



DELHI PUBLIC SCHOOL, JALANDHAR

SYLLABUS BREAK UP

CLASS – XI

SUBJECT – ENGLISH

SESSION – 2021-22

Serial Number	Term I
1.	Reading Comprehension: <ul style="list-style-type: none">• Unseen passage (factual, descriptive or literary/ discursive or persuasive)• Case Based Unseen (Factual) Passage
2.	<u>Short Writing Task</u> Notice Writing <u>Long Writing Tasks</u> <ul style="list-style-type: none">• Business or Official Letters(Making enquiries, registering complaints, asking for or giving information, placing orders and sending replies)• Speech
3.	<u>Grammar</u> <ul style="list-style-type: none">• Determiners• Tenses• Re-ordering of Sentences
4.	Literature: <u>Book-Hornbill:</u> <ul style="list-style-type: none">• The Portrait of a Lady (<i>Prose</i>)• A Photograph (<i>Poem</i>)• “We’re Not Afraid to Die... if We Can All Be Together” (<i>Prose</i>)• Discovering Tut: the Saga Continues• The Laburnum Top (<i>Poem</i>)• Landscape of the Soul (<i>Prose</i>) <u>Book-Snapshots:</u> <ul style="list-style-type: none">• The Summer of the Beautiful White Horse(<i>Prose</i>)• The Address (<i>Prose</i>)• Ranga’s Marriage (<i>Prose</i>)
5.	ASL

Serial Number	Term II Chapter Name
1.	<p>Reading Comprehension:</p> <ul style="list-style-type: none"> • Unseen passage (factual, descriptive or literary /discursive or persuasive) • Unseen passage for Note Making and Summarising
2.	<p><u>Short Writing Tasks</u></p> <ul style="list-style-type: none"> • Posters <p><u>Long Writing Tasks</u></p> <ul style="list-style-type: none"> • Official Letters: e.g. to school/college authorities (regarding admissions, school issues, requirements / suitability of courses) • Debate
3.	<p><u>Grammar</u></p> <ul style="list-style-type: none"> • Determiners • Tenses • Re-ordering of Sentences •
4.	<p>Literature:</p> <p><u>Book-Hornbill:</u></p> <ul style="list-style-type: none"> • The Voice of the Rain (Poem) • The Ailing Planet: The Green Movement's Role (<i>Prose</i>) • The Browning Version(Play) • Childhood (Poem) • Silk Road (Prose) <p><u>Book-Snapshots:</u></p> <ul style="list-style-type: none"> • Albert Einstein at School (Prose) • Mother's Day (Play) • Birth (Prose)
5.	ASL

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SYLLABUS BREAK UP

CLASS – XI

SUBJECT – PHYSICS

SESSION – 2021-22

PRACTICALS Syllabus for TERM I

The record, to be submitted by the students, at the time of their First term examination, has to include: Record of at least 4 Experiments, to be performed by the students Record of at least 3 Activities [with 3 each from section A and section B], to be demonstrated by teacher.

Time Allowed: One and half hours

Chapter Number	Term I Chapter Name
1.	Physical World
2.	Units and Measurements
3.	Motion in a Straight Line
4.	Motion in a Plane
5.	Laws of Motion
6.	Work, Energy and Power
7.	System of Particles and Rotational Motion
8.	Gravitation

Max. Marks: 30

Two experiments one from each section 8Marks

Practical record (experiment and activities) 2

Marks Viva on experiments, and activities 5 Marks

Total 15 Marks

Experiments

1. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Calipers and hence find its volume
2. To measure diameter of a given wire and thickness of a given sheet using screw gauge. OR To determine volume of an irregular lamina using screw gauge
3. To determine radius of curvature of a given spherical surface by a spherometer.
4. To determine the mass of two different objects using a beam balance.
5. To find the weight of a given body using parallelogram law of vectors.
6. Using a simple pendulum, plot its L-T² graph and use it to find the effective length of second's pendulum. OR To study variation of time period of a simple pendulum of a given length by taking bobs of same size but different masses and interpret the result.
7. To study the relationship between force of limiting friction and normal reaction and to find the co-efficient of friction between a block and a horizontal

surface. OR To find the downward force, along an inclined plane, acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination θ by plotting graph between force and $\sin \theta$

