



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XI		Section: C		Subject: ACCOUNTANCY (055)		Name of the Teacher: MAYANK ARORA	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
Module	From	To					
I	17/04/2023	28/04/2023	10	Chapter-1 (Introduction to Accounting) <ul style="list-style-type: none"> • Definition of Accounting, Characteristics, Objectives, Advantages, Limitations of Accounting; Process of Accounting and Branches of Accounting. • Difference between Accounting and Book-Keeping. • Users of Accounting Information. Chapter – 2 (Basic Accounting Terms) <ul style="list-style-type: none"> • Capital, Liability, Assets, Revenue, Expense, Income, Debtors, Creditors, Bad Debts, Expense Outstanding, Prepaid Expense, Accrued Income, Income Received in Advance, Bills Receivables, Bills Payables, Interest on Drawings, Interest on Capital, Entity, Drawings, Purchases, Sales, Purchases Returns, Sales Returns, etc. 	<ul style="list-style-type: none"> • Students will be able to understand the meaning of Accounting. • Students will be able to understand the objectives, limitations, advantages, process, branches of Accounting. • They will understand the difference between Book- Keeping and Accounting. • They will understand how accounting information is useful for internal and external users of Accounting. • They will understand the different terms which are generally used in Accounting like Capital, Liability, Assets, Revenue, Expense, Income, Debtors, Creditors, Bad Debts, Expense Outstanding, Prepaid Expense, Accrued Income, Income Received in Advance, Bills Receivables, Bills Payables, Interest on Drawings, Interest on Capital, Entity, Drawings, Purchases, Sales, Purchases Returns, Sales Returns. 	<p>PPTs will be shown which will enable the students in better understanding of the meaning of different accounting terms and the basics of Accounting.</p>	



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II	01/05/2023	26/05/2023	19	<p>Chapter – 3 (Theory Base of Accounting, Accounting Standards, and Indian Accounting Standards)</p> <ul style="list-style-type: none">● Business Entity Concept, Dual Aspect Concept and Money Measurement Concept, Accrual Assumption, Going Concern Assumption, Consistency Assumption, Accounting Period Principle, Materiality Concept, Full Disclosure Principle, Prudence Concept, Historical Cost Concept, Revenue Recognition Concept, Matching Concept, Verifiable Objective Concept, and Indian Accounting Standards and Ind-Accounting Standards <p>Chapter – 4 (Bases of Accounting)</p> <ul style="list-style-type: none">● Accrual Bases of Accounting● Cash Bases of Accounting● Advantages and Disadvantages of Accrual and Cash Bases of Accounting. <p>Chapter – 5 (Accounting Equation)</p> <ul style="list-style-type: none">● Meaning and purpose of Accounting Equation.● Format of preparing Accounting Equation.● Related numerical.	<ul style="list-style-type: none">● Students will be able to understand the importance of different accounting assumptions, concepts, and principles.● They will learn the meaning and objective of different accounting concepts/ principles like Business Entity Concept, Dual Aspect Concept and Money Measurement Concept, Accrual Assumption, Going Concern Assumption, Consistency Assumption, Accounting Period Principle, Materiality Concept, Full Disclosure Principle, Prudence Concept, Historical Cost Concept, Revenue Recognition Concept, Matching Concept, Verifiable Object Concept● They will be able to know the basics about Accounting Standards and Ind-Accounting Standards.● Students shall understand the meaning and difference between Cash Bases and Accrual Bases of Accounting.● They will be able to prepare the accounting equation in a proper format.	NA
SUMMER VACATION : 29 May 2023 to 30 June 2023						



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III	03/07/2023	21/07/2023	15	<p>Chapter – 6 (Accounting Procedures Rules of Debit and Credit)</p> <ul style="list-style-type: none">● Modern Approach● Traditional Approach <p>Chapter–7 (Origin of Transactions- Source Documents and Preparation of Vouchers)</p> <ul style="list-style-type: none">● Cash Memo, Invoice, Receipt, Cheque, Pay-in-Slip, Debit Note, Credit Note, Debit Voucher, Credit Voucher and Transfer Voucher <p>Chapter – 8 (Journal)</p> <ul style="list-style-type: none">● Types of Journal Entries.● Format of Journal.● Trade Discount and Cash Discount.● Different types of numerical related to Expense Outstanding, Prepaid Expense, Accrued Income, Income Received in advance, HPP, Life Insurance and other advanced transactions.● Different types of numerical related to Journal.	<ul style="list-style-type: none">● They will be able to know the accounts which need to be debited and credited by using Modern and Traditional Approach of Accounting.● They will understand the need for different source documents and vouchers.● They will know the difference between different types of source documents like Cash Memo, Invoice, Receipt, Cheque, Pay-in-Slip, Debit Note, Credit Note.● They will learn how to record the transactions in a proper format of journal and what is the basis behind debiting or crediting an account.	NA
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IV	24/07/2023	11/08/2023	15	<p>Chapter – 8 (Journal)</p> <ul style="list-style-type: none">● Some more numericals. <p>Chapter – 9 (Ledger)</p> <ul style="list-style-type: none">● Meaning and purpose of Ledger.● Format of Ledger● Posting and Balancing <p>Chapter – 13 (Trial Balance)</p> <ul style="list-style-type: none">● Meaning of Trial Balance.● Types of Trial Balance.● Format of Trial Balance and its preparation. <p>Chapter-10 (Special Purpose Books I– Cash Book)</p> <ul style="list-style-type: none">● Types of Cash Book.● Preparation of Single-Columnar Cash Book and Double-Columnar Cash Book.	<ul style="list-style-type: none">● They will be able to practice more numericals for perfection.● They will understand how to post the recorded transactions in the ledger and how to balance the ledger accounts.● They will be able to summarize the classified transactions in Trial Balance.● Preparation of Simple as well as Double-Columnar Cash Book will be understood by the students in a proper format.	NA
V	14/08/2023	01/09/2023	13	<p>Chapter–10 (Special Purpose Books I– Cash Book)</p> <ul style="list-style-type: none">● Some more numericals of Cash Book. <p>Chapter–11 (Special Purpose Books II– Other Books)</p> <ul style="list-style-type: none">● Preparation of Purchases Book and Sales Book.● Preparation of Purchases Return Book, Sales Return Book and Journal Proper. <p>Chapter–12 (Bank Reconciliation Statement)</p> <ul style="list-style-type: none">● Definition of Bank Reconciliation Statement.● Reasons for mismatch in the balance of Cash Book and Passbook.● Format of Bank Reconciliation Statement and related numerical.	<ul style="list-style-type: none">● They will be able to practice more numericals for perfection.● They will understand how to prepare Purchases Book and Sales Book in proper format.● They will understand how to prepare Purchases Return Book and Sales Return Book in proper format and Journal Proper.● Students will learn the reasons for mismatch in the balances in Cash Book and Passbook.● They will be able to prepare a Bank Reconciliation Statement in a proper format.	Project based on Bank Reconciliation Statement which enables the student to understand how the Cash Book and Pass Book are rectified in real life.



