Book : English Core - XII (Flamingo & Vistas)

Month	Topics
April	1. Drafting Invitations- Formal and Informal Replying to Invitations- Formal Acceptance & Decline and Informal Acceptance & Decline
May	1. Advertisements: Classified & Display 2. My Mother at Sixty Six 3. Debate 4. A Roadside Stand 5. Journey to the End of the Earth.
June	1. The Last Lesson 2. Lost Spring 3. Keeping Quiet 4. Report Writing: Newspaper and Magazine 5. The Interview 6. Memories of Childhood.
July	Summer Vacation
August	1. The Third Level 2. The Enemy 3. Deep Water 4. A Thing of Beauty 5. The Tiger King
September	Backlog, if any to be completed + Revision & Unit Test/Half Yearly
October	1. Drafting Job Application & Resume 2. The Rattrap 3. Aunt Jennifer's Tigers 4. Going Places.
November	1. Indigo 2. Should Wizard Hit Mommy 3. On the Face of It 4. Evans Tries an O-Level 5. Poets and Pancakes
December	Backlog, if any, to be completed + Revision + Mock Test
January	Pre- Board Examination
February	Revision
March	<i>AISSCE 2022</i>

Subject: Mathematics (041)

Subject Tr: Pramod K Singh

Text Book : Mathematics-XII (Text Book Part - I & II)

Month	Topics
April	Relation and Function, Inverse Trigonometry
May	Matrix, Determinant
June	Continuity and Differentiability
July	Application of Derivative

August	Vectors, Three Dimensions
September	Three Dimensions Cont., LPP, Probability
October	Integrals, Application of Integrals
November	Differential equation
December	Mock Test
January	Pre Board Exam
February	Practical
March	AISSCE 2022

Subject : Chemistry (043)

Subject Tr : Nilkamal Goswami

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

<i>Month</i>	<i>Topics</i>
<i>April</i>	UNIT-1. Solid State, 10.Haloalkanes and Haloarenes, 11. Alcohols, Phenols and Ethers. (Pre -loaded module will be shown-2 periods)
<i>May</i>	UNIT-2.Solutions, 11.Alcohols, Phenols and Ethers, 12. Aldehydes, Ketones and Carboxylic acids. (Pre -loaded module will be shown-2 periods)
<i>June</i>	UNIT-3. Electrochemistry, 13.Amines. (Pre -loaded module will be shown-2 periods)
<i>July</i>	UNIT-4. Chemical Kinetics. 14.Biomolecules (Pre -loaded module will be shown-2 periods)
<i>August</i>	UNIT – 5 Surface Chemistry, UNIT-6.General Principles and Isolation of elements. UNIT – 7 P-Block elements. (Pre -loaded module will be shown-2 periods)
<i>September</i>	Revision & First Term Assessment
<i>October</i>	UNIT-8.The d- and f-Block elements, 15.Polymers. (Pre -loaded module will be shown-2 periods)
<i>November</i>	UNIT-9.Coordination Compounds16.Chemistry in Everyday Life. (Pre -loaded module will be shown-2 periods)
<i>December</i>	Revision & Mock-Examination
<i>January</i>	Pre-Board exam
<i>February</i>	Practical Examination
<i>March</i>	AISSCE 2022

Subject : Physics (042)

Subject Tr: Dikshita Saikia

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

<i>Month</i>	<i>Topics</i>
<i>April</i>	UNIT-1. Electrostatics UNIT-2. Current Electricity (Pre -loaded module will be shown-1 periods)
<i>May</i>	UNIT-2. Current Electricity UNIT- 3. Magnetic Effects of current and Magnetism (Pre -loaded module will be shown-1
<i>June</i>	UNIT-3. Magnetic Effects of current and Magnetism (Pre -loaded module will be shown-1periods)
<i>July</i>	UNIT-4. Electromagnetic Induction and Alternating Currents. (Pre --loaded module will be shown-1periods)
<i>August</i>	UNIT-4. Electromagnetic Induction and Alternating Current. UNIT-6 Optics (Pre –loaded module will be shown-1periods)

<i>September</i>	Revision & First Term Academic Assessment UNIT-6 Optics (Pre –loaded module will be shown-1periods)
<i>October</i>	UNIT- 7. Dual Nature of Radiation and Matter UNIT-8 Atoms and Nuclei (Pre –loaded module will be shown-1periods)
<i>November</i>	UNIT-9 Electronic Devices UNIT-5 Electromagnetic Waves. (Pre -loaded module will be shown-1
<i>December</i>	Revision and Mock Test
<i>January</i>	Pre-Board Examination
<i>February</i>	Practical Examination
<i>March</i>	AISSCE 2022