Activities

1. To make a paper scale of given least count, e.g., 0.2cm, 0.5 cm.
2. To determine mass of a given body using a metre scale by principle of moments.
3. To plot a graph for a given set of data, with proper choice of scales and error bars.
4. To measure the force of limiting friction for rolling of a roller on a horizontal plane.
5. To study the variation in range of a projectile with angle of projection.
6. To study the conservation of energy of a ball rolling down on an inclined plane (using a double inclined plane).
7. To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time.

Chapter Number	Term II Chapter Name
9.	Mechanical Properties of Solids
10.	Mechanical Properties of Fluids
11.	Thermal Properties of Matter
12.	Thermodynamics
13.	Kinetic Theory
14.	Oscillations
15.	Waves

Class XI Syllabus for TERM II

The record, to be submitted by the students, at the time of their annual examination, has to include: Record of at least 4 Experiments, to be performed by the students
Record of at least 3 Activities [with 3 each from section A and section B], to be demonstrated by teacher.

Time Allowed: One and half hours

Max. Marks: 30

Two experiments one from each section 8Marks

Practical record (experiment and activities) 2Marks

Viva on experiments, and activities 5 Marks

Total 15 Marks

Experiments.

1. To determine Young's modulus of elasticity of the material of a given wire. OR To find the force constant of a helical spring by plotting a graph between load and extension
2. To study the variation in volume with pressure for a sample of air at constant temperature by plotting graphs between P and V, and between P and $1/V$.
3. To determine the surface tension of water by capillary rise method. OR To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.
4. To study the relationship between the temperature of a hot body and time by plotting a cooling curve.

5. To determine specific heat capacity of a given solid by method of mixtures.
6. To study the relation between frequency and length of a given wire under constant tension using sonometer. OR To study the relation between the length of a given wire and tension for constant frequency using sonometer.
7. To find the speed of sound in air at room temperature using a resonance tube by two resonance positions.

Activities

1. To observe change of state and plot a cooling curve for molten wax.
2. To observe and explain the effect of heating on a bi-metallic strip.
3. To note the change in level of liquid in a container on heating and interpret the observations.
4. To study the effect of detergent on surface tension of water by observing capillary rise.
5. To study the factors affecting the rate of loss of heat of a liquid.
6. To study the effect of load on depression of a suitably clamped metre scale loaded at (i) its end (ii) in the middle.
7. To observe the decrease

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SYLLABUS BREAK UP CLASS – XI SUBJECT – CHEMISTRY SESSION – 2021-22

Chapter Number	Term I Chapter Name
1.	Some basic concepts of chemistry
2.	Structure of Atom
3.	Classification of elements and periodicities
4.	Chemical bonding and Molecular structure
8.	Redox Reactions
9.	Hydrogen
12.	Organic Chemistry: Some basic principles and Techniques

S. No.	Practical	Marks
1.	Volumetric Analysis	8
2.	Content based experiment	2
3.	Class record, Practical file and viva	5

Volumetric analysis:

- 1) Preparation of standard solutions of oxalic acid and sodium carbonate.
- 2) Determination of strength of given solution of NaOH by titrating it against standard oxalic acid solution.
- 3) Determination of strength of given solution of HCl by titrating it against standard sodium carbonate solution.

Content based:

Determination of melting and boiling points of an organic compound.