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VI	04/09/2023	12/09/2023	06	Revision for Half-Yearly Examination	<ul style="list-style-type: none"> Students would be able to recall the half-yearly syllabus and clear their doubts, if any. 	
HALF YEARLY EXAMINATION:13 September 2023 to 27 September 2023						
TERM II RESUMES EFFECTIVE FROM 29 SEPTEMBER 2023						
VII	29/09/2023	13/10/2023	11	Chapter – 14 (Depreciation) <ul style="list-style-type: none"> Definition of Depreciation. Causes of Depreciation. Types of Depreciation. Need for charging Depreciation. Methods of charging Depreciation. Preparation of Assets A/c and Provision for Depreciation A/c. 	<ul style="list-style-type: none"> Students will understand the meaning of depreciation, its causes, types, and the need for charging depreciation. They will be able to prepare Assets A/c and Provision for Depreciation A/c by using different methods (SLM and WDV). 	NA
VIII	16/10/2023	10/11/2023	18	Chapter–15 (Provisions and Reserves) <ul style="list-style-type: none"> Meaning of Reserves and Provisions. Difference between Provisions and Reserves. Different types of Reserves. Chapter – 16 (Rectification of Errors) <ul style="list-style-type: none"> Meaning of rectifying entries. Types of errors. Entries to rectify the one-sided and two-sided errors. Chapter–17 (Financial Statements of Sole Proprietorship) <ul style="list-style-type: none"> Meaning of financial statements. Components of financial statements. Types of Expenses. Purpose of Trading and Profit & Loss A/c. Purpose of Balance Sheet. Difference between Trading and Profit & Loss A/c. Preparation of Trading A/c and Profit & Loss A/c. 	<ul style="list-style-type: none"> They will be able to know the meaning of Reserves and Provisions and its difference. They will also understand the different types of Reserves, i.e. Capital Reserve and Revenue Reserve. Students will be able to understand the different types of errors. They will understand how to rectify different types of errors. Students will understand the meaning of financial statements. They will know about the different components of Financial Statements. They will also understand the difference between direct and indirect expenses. They will learn the need to prepare trading, profit & loss A/c and balance sheet. Students would be able to prepare Trading and Profit & Loss A/c. 	NA



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IX	16/11/2023	08/12/2023	15	<p>Chapter–17 (Financial Statements of Sole Proprietorship)</p> <ul style="list-style-type: none">• Preparation of Balance Sheet.• Full Fledged Questions. <p>Chapter – 18 (Adjustments in Preparation of Financial Statements)</p> <ul style="list-style-type: none">• Adjustment relating to Closing Stock, Expense Outstanding, Prepaid Expenses, Accrued Income, Income received in advance, Depreciation, Bad Debts, Provision for Doubtful Debts, Provision for Discount on Debtors.	<ul style="list-style-type: none">• Students will learn how to prepare the balance sheet of a sole proprietorship business.• They will be able to solve full-fledged numerical problems.• Students shall understand the treatment of different adjustments in financial statements, i.e. Closing Stock, Expense Outstanding, Prepaid Expenses, Accrued Income, Income received in advance, Depreciation, Bad Debts, Provision for Doubtful Debts, Provision for Discount on Debtors.	<p>Comprehensive Project will be discussed helping the students how the recording, classification and summarising of financial transactions are done under Double Entry System and how the analysis of financial statements be concluded.</p>
X	11/12/2023	29/12/2023	14	<p>Chapter–18 (Adjustments in Preparation of Financial Statements)</p> <ul style="list-style-type: none">• Adjustment relating to Manager’s Commission, Goods withdrawn by proprietor for personal use, Goods distributed as Free Samples and Goods given as Charity. Interest on Capital, Interest on Drawings, Loss by fire and Implied Adjustments.	<ul style="list-style-type: none">• Students shall understand the treatment of different adjustments in financial statements, i.e. Manager’s Commission, Goods withdrawn by proprietor for personal use, Goods distributed as Free Samples, Goods given as Charity, Interest on Capital, Interest on Drawings, Loss by fire and Implied Adjustments.	NA



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WINTER VACATION : 30 December 2023 to 6 January 2024

XI	08/01/2024	25/01/2024	13	<p>Chapter – 20 (Accounting from Incomplete Records – Single Entry System)</p> <ul style="list-style-type: none"> ● Meaning of Single Entry System. ● Difference between Single Entry and Double Entry System. ● Methods of calculating profits/losses under Single Entry System. ● Calculation of profits/losses by Statement of Affairs method. <p>Chapter- Goods and Services Tax</p> <ul style="list-style-type: none"> ● Meaning of GST. ● Basics of GST ● Need of GST ● Rates of GST ● Types of GST ● Reverse Charge of GST 	<ul style="list-style-type: none"> ● Students would be able to know the meaning of the Single Entry System. ● They will understand the difference between Single Entry and Double Entry System. ● They will learn how to calculate profits/losses under the Statement of Affairs method. ● Students would be able to know the tax system under GST. ● They will know the need for introducing GST. ● They will understand about the different types of GST. ● They will be knowing the meaning of Reverse Charge of GST. 	
XII	29/01/2024	16/02/2024	15	Chapter wise Revision for Annual Examination	<ul style="list-style-type: none"> ● Students would be able to recall the Annual syllabus and clear their doubts, if any. 	
XIII	19/02/2024	23/02/2024	5	Continued with the Chapter wise Revision for Annual Examination	<ul style="list-style-type: none"> ● Students would be able to recall the Annual syllabus and clear their doubts, if any. 	
XIV	ANNUAL EXAMINATION : 26 February 2024 to 13 March 2024					



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XI				Subject: Biology	Name of the Teacher: Sonia Saraswat	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art
I	17 April 2023	28 April 2023	10 days	CH 1: The Living World CH 2: Biological Classification	At the end of chapters students will be able to understand: <ul style="list-style-type: none"> ● Principle for identification, nomenclature and basis of classification of plant kingdom. ● Five kingdom classification 	<ul style="list-style-type: none"> ● Study of the parts of a compound microscope ● Study of specimens/slides
II	1 May 2023	26 May 2023	19 days	CH 3: Plant Kingdom CH 4: Animal Kingdom CH 5: Morphology of Flowering Plants	<ul style="list-style-type: none"> ● Classification of plants into major groups. ● Nomenclature and basis of classification of animal kingdom ● Enormous variation in shapes, size, structure, lifespan of flowering plants. 	<ul style="list-style-type: none"> ● Study of plant specimens/slides/models ● Study of animal specimens/slides/models ● Study and description of flowering plants ● Study of different modifications in roots, stems and leaves. ● Study and identification of different types of inflorescence
SUMMER VACATION : 29 May 2023 to 30 June 2023						
III	3 July 2023	21 July 2023	15 days	CH 6: Anatomy of flowering plants CH 7: Structural organization in Animals	<ul style="list-style-type: none"> ● Internal structure of monocot and dicot plants. ● Morphology and anatomy of frog 	<ul style="list-style-type: none"> ● Preparation of T.S. of dicot and monocot roots and stems
IV	24 July 2023	11 August 2023	15 days	CH 8: Cell: The unit of Life CH 9: Biomolecules	<ul style="list-style-type: none"> ● Cell shape, size, functions and cell organelle, to study the chemical composition of cell and metabolic activities taking place inside the cell of a living body, enzyme nature and their classification- 	<ul style="list-style-type: none"> ● Test for the presence of sugar, starch, proteins and fats.