Subject : Biology (044)

Subject Tr: Trishna Dutta

Books : Biology-XII

<i>Month</i>	<i>Topics</i>
<i>April</i>	Unit VI: Reproduction Chapter 1 :Reproduction in Organisms Chapter 2 :Sexual Reproduction in Flowering Plants
<i>May</i>	Unit VI: Reproduction Chapter 3 :Human Reproduction Chapter 4 :Reproductive Health
<i>June</i>	Unit VII: Genetics and Evolution Chapter 5: Principle of Inheritance and Variation
<i>July</i>	Unit VII: Genetics and evolution Chapter 6 : Molecular Basis of Inheritance Chapter 7: Evolution
<i>August</i>	Unit VIII: Biology and Human Welfare Chapter 8 : Human Health and Diseases Chapter 9 : Strategies for Enhancement in Food Production
<i>September</i>	Unit VIII: Chapter 10 : Microbes in Human Welfare Unit IX: Biotechnology and its Applications Chapter 11 : Biotechnology : Principles and Processes
<i>October</i>	Unit IX: Biotechnology and its Applications Chapter 12 : Biotechnology and its Applications UNIT X : Ecology and Environment Chapter 13 :Organisms and Populations
<i>November</i>	Unit X: Ecology and Environment Chapter 14 : Ecosystem Chapter 15 : Biodiversity and Conservation Chapter 16 : Environmental Issues
<i>December</i>	Revision
<i>January</i>	Revision & Mock Test
<i>February</i>	Pre Board
<i>March</i>	AISSCE 2022

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 Planning in sports. Volley Ball & Yoga
<i>May</i>	Unit-2 Sports and Nutrition. Unit-3 Yoga and Lifestyle. Basket Ball

June	Unit-4 Physical education and sports for CWSN – Throwing Events
July	Unit-5 Children and Women in sports. Football
August	Unit-6 Test and Measurement in sports – Cricket.
September	Revision & SA-1
October	Unit-7 Physiology and Injuries in sports.
November	Unit-8 Biomechanics and sports. Kho-Kho. Unit – 9 Psychology and Sports.
December	Unit-10 Training in sports. Revision
January	Revision
February	Revision
March	AISSCE 2022

Subject : Computer Science New (083)

Subject Tr: Monjit Sonar

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

<i>Month</i>	<i>Topics</i>
<i>April</i>	Database Management
<i>May</i>	Database Management Computer Networks
<i>June</i>	Computer Networks
<i>July</i>	Computational Thinking and Programming - 2
<i>August</i>	Computational Thinking and Programming - 2
<i>September</i>	Computational Thinking and Programming – 2
<i>October</i>	Computational Thinking and Programming – 2
<i>November</i>	Computational Thinking and Programming – 2
<i>December</i>	Society, Law and Ethics
<i>January</i>	Revision
<i>February</i>	Revision
<i>March</i>	AISSCE 2022

Subject: Accountancy (055)

Subject Tr: Debapriya Roysharma

Book: 1. Accountancy-I - NCERT/ABD

2. Accountancy-II - NCERT/ABD

Month	Topics
April	Accounting for Non Profit Organisations
May	Partnership Firm -Fundamentals -Admission of a partner -Retirement of a partner
June	Partnership Firm -Death of a partner -Dissolution of a firm
July	Company -Issue of shares
August	Company -Issue of shares (Pro Rata) -Forfeiture of shares -Presentation of share capital in the Balance Sheet
September	Company -Issue of Debentures
October	Company

November	Analysis of Financial Statements -Ratio Analysis -Comparative Statements -Cash Flow Statements -Project
December	Revision and Mock Test
January	Revision and Preboard + Practical exams
February	Revision and Preboard 2
March	AISSCE-2022

Subject: Business Studies (054)

Subject Tr: Debapriya Roysharma

Book: Text Book for Business Studies XII - NCERT/VK

Month	Topics
April	Nature & Significance of Management, Principles of Management – Administrative
May	Principles of Management – Scientific, Business Environment
June	Planning, Organising
July	Staffing
August	Directing, Controlling
September	Financial Management Financial Planning
October	Financial Market, Marketing Management
November	Consumer Protection, Project
December	Revision and Mock Test
January	Revision and Preboard + Practical exams
February	Revision and Preboard 2
March	AISSCE-2022

Subject: Informatics Practices New (065)

Subject Tr: Monjit Sonar

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

Month	Topics
April	Database Query using SQL
May	Database Query using SQL Introduction to Computer Networks
June	Introduction to Computer Networks Societal Impacts
July	Data Handling using Pandas and Data Visualization
August	Data Handling using Pandas and Data Visualization
September	Data Handling using Pandas – II
October	Data Handling using Pandas – II
November	Data Visualization
December	Data Visualization
January	Revision
February	Revision
March	AISSCE 2021