Chapter Number	Term II Chapter Name
5.	States of matter: Gases and Liquids
6.	Chemical thermodynamics
7.	Equilibrium
10.	s-Block elements
11.	p-Block elements
13.	Hydrocarbons

PRACTICALS Syllabus for TERM II

S. No.	Practical	Marks
1.	Qualitative Analysis	8
2.	Content based experiment	2
3.	Project work and viva	5

Qualitative analysis:

a) Determination of an anion and a cation:

Cations: Pb^{2+} , Cu^{2+} , As^{3+} , Al^{3+} , Fe^{3+} , Mn^{2+} , Ni^{2+} , Zn^{2+} , Co^{2+} , Ca^{2+} , Sr^{2+} , Ba^{2+} , Mg^{2+} , NH_4^+

Anions: CO_3^{2-} , S^{2-} , NO_2^- , SO_3^{2-} , SO_4^{2-} , NO_3^- , Cl^- , Br^- , I^- , PO_4^{3-} , $\text{C}_2\text{O}_4^{2-}$, CH_3COO^-

b) Detection of Nitrogen, Sulphur and Chlorine in organic compounds.

Content based:

Crystallization of impure sample of any one – Alum, Copper Sulphate, Benzoic Acid.

Projects scientific investigations involving laboratory testing and collecting information from other sources.

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SYLLABUS BREAK UP

CLASS – XI

SUBJECT – MATHEMATICS

SESSION – 2021-22



Chapter Number	Term I Chapter Name
1	Sets
2	Relations & Functions
5	Complex Numbers and Quadratic Equations
9	Sequences and Series
10	Straight Lines
14	Limits
15	Statistics

Chapter Number	Term II Chapter Name
3	Trigonometric Functions
6	Linear Inequalities
7	Permutations and Combinations
11	Conic Sections
12	Introduction to Three- dimensional Geometry
14	Derivatives
16	Probability

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SYLLABUS BREAK UP

CLASS – XI

SUBJECT – BIOLOGY

SESSION – 2021-22



Recommended Book-NCERT

TERM I

Unit	Unit & Chapter No
I	Diversity of Living Organisms: Chapter - 1, 2, 3 and 4
II	Structural Organization in Plants and Animals: Chapter – 5 and 7
III	Cell: Structure and Function: Chapter – 8 and 9

A. List of Experiments

1. Study and describe a locally available common flowering plant, from any one family: Solanaceae or Liliaceae (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).
2. Study of osmosis by Potato osmometer.

B. Study/Observation of the following (spotting):

B.1 Parts of a compound microscope.

B.2 Specimens/slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen.

B.3 Virtual specimens/slides/models and identifying features of - Amoeba, Hydra, liverfluke, Ascaris, leech, earthworm, prawn, silkworm, honeybee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.

TERM II

Unit	Unit & Chapter Name
III	Cell: Structure and Function: Chapter - 10
IV	Plant Physiology: Chapter - 13, 14 and 15
V	Human Physiology: Chapter – 17, 18, 19, 20, 21 and 22

A. List of Experiments

3. Separation of plant pigments through paper chromatography.
4. Study of distribution of stomata in the upper and lower surfaces of leaves.
5. Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.
6. Test for presence of sugar in urine.
7. Test for presence of albumin in urine.

B. Study/Observation of the following (spotting):

B.4 Tissues and diversity in shape and size of animal cells (squamous epithelium, smooth, skeletal and cardiac muscle fibres and mammalian blood smear) through temporary/permanent slides.

B.5 Mitosis in onion root tip cells and animal cells (grasshopper) from permanent slides.