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V	14 August 2023	1 September 2023	13 days	CH 10: Cell Cycle and Cell Division	<ul style="list-style-type: none"> • Various phases of cell cycle such as interphase, mitosis and meiosis 	<ul style="list-style-type: none"> • Study of mitosis in onion root tip cells and animal cells from permanent slides.
VI	4 September 2023	12 September 2023	6 days	Revision for half yearly examination		
HALF YEARLY EXAMINATION: 13 September 2023 to 27 September 2023						
TERM II RESUMES EFFECTIVE FROM 29 SEPTEMBER 2023						
VII	29 September 2023	13 October 2023	11 days	CH 11: Photosynthesis in Higher Plants Ch.12: Respiration in Plants	<ul style="list-style-type: none"> • process of synthesizing energy rich compounds and sugar in C3 and C4 plants • Various events such as glycolysis, kreb's cycle and ETS to breakdown glucose and release products such as carbon dioxide, water and ATP 	<ul style="list-style-type: none"> • Separation of plant pigments through chromatography. • Study of osmosis by potato osmometer • Study of the rate of respiration in leaf tissue and germinating seeds. • Study of plasmolysis in epidermal peel • Study of distribution of stomata in upper and lower surface of leaves
VIII	16 October 2023	10 November 2023	18 days	Ch.13: Plant Growth and Development Ch. 14: Breathing and Exchange of Gases	<ul style="list-style-type: none"> • Various phases of growth in plants and phytohormones. • Mechanism of inspiration, expiration and exchange of gases in humans 	-
IX	16 November 2023	8 December 2023	15 days	CH 15: Body fluids and Circulation Ch.16: Excretory Products and their Elimination	<ul style="list-style-type: none"> • Structure of heart, cardiac cycle and regulatory mechanism of circulation in human beings • Structure and function different parts of kidney and nephrons, formation of urine and regulation of excretory system in humans 	-



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X	11 December 2023	29 December 2023	14 days	Ch.17: Locomotion and Movement	<ul style="list-style-type: none">Different types of muscles, structure and function of contractile protein, mechanism of contraction and skeletal system	<ul style="list-style-type: none">Study of human skeleton
WINTER VACATION : 30 December 2023 to 6 January 2024						
XI	8 January 2024	25 January 2024	13 days	Ch.18: Neural Control and Coordination	<ul style="list-style-type: none">CNS, PNS and conduction of nerve impulse	
XII	29 January 2024	16 February 2024	15 days	Ch. 19: Chemical Coordination and Integration	<ul style="list-style-type: none">Various hormones of human beings, their source gland and their functions	
TERM -II SYLLABUS COMPLETION-16 February 2024						
XIII	19 February 2023	23 February 2023	5 days	Revision for Annual Examination		
XIV	REVISION FOR ANNUAL EXAMINATION					
ANNUAL EXAMINATION : 26 February 2024 to 13 March 2024						



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XI		Section: C		Subject: Business Studies		Name of the Teacher: Pooja Kohati	
Module/Duration		No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art		
Module	From					To	
I	17 Apr, 2023	28Apr, 2023	10	<p>CH 1: Evolution and Fundamentals of Business</p> <ul style="list-style-type: none"> ◆ History of Trade and Commerce in India ◆ Business – meaning and characteristics ◆ Business, profession and employment-concept ◆ Objectives of business ◆ Classification of business activities-Industry and Commerce ◆ Industry-types: primary, secondary, tertiary: Meaning and subgroups ◆ Commerce-trade and auxiliaries to trade; meaning 	<p>The students would be able to:</p> <ul style="list-style-type: none"> ◆ Acquaint the History of Trade and Commerce in India ◆ Understand the meaning of business with special reference to economic and non- economic activities. ◆ Discuss the characteristics of business. ◆ Understand the concept of business, profession and employment. ◆ Differentiate between business, profession and employment. ◆ Appreciate the economic and social objectives of business. ◆ Examine the role of profit in business. ◆ Understand the broad categories of business activities- industry and commerce. ◆ Describe the various types of industries. ◆ Discuss the meaning of commerce, trade and auxiliaries to trade and their types. ◆ Understand the concept of risk as a special characteristic of business & examine the nature and causes of business risks. 	<p>SCHEMA: A flowchart based activity to show different types of industries.</p>	



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II	01 May, 2023	26 May, 23	19	<p>CH 2: Forms of Business organizations</p> <ul style="list-style-type: none"> ◆ Sole Proprietorship- Concept, merits and limitations. ◆ Partnership-Concept, types, merits and limitation of partnership, registration of a partnership firm, partnership deed. Types of partners ◆ Hindu Undivided Family Business: Concept ◆ Cooperative Societies- Concept, merits, and limitations. ◆ Company - Concept, merits and limitations; Types: Private, Public and One Person company – Concept ◆ Formation of company - stages, important documents to be used in formation of a company ◆ Choice of form of business organization 	<ul style="list-style-type: none"> ◆ List the different forms of business organizations and understand their meaning. ◆ Identify and explain the concept, merits and limitations of Sole Proprietorship. ◆ Identify and explain the concept, merits and limitations of a Partnership firm. ◆ Understand the types of partnership on the basis of duration and liability. ◆ State the need for registration of a partnership firm. ◆ Discuss the types of partners –active, sleeping, secret, nominal and partner by estoppel. ◆ Understand the concept of HUF Business. ◆ Identify and explain the concept, merits and limitations of Cooperative Societies. ◆ Understand the concept of consumers, producers, marketing, farmers, credit and housing co-operatives. ◆ Identify and explain the concept, merits and limitations of private and public companies. ◆ Understand the meaning of one person company. ◆ Distinguish between a private company and a public company. ◆ Highlight the stages in the formation of a company. ◆ Discuss the important documents used in the various stages in the formation of a company. ◆ Distinguish between the various forms of business organizations. 	<p>PROJECT WORK on any one of the following topics:</p> <ol style="list-style-type: none"> 1. Field visit 2. Case study on a product. 3. Aids to Trade 4. Internship/ Externshi 5. Visit to any State Emporium
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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

III	03 July, 23	21 July, 2023	15	<p>CH 3: Public, Private and Global Enterprises</p> <ul style="list-style-type: none"> ◆ Public sector and private sector enterprises – Concept ◆ Forms of public sector enterprises: Departmental Undertakings, Statutory Corporations and Government Company. ◆ Global Enterprises–Feature. ◆ Public Private Partnership Concept 	<ul style="list-style-type: none"> ◆ Develop an understanding of Public sector and private sector enterprises ◆ Identify and explain the features, merits and limitations of different forms of public sector enterprises ◆ Develop an understanding of global enterprises, Public Private Partnership by studying their meaning and features. 	<p>PEER TO PEER LEARNING- SHARING INTERNSHIP EXPERIENC</p>
IV	24 July, 23	11 Aug, 23	15	<p>CH 4: Business Services</p> <ul style="list-style-type: none"> ◆ Business Services–meaning and types. ◆ Banking: Types of bank accounts - savings, current, recurring, fixed deposit and multiple option deposit account ◆ Banking services with particular reference to Bank Draft, Bank Overdraft, Cash credit. E- Banking meaning, Types of digital payments ◆ Insurance – Principles. Types – life, health, fire and marine insurance – concept ◆ Postal Service-Mail, Registered Post, Parcel, Speed Post, Courier-meaning 	<ul style="list-style-type: none"> ◆ Understand the meaning and types of business services. ◆ Develop an understanding of different types of bank accounts. ◆ Develop an understanding of the different services provided by banks ◆ Recall the concept of insurance, understand the principles of insurance. ◆ Discuss the meaning of different types of insurance-life, health, fire, marine insurance. ◆ Understand the utility of different telecom services 	
V	14 Aug,	1 Sep, 23	13	<p>CH 5: Emerging Modes of Business</p> <ul style="list-style-type: none"> ◆ E - business: concept, scope and 	<ul style="list-style-type: none"> ◆ Give the meaning of e-business. ◆ Discuss the scope of e-business. 	