Subject: Economics (030)

Subject Tr : Suma Das

1. Macro Economics - Dhanpat Rai & NCERT

2. Indian Economic Development - Dhanpat Rai & NCERT

Month	Topics
April	National Income and Related Aggregates
May	National Income and Related Aggregates (Contd.....) Money and Banking
June	Determination of Income and Employment Government Budget and the Economy
July	Balance of Payment
August	Balance of Payment (Contd.....) Indian Economy – 1950 – 1990, LPG etc.
September	Indian Economy – 1950 – 1990, LPG etc. (Contd.....) Current Challenges facing the Indian Economy Poverty, Human Capital formation, Rural Development
October	Current Challenges facing the Indian Economy (Employment, Infrastructure, Environment)
November	Current Challenges facing the Indian Economy (Sustainable Development)
December	Revision and Mock Test
January	Revision and Preboard + Practical exams
February	Revision and Preboard 2
March	AISSCE-2022

Subject: History 027)

Subject Tr : Indrani Borthakur

Book: 1.Themes in History Part I,II,III (Latest Ed.)

Month	Topics
April	Bricks, Beads and Bones Kings, Farmers and Towns
May	Kinship, Caste and Class Thinkers, Beliefs and Buildings
June	Through the Eyes of Travellers
July	Bhakti and Sufi Traditions
August	An Imperial Capital Vijayanagara
September	Peasants, Zaminders and The State, Kings and Chronicles
October	Colonialism and the Countryside Rebels and the Raj, Colonial Cities
November	Mahatma Gandhi and The Nationalist Movement, Understanding Partition Framing the Constitution
December	Revision and Mock Test
January	Revision and Preboard + Practical exams
February	Revision and Preboard 2
March	AISSCE-2022

Subject: Political Science (028)

Subject Tr : Binita P G

Text Book : 1. Contemporary World Politics

2. Politics in India since Independence

Month	Topics
April	PII – Challenges of Nation Building CWP – The Cold War Era
May	PII – Era of One Party Dominance CWP – The End of Bipolarity
June	PII – Politics of Planned Development CWP - US Hegemony in World Politics
July	PII – Politics of Planned Development CWP - US Hegemony in World Politics
August	PII – India's External Relations, Challenges to and Restoration of Congress CWP – Alternative Centres of Power Contemporary South Asia

September	PII – The Crisis of Democratic Order	CWP - International Organisation
October	PII – Rise of Popular Movements	CWP – Security in the Contemporary World
November	PII – Regional Aspiration, Recent Developments	CWP - Environment and Natural Resources, Globalisation
December	Revision and Mock Test	
January	Revision and Preboard + Practical exams	
February	Revision and Preboard 2	
March	AISSCE-2022	

Subject: Geography (029)

Subject Tr: Debaraj Bhattacharjee

Book: 1. Fundamentals of Human Geography (Latest Edition) - NCERT

2. India-People and Economy (Latest Edition) - NCERT

3. Practical Work in Geography -II (Latest Edition) - NCERT

Month	Topics
April	Human Geography : Nature & Scope. The World population distribution. Density and growth – Demographic transition Theory. Population Composition Human Development – Economy & Approaches
May	Primary Activity Secondary Activity
June	Tertiary Activity, Transport and Communication, International Trade, Human settlement
July	Population : Distribution, Growth and Composition, Migration, Type, Causes & consequences. Human Development in India
August	Human Settlement Land Resources & Agriculture Water Resources – Case Studies
September	Mining and Energy Resources Manufacturing Industries Planning and Sustainable Development in Indian Context
October	Transport & Communication in India International Trade
November	Geographic perspective on Selected Issues and problem (Solving/Solution)
December	Revision and Mock Test
January	Revision and Preboard + Practical exams
February	Revision and Preboard 2
March	AISSCE-2022

Subject : HINDI Core (302)

Subject Tr : Anil K S

Text Book : 1. Aaroh- 2 – NCERT

2. Vitaan – 2

3. अभिव्यक्ति और माध्यम - NCERT

Month	Topics
April	1. आत्मपरिचय एक गीत। 2. पतंग 3. भक्तिन
May	1. बाज़ार दर्शन 2. कविता के बहाने, बात सीधी थी पर 3. काले मेघा पानी दे 4. सिल्वर बैडिंग
June	1. कैमरों में बंद अपाहिज 2. सहर्ष स्वीकारा है 3. पहलवान की ढोलक, कार्यालयी पत्र