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SYLLABUS BREAK UP

CLASS – XI

SUBJECT – ACCOUNTANCY

SESSION – 2021-22



TERM I

UNIT NO.	UNITS
1	<ul style="list-style-type: none">• Introduction to Accounting• • Accounting- concept, objectives, advantages and limitations, types of accounting information; users of accounting information and their needs. Qualitative Characteristics of Accounting Information. Role of Accounting in Business.
2	<ul style="list-style-type: none">• • Basic Accounting Terms- Business Transaction, Capital, Drawings. Liabilities (Non Current and Current). Assets (Non Current, Current); Fixed assets (Tangible and Intangible), Expenditure (Capital and Revenue), Expense, Income, Profit, Gain, Loss, Purchase, Sales, Goods, Stock, Debtor, Creditor, Voucher, Discount (Trade discount and Cash Discount)
3	<ul style="list-style-type: none">• Theory Base of Accounting • Fundamental accounting assumptions: GAAP: Concept
4	<ul style="list-style-type: none">• • Business Entity, Money Measurement, Going Concern, Accounting Period, Cost Concept, Dual Aspect, Revenue Recognition, Matching, Full Disclosure, Consistency, Conservatism, Materiality and Objectivity
5	<ul style="list-style-type: none">• • System of Accounting. Basis of Accounting: cash basis and accrual basis.
6	<ul style="list-style-type: none">• • Accounting Standards: Applicability in IndAS
7	<ul style="list-style-type: none">• • Goods and Services Tax (GST): Characteristics and Objective
8	<ul style="list-style-type: none">• Recording of Business Transactions • Voucher and Transactions: Source documents and Vouchers, Preparation of Vouchers, Accounting Equation Approach: Meaning and Analysis, Rules of Debit and Credit.
9	<ul style="list-style-type: none">• • Recording of Transactions: Books of Original After going through this Unit, the students will be able to: • explain the concept of accounting equation and appreciate that every transaction affects either both the sides of the equation or a positive effect on one item and a negative effect on another item on the same side of Entry- Journal
10	<ul style="list-style-type: none">• • Special Purpose books: • Cash Book: Simple, cash book with bank column and petty cashbook • Purchases book • Sales book • Purchases return book • Sales return book Note: Including trade discount, freight and cartage expenses for simple GST calculation
11	<ul style="list-style-type: none">• • Ledger: Format, Posting from journal and subsidiary books, Balancing of accounts Bank Reconciliation Statement
12	<ul style="list-style-type: none">• :• Need and preparation. Depreciation, Provisions and Reserves • Depreciation: Concept, Features, Causes, factors • Other similar terms: Depletion and Amortisation

	<ul style="list-style-type: none"> • Methods of Depreciation: i. Straight Line Method (SLM) ii. Written Down Value Method (WDV) Note: Excluding change of method • Difference between SLM and WDV; Advantages of SLM and WDV • Accounting treatment of depreciation i. Charging to asset account ii. Creating provision for depreciation/accumulated depreciation account • Provisions and Reserves: Difference • Types of Reserves: i. Revenue reserve ii. Capital reserve iii. General reserve iv. Specific reserve accounting equation. • explain the effect of a transaction (increase or decrease) on the assets, liabilities, capital, revenue and expenses. • appreciate that on the basis of source documents, accounting vouchers are prepared for recording transaction in the books of accounts. • describe the method of recording transactions other than cash transactions as per their nature in different subsidiary books . • appreciate that at times bank balance as indicated by cash book is different from the bank balance as shown by the pass book / bank statement and to reconcile both the balances, bank reconciliation statement is prepared.
13	<ul style="list-style-type: none"> • Bank reconciliation statement.

TERM II

14	<ul style="list-style-type: none"> • Accounting for Bills of Exchange
15	<ul style="list-style-type: none"> • Trial balance
16	<ul style="list-style-type: none"> • Financial Statements of Sole Proprietorship
17	<ul style="list-style-type: none"> • Preparation. Adjustments in preparation of financial statements
18	<ul style="list-style-type: none"> • Accounting of incomplete records
19	<ul style="list-style-type: none"> • Computers in Accounting

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CLASS – XI

SUBJECT – BUSINESS STUDIES

SESSION – 2021-22



Book: NCERT- Business Studies: Text book for Class XI

Unit No.	TERM I Unit Name
PART- A	FOUNDATIONS OF BUSINESS
1	Evolution and Fundamentals of Business
2	Forms of Business Organisations
3	Public, Private and Global Enterprises
4	Business Services
5	Emerging Modes of Business
6	Social Responsibility of Business and Business Ethics