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	23			benefits	<ul style="list-style-type: none"> ◆ Appreciate the benefits of e-business ◆ Distinguish e-business from traditional business. 	
VI	4 Sep, 23	12 Sep, 23	6	REVISION FOR HALF YEARLY EXAMINATION		
HALF YEARLY EXAMINATION: 13 September 2023 to 27 September 2023						
VII	29 Sep, 23	13Oct, 23	11	CH 6: Social Responsibility of Business and Business Ethics <ul style="list-style-type: none"> ◆ Concept of social responsibility ◆ Case of social responsibility ◆ Responsibility towards owners, investors, consumers, employees, government and community. ◆ Role of business in environment protection ◆ Business Ethics-Concept and Elements 	<ul style="list-style-type: none"> ◆ State the concept of social responsibility. ◆ Examine the case for social responsibility. ◆ Identify the social responsibility towards different interest groups. ◆ Appreciate the role of business in environment protection. ◆ State the concept & elements of business ethics. 	An INSIGHT Into the case for and against social responsibility of business.
VIII	16 oct, 23	10 Nov, 23	18	Unit 7: Sources of Business Finance <ul style="list-style-type: none"> ◆ Concept of business finance ◆ Owners' funds- equity shares, preferences share, retained earnings ◆ Borrowed funds: debentures and bonds, loan from financial institution and commercial banks, public deposits, trade credit, Inter Corporate Deposits (ICD). 	<ul style="list-style-type: none"> ◆ State the meaning, nature and importance of business finance. ◆ Classify the various sources of funds into owners' funds. ◆ State the meaning of owners' funds. ◆ State the meaning of borrowed funds & discuss the concept of debentures, bonds, loans from financial institutions and commercial banks, Trade credit and Inter Corporate deposits. ◆ Distinguish between owners' funds and borrowed funds. 	PPT PRESENTATION An activity involving thorough research and presentation on a given topic..



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IX	16 Nov, 23	8 Dec, 23	15	<p>Unit 8: Small Business and Enterprises</p> <ul style="list-style-type: none"> ◆ Entrepreneurship Development (ED): Concept, Characteristics and need. ◆ Process of Entrepreneurship Development: ◆ Start-up India Scheme, ways to fund start-up. Intellectual Property Rights and Entrepreneurship ◆ Small scale enterprise as defined by MSMED Act 2006. ◆ Role of small business in India with special reference to rural areas ◆ Government schemes and agencies for small scale industries: National Small Industries Corporation (NSIC) and District Industrial Centre (DIC) with special reference to rural, backward areas. 	<ul style="list-style-type: none"> ◆ Understand the concept of Entrepreneurship Development (ED), Intellectual Property Rights ◆ Understand the meaning of small business ◆ Discuss the role of small business in India ◆ Appreciate the various Government schemes and agencies for development of small scale industries- NSIC and DIC with special reference to rural, backward area. 	<p>IDEATION & INVESTOR PITCH-An activity where students would have to create an innovative eco- friendly product that would have demand in future and attracting investors for investment.</p>
X	11 Dec, 23	29 Dec, 23	14	<p>CH 9: Internal Trade</p> <ul style="list-style-type: none"> ◆ Internal trade - meaning and types services rendered by a wholesaler and a retailer ◆ Types of retail-trade-Itinerant and small scale fixed shops retailers ◆ Large scale retailers- Departmental stores, chain stores-concept ◆ GST (Goods and Services Tax): Concept and key-features 	<ul style="list-style-type: none"> ◆ State the meaning and types of internal trade. ◆ Appreciate the services of wholesalers and retailers. ◆ Explain the different types of retail trade. ◆ Highlight the distinctive features of departmental stores, chain stores and mail order business. ◆ Understand the concept of GST ◆ Understand the concept of international trade. ◆ Describe the scope of international trade to the nation and business firms. 	<p>SHADOW TO AN ENTREPRENEUR</p>



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WINTER VACATION: 30 December 2023 to 6 January 2024

XI	08 Jan, 24	2 Feb, 24	13	CH 10: International Trade <ul style="list-style-type: none"> ◆ Export trade-Meaning and procedure ◆ Import Trade-Meaning and procedure 	State the meaning and objectives of export & import trade. Explain the important steps involved in executing export & import trade.	Participation in International Commerce Olympiad
XII	29 Jan, 24	16 Feb, 24	15	CH 10: International Trade <ul style="list-style-type: none"> ◆ Documents involved in International Trade; indent, letter of credit, shipping order, shipping bills, mate's receipt (DA/DP) ◆ World Trade Organization (WTO) meaning and objectives 	Develop an understanding of the various documents used in international trade. Identify the specimen of the various documents used in international trade. Highlight the importance of the documents needed in connection with international trade transactions. State the meaning of WTO & discuss its objectives in promoting international trade.	
TERM II SYLLABUS COMPLETION 16 February 2024						
XIII	19 Feb 24	23 Feb, 24	5	REVISION FOR ANNUAL EXAMINATION		
XIV	ANNUAL EXAMINATION: 26 February 2024 - 13 March 2024					



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XI		Section: A,B,C		Subject: COMPUTER SCIENCE		Name of the Teacher: Vidhi Arora Hasija	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
Module	From	To					
I	17 th April 2023	28 th April 2023	10	Unit II: Computational Thinking and Programming-I <ul style="list-style-type: none"> Familiarization with the basics of Python programming: Introduction to Python, Features of Python, executing a simple "hello world" program, execution modes: interactive mode and script mode, Python character set, Python tokens(keyword, identifier, literal, operator, punctuator), variables, concept of l-value and r-value, use of comments 	To understand the features of the programming language python and to discriminate between the different programming languages. The students will learn how to use python through Python software.	Students will do hands-on in the lab and create their first program both in Shell mode and Script mode.	
II	1 st May 2023	26 th May 2023	19	<ul style="list-style-type: none"> Knowledge of data types: Number (integer, floating point, complex), boolean, sequence (string, list, tuple), None, Mapping(dictionary), mutable and immutable data types. Operators: arithmetic operators, relational operators, logical operators, assignment operators, augmented assignment operators, identity operators (is, is not), membership operators (in not in) Expressions, statement, type conversion, and input/output: precedence of operators, expression, evaluation of an expression, type-conversion (explicit and implicit conversion), accepting data as input from the console and displaying output. Errors-syntax errors, logical errors, and run-time errors Flow of Control: introduction, use of indentation, sequential flow, conditional and iterative flow Conditional statements: if, if-else, if-elif-else 	To understand all necessary terms of the python platform like indentation, variables, data types etc. To learn the various python operators used to create an expression and to understand the flow of programming language Students will be able to recognize and debug, the various errors generated while coding of the programs.	Activity Think-Play-Share based on concept of Datatypes Practical implementation of python programming operators Practical implementation of basics of Python using conditional statements.	
III	3 rd July 2023	21 st July 2023	15	<ul style="list-style-type: none"> Iterative Statement: for loop, range(), while loop, flowcharts, break and continue statements, nested loops, suggested programs: generating pattern, summation of series, finding the factorial of a positive number, etc. 	To understand the control & flow of programming through various conditional and iterative statements	Creation of a small project based on basic Python programming using the concept of control statements.	