July	1. उषा 2. चार्ली चैप्लिन यानी हम सब
August	1. कवितावली 2. नमक 3. जूझ 4. रुबाइयाँ, गज़ल 5. निबंध
September	1. शिरीष के फूल 2. छोटा मेरा खेत, बगुला के पंख 3. अतीत में दबै पाँव 4. आलेख
October.	1. श्रम विभाजन और जाति प्रथा, मेरी कल्पना का आदर्श समाज 2. डायरी का पन्नें 3. फीचर लेखन 2.
November	1. जनसंचार माध्यम 2. अपठित गद्यांश व पद्यांश
Dec.	मॉक मूल्यांकन
January	प्रि-बोर्ड मूल्यांकन
Feb.	<i>पुनरीक्षण</i>
March	<i>बोर्ड परीक्षा</i>

Subject: Applied Mathematics (241)

Subject Tr: Samata C

Text Book : Mathematics-XII (Text Book Part - I & II)

Mathematics-XII R.D Sharma

Month	Topics
April	Unit 2 Matrices and determinants <ul style="list-style-type: none"> • A solution of simultaneous linear equations using the elimination method (up to 3 variables) • Matrices and types of matrices • Algebra of matrices • Determinants • The inverse of a matrix • Cramer's rule and its application • Simple applications of matrices and determinants including Leontief input-output model for two variables
May	Unit I Numbers, Quantification and Numerical Applications
June-July	Unit 3 Differentiation and its applications Integration and its applications Differential Equations and Modeling <ul style="list-style-type: none"> • Application of derivatives • Increasing/Decreasing functions • Maxima and Minima • Marginal cost and marginal revenue using derivatives • Integration • Indefinite integral as a family of curves • • Definite integral as area under the curve • Integration of simple algebraic functions (primitive, by substitution, by parts) • Application of Integration (consumer surplus-producer surplus) • The differential equation (definition, order, degree) • Formulating and solving a linear differential equation • Application of differential equation (Growth and Decay Model)
August	Unit 3 Differentiation and its applications (CONTD) Integration and its applications Differential Equations and Modeling
September	Unit 4 Probability

	<ul style="list-style-type: none"> • Probability Distribution • Mathematical Expectation • Variance • Binomial Distribution • Poisson distribution • Normal distribution • Basic applications and inference <p>Unit 5 INFERENCE STATISTICS</p> <ul style="list-style-type: none"> • Population and sample • Parameter, statistic, and statistical inferences • The t-Test (one-sample t-test and two independent groups t-test)
October	<p>Unit 6 INDEX NUMBERS AND TIME BASED DATA</p> <ul style="list-style-type: none"> • Index numbers use of index numbers • Construction of index numbers (simple and weighted) • Tests of the adequacy of index numbers (unit test and time-reversal test) • Time series, Time series analysis for univariate data sets • Trend analysis by moving average method • Trend analysis by the fitting of linear trend line using the least squares <p>Unit 7 FINANCIAL MATHEMATICS</p> <ul style="list-style-type: none"> • Perpetuity, Sinking funds • Valuation of Bonds (Present value approach and Relative price approach) • Calculation of EMI • Calculation of returns, nominal rate of return, effective rate of interest • The compound annual growth rate • Stock, shares, and debentures • Linear method of depreciation
November-December	<p>UNIT - 8 LINEAR PROGRAMMING</p> <ul style="list-style-type: none"> • Introduction and related terminologies (constraints, objective function, optimization) • A mathematical formulation of linear programming problems • Different types of linear programming problems (Transportation and assignment problem) • Graphical method of solution for problems in two variables • Feasible and infeasible regions (bounded and unbounded) • Feasible and infeasible solutions, optimal feasible solutions (up to three nontrivial constraints)
January	Revision
February	Revision

Subject: Performing Art : Instrumental**Subject Tr :Tuntun Hatikakoty**

Month	Topics: Instrumental Music (Keyboard, Harmonium & Marching Drumset, Guitar, Thumba & Percussions.
April	Basic Knowledge On Keyboard, Guitar, Drumset & Percussions.
May	Unit-2 (*Basic Notes On Keyboard-CDEFGAB & C#, D#, F#, G# & A#, 3/4 (Waltz Beat) On Drumset.
June	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.
July	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.
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	Half Yearly Exam
October	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.
November	Unit-8 Guitar: Fingering on Swargam practice from C Major Scale applying Indian & Western System.
December	Unit-9 Song Vaande Maataram on Guitar applying chords & Country Songs applying Guitar & Drums.
January	Unit-10 (Practical And Class Test.)
February	Revision
March	<i>Annual Exam 2022</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	Annual Exam