Unit.NO	TERM II Unit Name
PART- B	FINANCE AND TRADE
7	Sources of Business Finance
8	Small Business and Entrepreneurship Development
9	Internal Trade
10	International Business

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CLASS – XI

SUBJECT – ECONOMICS

SESSION – 2021-22



Book: T.R. Jain, V.K. Publications

S.NO	TERM I MCQ based Chapter Number & Name
	PART A- STATISTICS FOR ECONOMICS
1	Ch-1 Concept of Economics
2	Ch-2 Collection of data
3	Ch-3 Census and sample method of collecting data
4	Ch-4 Organisation of data
5	Ch-5 Presentation of data
6	Ch-6 Diagrammatic presentation of data
7	Ch-7 Frequency diagrams
8	Ch -8 Arithmetic Line Graphs
9	Ch-9 Arithmetic Mean
10	Ch10-Measures of central tendency-Median and Mode
	PART B-MICROECONOMICS
1	Ch-1 Economics and economy
2	Ch-2 Central Problems of the economy
3	Ch-3 Consumer's Equilibrium-Utility Analysis
4	Ch-4 Consumer's Equilibrium-IC Analysis
5	Ch-5 Theory of Demand
6	Ch-6 Price Elasticity of Demand

S.NO	TERM II SUBJECTIVE QUESTION PAPER Chapter Number & Name
	PART A -STATISTICS FOR ECONOMICS
1	Ch-11 Measures of Dispersion
2	Ch-12 Correlation
3	Ch-13 Index Numbers
	PART B-MICROECONOMICS
1	Ch7-Production Function
2	Ch 8-Concepts of cost
3	Ch9-Concept of Revenue
4	Ch11-Theory of Supply
5	Ch12-Forms of markets
6	Ch13- Market Equilibrium under perfect competition

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CLASS – XI

SUBJECT – PSYCHOLOGY

SESSION – 2021-22



Book: Text Book of Psychology – NCERT

S.NO	TERM I
1	Chapter-1, What is Psychology?
2	Chapter-2, Methods of Enquiry in Psychology.
3	Chapter-3, The Basis of Human Behaviour.

S.NO	TERM II
1	Chapter-4, Human Development.
2	Chapter-5, Sensory, Attentional and Perceptual Processes.
3	Chapter-6, Learning.
4	Chapter-7, Human Memory.

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SYLLABUS BREAK UP

CLASS – XI

SUBJECT – APPLIED MATHEMATICS

SESSION – 2021-22



Unit Number	Term I Unit Name
I	Numbers, Quantification and Numerical Applications
II	Algebra (Sets, Relations, Sequences and Series)
III	Mathematical Reasoning
IV	Calculus (Functions)
VI	Descriptive Statistics

Unit Number	Term II Unit Name
II	Algebra (Permutations and Combinations)
IV	Calculus (Limits and Continuity, Differentiation)
V	Probability
VII	Basics of Financial Mathematics
VIII	Coordinate Geometry

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SYLLABUS BREAK UP

CLASS – XI

SUBJECT – PHYSICAL EDUCATION

SESSION – 2021-22



BOOK-S.P. TEXT BOOK ON PHYSICAL EDUCATION

Chapters Term-I
<ul style="list-style-type: none">• Changing trends and career in physical education• Olympic value education
<ul style="list-style-type: none">• Physical fitness, wellness and life style• Physical education and sports CWSN (children with special needs)
<ul style="list-style-type: none">• Yoga• Physical activity and leadership training
Term -II
<ul style="list-style-type: none">• Test, measurement and evaluation• Fundamental of anatomy, physiology and kinesiology in sports
<ul style="list-style-type: none">• Psychology in sports• Training in sports