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IV	24 th July 2023	11 th August 2023	15	<ul style="list-style-type: none"> ● Unit II: Computational Thinking and Programming-I ● Introduction to Problem-solving: Steps for Problem-solving (Analyzing the problem, developing an algorithm, coding, testing, and debugging), representation of algorithms using flowchart and pseudocode, decomposition ● Unit I: Computer Systems and Organisation ● Basic computer organisation: Introduction to Computer System, hardware, software, input device, output device, CPU, memory (primary, cache and secondary), units of memory (bit, byte, KB, MB, GB, TB, PB) ● Types of software: System software (Operating systems, system utilities, device drivers), programming tools and language translators (assembler, compiler, and interpreter), application software ● Operating System(OS): functions of the operating system, OS user interface ● Boolean logic: NOT, AND, OR, NAND, NOR, XOR, NOT, truth tables and De Morgan's laws, Logic circuits 	<p>Writing of Algorithms to understand program. Making Flow charts and pseudo codes of various programs</p> <p>To recognize the various parts of a computer system and to understand the functionality of OS</p>	<p>Real life case study questions based on problem solving Practical</p> <p>Draw and explain the IPO cycle and Memory chart in MS-Word</p>
V	14 th August 2023	1 st September 2023	13	<ul style="list-style-type: none"> ● Number System: Binary, Octal, Decimal and Hexadecimal number system; conversion between number systems ● Encoding Schemes: ASCII, ISCII, and Unicode (UTF8, UTF32) 	<p>To understand the use of Boolean Logic and to convert one Number System to another. To understand the various encoding schemes.</p>	<p>Presentation making on various encoding schemes.</p>
VI	4 th September 2023	12 th September 2023	6	Revision of Syllabus for Half Yearly Examination	<p>Students will be able to understand and revise the various concept of computer fundamentals and programming language implementation through various practical's.</p>	<p>Practical File and Project File preparation</p>



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VII	29 th September 2023	13 th October 2023	11	<ul style="list-style-type: none"> • Strings: introduction, string operations (concatenation, repetition, membership and slicing), traversing a string using loops, built-in functions/methods–len(), capitalize(), title(), lower(), upper(), count(), find(), index(), endswith(), startswith(), isalnum(), isalpha(), isdigit(), islower(), isupper(), isspace(), lstrip(), rstrip(), strip(), replace(), join(), partition(), split() • Lists: introduction, indexing, list operations (concatenation, repetition, membership and slicing), traversing a list using loops, built-in functions/ methods–len(), list(), append(), extend(), insert(), count(), index(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum(); nested lists, suggested programs: finding the maximum, minimum, mean of numeric values stored in a list; linear search on list of numbers and counting the frequency of elements in a list. 	<p>To learn the concept of storing multiple values in a single datatype.</p> <p>To learn the basic operation in Strings and Lists.</p>	<p>Google form Quiz based on Strings and List</p> <p>Practical implementation of strings and links in python programming.</p>
VIII	16 th October 2023	10 th November 2023	18	<ul style="list-style-type: none"> • Tuples: introduction, indexing, tuple operations (concatenation, repetition, membership and slicing); built-in functions/methods – len(), tuple(), count(), index(), sorted(), min(), max(), sum(); tuple assignment, nested tuple; • Dictionary: introduction, accessing items in a dictionary using keys, mutability of a dictionary (adding a new term, modifying an existing item), traversing a dictionary, built-in functions/ methods – len(), dict(), keys(), values(), items(), get(), update(), del(), del, clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), sorted()); 	<p>To enhance problem solving and programming skills in Python with extensive programming through Tuples and Dictionary concept</p>	<p>Role Play Activity based on List, Tuples and Dictionaries</p> <p>Practical implementation of Sorting techniques</p>
IX	16 th November 2023	8 th December 2023	15	<ul style="list-style-type: none"> • Practical work of List, Tuple and Dictionary continued. • Introduction to Python modules: Importing module using 'import' and using from statement, importing math module (pi, e, sqrt(), ceil(), floor(), pow(), fabs(), sin(), cos(), tan()); random module (random(), randint(), randrange()), statistics module (mean(), median(), mode()). 	<p>To understand the concept of built in modules to introduce the concept of reusability of code</p>	<p>Practical implementation of modules through programs</p>



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

X	11 th December 2023	29 th December 2023	14	<p>Unit III: Society, Law and Ethics</p> <ul style="list-style-type: none"> • Digital Footprints • Digital Society and Netizen: net etiquettes, communication etiquettes, social media etiquettes • Data Protection: Intellectual property rights (copyright, patent, trademark), violation of IPR(plagiarism, copyright infringement, trademark infringement), open source software and licensing (Creative Commons, GPL and Apache) • Cyber Crime: definition, hacking, eavesdropping, phishing and fraud emails, ransomware, cyber trolls, cyber bullying 	<p>Students will learn the Importance of IT, its Impact in our daily life and various cyber crimes</p>	<p>Article Writing on Societal Impact of IT explaining Digital footprints, society & Netizen, Data Protection, cyber crime etc.</p>
XI	8 th January 2024	25 th January 2024	13	<p>Unit III: Society, Law and Ethics</p> <ul style="list-style-type: none"> • Cyber safety: safely browsing the web, identity protection, confidentiality, cyber trolls and bullying. • Safely accessing web sites: malware, viruses, trojans, adware • E-waste management: proper disposal of used electronic gadgets • Indian Information Technology Act (IT Act) • Technology & Society 	<p>To understand the need of cyber safety and how to reduce, reuse and recycle e-waste</p>	<p>Debate on Pros and Cons of E-waste management</p>
XII	29 th January 2024	16 th February 2024	15	Project File and Practical File Preparation		
XIII	19 th February 2024	23 rd February 2024	5	Revision of Syllabus for Annual Examination	<p>Students will be able to understand and revise the various concepts of computer fundamentals and programming language implementation through various practical's.</p>	<p>Practical File and Project File preparation</p>
ANNUAL EXAMINATION : 26 FEBRUARY 2024-13 MARCH 2024						



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XI-A/B/C			Subject: ECONOMICS		Name of the Teacher: ACHINT BAJPAI	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art
I	17 April 2023	28 April 2023	10 Days	<p>Demand, market demand, determinants of demand, demand schedule, demand curve and its slope, movement along and shifts in the demand curve; price elasticity of demand - factors affecting price elasticity of demand; measurement of price elasticity of demand – percentage- change method.</p>	<p>To understand the idea of the term demand and how it differentiates with a desire and a want.</p> <p>To develop a sound distinction between the effects on a consumer's demand and quantity demanded in case of various factors affecting demand, situations which breach the standard law of demand and also the numerical expression to the law of demand.</p> <p>How will he react in a situation if he is disturbed from such a position in case he measures his utility in numbers or he ranks them?</p>	<p>Application through schedules, graphs and Numerical.</p> <p>Quiz and Multiple Choic Questions.</p>
II	1 May 2023	26 May 2023	19 Days	<p>Consumer's Equilibrium and Demand Consumer's equilibrium - meaning of utility, marginal utility, law of diminishing marginal utility, conditions of consumer's equilibrium using marginal utility analysis.</p> <p>Analysis of consumer's equilibrium- the consumer's budget (budget set and budget line), preferences of the consumer (indifference curve, indifference map) and conditions of consumer's equilibrium.</p>	<p>Students will be able to arrange and present data in tabular form and also differentiate between different types of tables.</p> <p>They shall also be able to present the data graphically</p> <p>To understand the rationale behind determining a situation where a consumer attains rest?</p>	<p>Diagrammatic and Tabular Presentation</p>