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CLASS – XI

SUBJECT – COMPUTER SCIENCE

SESSION – 2021-22



Book: Computer Science with Python(Preeti Arora)

S.NO	TERM I Chapter Number & Name
1	Chapter 1- Computer System Organization
2	Chapter 2- Data Representation and Boolean logic
3	Chapter 3- Emerging Trends
4	Chapter 4- Computational Thinking and getting started with python
5.	Chapter 5- Python Programming Fundamentals
6.	Chapter 6- Conditional and looping constructs
7.	Chapter 7- Strings in Python

S.NO	TERM II Chapter Number & Name
1	Chapter 8- Lists in python
2	Chapter 9- Tuples and Dictionary
3	Chapter 10- Introduction to python modules
4	Chapter 11-Society law & ethics
5	Chapter 12 -Cyber Ethics

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SYLLABUS BREAK UP

CLASS – XI

SUBJECT – MUSIC

SESSION – 2021-22



TERM I TOPICS

THEORY

1. Definition: Nada, Shruti, swar, Saptak.
2. Brief History of Raga And Khayal.
3. Brief study of Musical Elements Natya Shastra.
4. TAAL: kehrawataal , Teentaal , Ektaal along with ekgundugun , chuagun, notation with description.
5. Recognize the ragas from phrases of swaras and elaborating them. Bihag, Bhairav

PRACTICAL

1. One Vilambit Khayal with simple alaap and taan. prescribed Ragas Bihag , Bhairav
2. One drut khayal with simple few tanas Bihag and Bhairav.
3. Taals : kehrawataal , teentaal, and Ektaal with hand moments .
4. Ability to recognize the ragas from the sawar rendered by the examiner.
5. Practical file.

TERM II TOPIC

THEORY

1. DEFINITIONS: Thaata , Laya , Jati, Margi, Deshi
2. Brief study of Dhrupad and Trana
3. Life sketch : Tansen, V. N. Bhatkhande, V. D. Paluskar.
4. Knowledge of tuning of the Tanpura.
5. Writing notation of following raga : Bihag , Bhairav.
Taalchaurtaal with description and notation ekgundugun

PRACTICAL

1. Drut Khayal Of Raga Bihag with few alaap and tanas.
2. One dhamar of any raga Bhairav.
3. One Devotional song.
4. Tuning of tanpura questions regarding.
5. Ability to recognize the prescribed ragas. (Practical File)

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SYLLABUS BREAK UP

CLASS – XI

SUBJECT – PAINTING

SESSION – 2021-22



TERM1-15 MARKS

Chapter Number	Term I Chapter Name
1	Pre historic rock Painting
2	Indus valley civilization
3	Ajanta art

PRACTICAL Syllabus for TERM I

Time Allowed: Three hours for each paper with the gap of 15 minutes

Max. Marks :35

(i) Simple exercises of basic design in variation of geometric and rhythmic shapes in geometrical and decorative designs and colours to understand designs as organised visual arrangements.

10 Marks

(ii) Sketches from life and nature 15 Marks

Portfolio Assesment 10 Marks

- Record of the Term, performance from sketch to finished product
- Selected work of paintings composition done during the Term
- Selected works of paintings done during the Term

TERM-II 15 MARKS

BOOK: HISTORY OF INDIAN ART-12

Chapter Number	Term II Chapter Name
1	Intro to Miniature painting
2	Rajasthani school
3.	Pahari school
4	Mughal school
5	Deccan school

PRACTICAL Syllabus for TERM II

Time Allowed: Three hours for each paper with the gap of 15 minutes

Max. Marks :35

(i) Simple exercises of basic design in variation of geometric and rhythmic shapes in geometrical and decorative designs and colours to understand designs as organised visual arrangements. 10 Marks

(ii) Sketches from life and nature 15 Marks

Portfolio Assessment 10 Marks

- a) Record of the Term, performance from sketch to finished product
- b) Selected work of paintings composition done during the Term
- c) Selected works of paintings done during the Term