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

III	3 rd July 2023	21 st July 2023	15 Days	<p>Microeconomics Unit 4: Introduction</p> <p>Meaning of microeconomics and macroeconomics; positive and normative economics</p> <p>What is an economy? Central problems of an economy: what, how and for whom to produce; concepts of production possibility frontier and opportunity cost</p>	<p>To understand the very basis of what an economy is ? and how does it operates to maximize satisfaction amongst people.</p> <p>Herein the student will be able to understand the concepts of economic problems, opportunity cost, production possibility curve and also solutions to economic problems in different economies.</p>	Working Numericals
IV	24 July 2023	11 August 2023	15 Days	<p>Producer Behaviour and Supply Meaning of Production Function – Short- Run and Long-Run Total Product, Average Product and Marginal Product. Returns to a Factor: Law of Variable Proportions</p>	<p>The student shall be able to understand the way a firm operates in short period wherein a distinction between variable and fixed factors of production can be marked.</p> <p>He shall also be able to understand the various aspects of production in a firm and their behavioural pattern in the short period via a standardised law.</p>	Application through schedules, graphs and Numerical.



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

V	14 August 2023	1 September	13 Days	<p>Forms of Market and Price Determination under Perfect Competition with simple applications.</p> <p>Perfect competition - Features; Determination of market equilibrium and effects of shifts in demand and supply.</p> <p>Other Market Forms - monopoly, monopolistic competition - their meaning and features</p>	<p>To learn what are the key features of a market and identify the difference between various forms of market existent as part of the syllabus including their features and implications.</p> <p>To understand how the market reacts in case of excess demand/supply and how government intervention resurrects /protects various groups viz. producers and consumers in the market in these situations.</p>	<p>Discussion on MSP, black marketing for and against Numerical Problems</p>
VI	4 September 2023	12 September 2023	6 Days	REVISION FOR HALF YEARLY EXAMINATION		
VII	29 September 2023	13 October 2023	11 Days	<p>Introduction</p> <p>What is Economics? Meaning, scope, functions and importance of statistics in Economics</p> <p>Collection, Organisation and Presentation of data</p> <p>Collection of data - sources of data - primary and secondary; how basic data is collected with concepts of Sampling; methods of collecting data; some important sources of secondary data: Census of India and National Sample Survey Organisation.</p> <p>Organisation of Data: Meaning and types of variables; Frequency Distribution.3</p> <p>Presentation of Data</p>	<p>Students will be able to understand the meaning of statistics as a discipline of economics, its limitations, functions and opinions.</p> <p>The student shall be able to differentiate between various sources of collecting data and also recall the classification of data into primary and secondary.</p>	-



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VIII	16 October 2023	10 November 2023	18 Days	<p>Presentation of Data: (i) Geometric forms (bar diagrams and pie diagrams), (ii) Frequency diagrams (histogram, polygon and Ogive) and (iii) Arithmetic line graphs (time series graph)</p> <p>Measures of Central Tendency- Arithmetic mean, median and mode</p>	<p>via various tools histogram, polygon, ogive and mark a difference between them. The students shall be able to calculate and understand working of average, median, mode and also differentiate between them as various measures of central tendency.</p> <p>numerical equation and should be able to distinguish amongst various degrees of this equation.</p>	<p>Application through schedules, graphs and Numerical.</p> <p>Application through schedules, graphs and Numerical.</p> <p>Also utilising the fundamentals of cost and revenue.</p>
IX	16 November 2023	8 December 2023	15 Days	<p>Measures of Dispersion - absolute dispersion (range, quartile deviation, mean deviation and standard deviation); relative dispersion (co-efficient of range, co-efficient of quartile-deviation, co-efficient of mean deviation, co-efficient of variation)</p>	<p>To mark a difference between various absolute and relative measures of dispersion via their calculation.</p>	-
X	11 December 2023	29 December 2023	14 Days	<p>Correlation – meaning and properties, scatter diagram; Measures of correlation - Karl Pearson's method (two variables ungrouped data) Spearman's rank correlation.</p>	<p>To develop an understanding between two variables whether directly or indirectly correlated. To gain proficiency in developing a correlation by Karl Pearson's method and Spearman's rank correlation.</p>	<p>Real world examples /case studies.</p>
WINTER VACATION 30 December 2023- 6 January 2024						
XI	8 January 2024	25 January 2024	13 Days	<p>Introduction to Index Numbers - meaning, types - wholesale price index, consumer price index and index of industrial production, uses of index numbers; Inflation and index</p>	<p>To gain sound knowledge on various price and quantity indexes which help in numbers.</p>	-



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

XII	29 January 2024	16 February 2024	15 Days	REVISION AND ASSESSMENT FOR WHOLE SYLLABUS
XIII	19 February 2024	23 Februar y 2024	5 Days	REVISION FOR ANNUAL EXAMINATION
ANNUAL EXAMINATION 26th FEB. 2024 TO 13th MARCH 2024				



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XI			Subject: GEOGRAPHY		Name of the Teacher: AMAN MALIA	
Module/Duration		No. of Days	Chapters and Topics to be taught		Learning Objectives	Activity Planned/ Integration of Art
I	17 April 2023	28 April 2023	10	<p>Book-1</p> <p>Ch-1, Geography as a Discipline Definition, Geography as an Integrating Discipline, Physical Geography and Natural Sciences, Geography and Social Sciences, Branches of Geography (Systematic and Regional)</p> <p>Ch-2, The Origin and Evolution of the Earth Early Theories, Modern Theories (Origin of the Universe), The Star Formation, Formation of Planets, Our solar System, The Moon, Evolution Of the earth, Evolution of the Lithosphere, Evolution of the Atmosphere and Hydrosphere, Origin of Life</p> <p>Ch-3, Interior of the Earth Direct & Indirect Sources, Earthquake, Earthquake Waves, Propagation of Earthquake Waves, Emergence of Earthquake waves, Types & Effects of Earthquake, Structure of the Earth, Volcanoes and their Landforms</p>	<p>Students will be knowing geography as an interdisciplinary subject and branches of geography.</p> <p>Students will be familiarize with Early Theories, Modern Theories (Origin of the Universe), The Star Formation, Formation of Planets, Our solar System, The Moon, Evolution Of the earth, Evolution of the Lithosphere, Evolution of the Atmosphere and Hydrosphere, Origin of Life.</p> <p>Direct and indirect sources to know about the interior of the earth. Earthquake, volcano and its different types of volcano.</p>	<p>Make flow chart on regional and systematic approach</p>



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

II	1 May 2023	26 May 2023	19 Days	<p>Ch-4, Distribution of Ocean and Continents Continental Drift theory, Evidences in support of the Continental Drift, Force for drifting, Post Drift Studies, Distribution of Earthquake and Volcanoes, Concept of Seafloor Spreading, Plate Tectonic, Plate Boundaries, Force for the Plate movement, Movement of Indian Plate.</p> <p>Ch-5, Minerals And Rocks Minerals and their Physical Characteristics, Types of Rocks, Rock Cycle</p> <p>Book 2</p> <p>Ch-1,India- location and Size Size and Location, India and Its Neighbours</p> <p>Book-3 Practical Ch-1, Introduction to Maps Essentials of Map Making, Map Construction and Production, History of Map Making, Types of Maps Based on Scale and Function, Uses of maps</p>	<p>Students will be knowing about the theories regarding evolution of the continents and oceans.</p> <p>Students will be familiar with the different types of minerals and rocks and rock cycle.</p> <p>Examine the relation between longitude and time,latitude and amount of radiation received by the earth.Understand the concept of Local time and Standard time.</p> <p>Acquaintance with the position of India and their relationship with the neighboring countries</p>	MAP WORK AND DIAGRAMS
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DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

III	3 July 2023	21 July 2023	15 Days	<p>Ch-2, Physical Features Of India Geological Division of India, Physiographic Division of India, The Northern and Northeastern Mountains, The Northern Plains, The Peninsular Plateau, The Indian Desert, The Coastal Plains, The Island</p> <p>Ch-3, Drainage Drainage basin, Catchment Area, Drainage Patterns, Drainage System of India, The Himalayan Drainage System, Evolution of Himalayan Drainage, The River System of Himalayan Drainage- The Indus System, The Ganga System, The Brahmaputra System, Evolution of the Peninsular River Drainage, The Mahanadi, The Godavari, The Krishna, The kaveri, The narmada, The Tapi, the Luni, Small Rivers flowing Towards east and West, Comparison between the Himalayan and Peninsular Rivers, River Regimes, Extent of Usability of River Water</p> <p>Book 1</p> <p>Ch-6, Geomorphic Processes Geomorphic Processes, Endogenic Forces, Exogenic Forces, Weathering and its Processes (Chemical,, Physical or Mechanical, Biological Weathering) Special Effects of Weathering, Significance of weathering, Mass Movements, Erosion and Deposition, Soil Formation, Soil Forming Factors</p>	<p>Analyse how the geological process involved in the formation of different physical features. Analyse and understand the concept of Plate tectonics, continental drift and all related movements.</p> <p>How climate, topology, slope affect the river, three major stages of the river system and various erosional and depositional landforms created by the river.</p> <p>develop the role of rivers in the economy Various dimensions of learning like critical thinking, analytical, comparative, creative etc. will develop habits of mind and ultimate essential life skill to develop the role of rivers in the economy Students will be knowing about Geomorphic Processes,</p> <p>Endogenic Forces, Exogenic Forces, Weathering and its Processes (Chemical,, Physical or Mechanical, Biological Weathering) Special Effects of Weathering, Significance of weathering, Mass Movements, Erosion.</p>	<p>MAP WORK AND DIAGRAMS</p> <p>MAP WORK</p>
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DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

CLASS-XI MODULE WISE SYLLABUS (SESSION: 2021-22)

IV	24 July 2023	11 August 2023	15 Days	<p>Book-3, Practical Ch-2 Map Scale Map scale, Methods of Scale, Conversion of Scale</p> <p>Book-3 Practical</p> <p>Ch-4,Map Projections Map Projection, needs for Map Projections, Elements of map Projections, Classification of Maps, Projection Constructing, Some Selected Projections.</p> <p>Ch-7, Landforms and Their Evolution Landforms, Erosional and Depositional landforms of Running Water, Groundwater, Glaciers, Wave and Currents and Wind.</p>	<p>Students will be knowing how the physical features are formed due to exogenic and endogenic forces, Students will be knowing how the physical features are formed due to exogenic and endogenic forces,</p>	<p>PRACTICAL WORK</p> <p>PROJECTIONS CONSTRUCTIONS</p>
V	14 August 2023	1 September 2023	13 Days	<p>Ch-8, Composition and Structure of Atmosphere omposition of the Atmosphere, Structure of the Atmosphere</p> <p>Ch-9, Solar Radiation, Heat Balance and Temperature Solar Radiation, Variability of Insolation at the Surface of the Earth, The Passage of the solar Radiation Through the Atmosphere, Heating and the Cooling of Atmosphere, Terrestrial Radiation, Heat Budget of the Planet Earth Variation in the Net Heat Budget at the earth's Surface, Factors Controlling Temperature Distribution, Distribution of Temperature, Inversion of the Temperature</p>	<p>Students will be familiarize with the composition of the Atmosphere and Structure of the Atmosphere</p> <p>Student will be analyzing the difference between solar Radiation and terrestrial radiation Variability of Insolation at the Surface of the Earth,Heat budget Factors Controlling Temperature Distribution.</p>	<p>DIAGRAMS</p>



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VI	4 September 2023	12 September 2023	6 Days	REVISION FOR HALF YEARLY		
VII	29 Septem ber 2023	13 October 2023	11 Days	<p>Ch-10, Atmospheric Circulation and Weather System</p> <p>Atmospheric Pressure, Vertical Variation of Pressure, Horizontal Distribution of Pressure, World Distribution of Sea Level Pressure, Forces Affecting the Velocity and Direction of wind, General Circulation of the Atmosphere, Seasonal Winds, Local Winds, Land and Sea Breezes, Mountain and the Valley winds, Air Masses, Fronts, Extra Tropical Cyclone, Tropical Cyclone, Thunderstorms and Tornadoes</p> <p>Ch-11, Water in the Atmosphere Evaporation and Condensation, Dew, Frost, Fog and Mist, Clouds, Precipitation, Types of Rainfall, World distribution of Rainfall.</p>	<p>Students will be analysing the factors influencing the permanent and local winds on earth surface, Air Masses, Fronts, Extra Tropical Cyclone, Tropical Cyclone, Thunderstorms and Tornadoes</p> <p>Learners will know how the Evaporation and Condensation, Dew, Frost, Fog and Mist occur, Clouds, Precipitation, Types of Rainfall.</p>	<p>DIAGRAMS</p> <p>DIAGRAMS</p> <p>Weather chart analysis</p>



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VIII	16 October 2023	10 November 2023	18 Days	<p>Ch-4 Climate Climate and Weather, Unity and Diversity in the Monsoon Climate, Factors Determine the Climate of India (Factors Related to Location and Relief, Factors Related to Pressure and Wind), Mechanism of Weather in the Winter Season, Mechanism of Weather in the Summer Season, The Nature of Indian Monsoon, Intertropical Convergence Zone, El Nino and the Indian Monsoon, The Rhythm of Season, Traditional Indian Seasons, Distribution of Rainfall, Climatic Region of India, monsoon and the economic life of India, Global Warming</p> <p>Ch-5, Natural Vegetation Natural Vegetation, Types of Forest (Tropical Evergreen Forests, Tropical Deciduous Forests, Tropical Thorn Forests, Montane Forests, Littoral and Swamp Forests), Forest cover in India, Forest Conservation, Social Forestry, Farm Forestry, Wildlife, Wildlife conservation in India, Biosphere Reserves, (Nilgiri Biosphere, Nanda Devi Biosphere, Sunderban Biosphere, Gulf of Mannar</p> <p>Ch-7, Natural Hazards and Disaster What is a Disaster, Classification of natural Disasters, Earthquake(Earthquake zones, Effects of Earthquakes, Earthquake Hazard Mitigation), Tsunami, Tropical Cyclone, Floods, Drought Drought Prone Area in India, Consequences of Drought), landslide(landslide Vulnerable Zone, Mitigation), Disaster Management</p>	<p>Understand the mechanism of Monsoon. Analyse the onset and withdrawal of monsoon in India. Acquaintance with the distribution of rainfall in Indian Region.</p> <p>Acquaintance of various factors affecting diversity in India.</p> <p>Enhance knowledge about the number of species of plants and animals in India. How climate, topography, slope affect the growth of natural vegetation and wildlife.</p> <p>Analyse the importance of Ecosystem.</p> <p>Students will be knowing about the disaster and its types and mitigation methods.</p>	MAP WORK AND DIAGRAMS
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DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IX	16 November 2023	8 December 2023	15 Days	Book-1 Ch-13, Water (Ocean) Hydrological Cycle, Relief of the Ocean Floor, Division of the Ocean Floors (Major and Minor), Temperature of the Ocean Water, Factors Affecting Temperature Distribution, Horizontal and Vertical Distribution of Temperature, Salinity of the Ocean water, Vertical Distribution of Salinity Ch-14, Movements of the Ocean Water Waves, Characteristics of waves, Tides, Types of Tides, Importance of Tides, Ocean Currents, types of Ocean Currents, Effects of Ocean Currents	Students will analyze the Hydrological Cycle and water budget, Relief of the Ocean Floor, Division of the Ocean Floors (Major and Minor), Salinity of the Ocean water, Vertical Distribution of Salinity. Different movements like waves, tides and currents and their impacts.	DIAGRAMS
X	11 December 2023	29 December 2023	14 Days	Ch-16, Biodiversity and Conservation Biodiversity, Different Levels of Biodiversity, Importance of Biodiversity, Loss Of Biodiversity, Endangered Species, Vulnerable Species, Rare Species, Conservation of Biodiversity	Students will be knowing about Different Levels of Biodiversity, Importance of Biodiversity, Loss Of Biodiversity, Endangered Species, Vulnerable Species, Rare Species	
XI	8 January 2024	25 February 2024	18 Days	Book 3 Ch-5, Topographical Maps Topographical maps, Methods of Relief Representation, Contour, Types of Landforms, Interpretation of Topographical Maps, Map Interpretation Procedure Ch-12, World Climate and Climate Change Koppen's Scheme of Classification of Climate, Climate Change, Causes of Climate Change, Global Warming	Practical activity Topo sheet Analysis	MAP WORK
XII	29 January 2023	16 February 2023	15 Days	Book-3, Practical Ch-7, Introduction To Remote Sensing Stages in Remote Sensing , Sensors, Resolving Powers of the Satellite, Sensor Resolution, Data Product, Interpretation of satellite Imageries	Students will get to know importance of Remote sensing in today's world.	
XIII	TERM 2 SYLLABUS COMPLETE BY 16 FEBRUARY 2024					
XIV	16 February 2024	23 February 2024	5 Days	REVISION		



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XI			Subject: Geospatial Technology		Name of the Teacher: Kiran Srivastava	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art
I	17 April 2023	28 April 2021	10	Ch-1, Geospatial Overview: Introduction to Geospatial Technology, Natural and Man made features, Geospatial features.:Why to study Geospatial Technology?, Remote sensing, Geographic Information System, Geographic Positioning System.Importance of Geospatial Technology	Students will be knowing geospatial technology as a subject and its importance.	-
II	1 May 2023	26 May 2023	19 Days	Employability Skill Unit 1: Communication Skills: 1-Methods of Communication: Verbal, Non-verbal, Visual,Identify specific Communication styles,Communication styles-assertive, aggressive, passive aggressive, submissive, etc.	In employability skill learners will understand methods of Communication: Verbal, Non-verbal, Visual,Identify specific Communication styles,Communication styles-assertive, aggressive, passive aggressive, submissive, etc.	-
III	3 July 2023	21 July 2023	15 Days	Ch-2 Maps and Cartography: What are Maps and their Importance, Map Scale and Types.Types of Maps , Elements of Maps and Indexing,work and leisure, using different optimization tools to break large tasks into Smaller tasks. Employability Skill 3- Demonstrate basic writing skills: Writing skills to the following: Sentence,Phrase,Kinds of Sentences,Parts of Sentence,Parts of Speech, Articles, Construction of a Paragraph.	Students will be knowing the difference between maps and globes, its importance and the elements of the maps.	Activity Students will make and account on school bhuvan site and will mark the five Point,line and polygon features of any five cities of India



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IV	24 July 2023	11 August 2023	15 Days	<p>Ch-3, Remote Sensing: Overview of Remote Sensing, Fundamentals of Remote Sensing.</p> <p>Employability Skill</p> <p>Unit 2 Self-management Skills</p> <p>1. Demonstrate impressive appearance and grooming: 1. Describe the of dressing appropriately, looking decent and positive body language 2. Describe the term Grooming 3. Prepare a personal grooming checklist 4. Describe the techniques of self-Exploration</p>	Students will be knowing remote sensing as a technology and its importance and application in our daily life.	-
V	14 August 2023	1 September 2023	13 Days	<p>Ch-3, Remote Sensing contd..Physics of Electromagnetic Radiation, Remote Sensing Platforms , Sensors and Data Products.Indian Remote Sensing Satellite Systems, Remote Sensing Applications. Analysis of Toposheet and Weather Charts.</p> <p>Employability Skill</p> <p>2. Demonstrate teamwork skills: 1. Describe the important factors that influence in team building 2. Describe factors influencing teamwork.:Map Coordinate System, Interpretation Of Satellite Images. 3-Apply time management strategies and techniques: 1. Meaning and importance of time management – setting and prioritizing goals,creating a schedule, making lists of tasks, balancing</p>	Learners will understand the EMR, different platform remote sensing, sensors. Remote sensing satellite system in India.	-
VI	4 September 2023	12 September 2023	6 Days	<p>Ch-4, Geographic Information System:Fundamentals of GIS, Components of GIS.</p> <p>Employability Skill</p> <p>Unit 3: Information & Communication Technology</p> <p>Create a document on word processor: 1. Introduction to word Processing. 2. Software packages for word processing. 3. Opening and exiting the word processor. 4. Creating a document</p>	Students will be knowing about the Fundamentals of GIS, and its components	-



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VII	29th September 2023	13 October 2023	11 Days	Ch-4, Geographic Information System Cont'd....:GIS Data Acquisition, Data Types of GIS Employability Skill Edit, save and print a document in word processor: 1. Editing Text,2. Wrapping and aligning the text,3. Font size, type and Face, 4. Header and Footer, 5. Auto correct, 6. Numbering and bullet, 7. Creating table 8. Find and replace, 9. Page numbering., 10. Printing document, 11. Saving a document in various formats.	Learners will be knowing how to acquire the data from GIS and data types.	-
VIII	16 October 2023	10 November 2023	18 Days	Ch-4, Geographic Information System Contd....: Applications of Geographic Information System Employability Skill Unit 4: Entrepreneurial Skills 1. Describe the significance of entrepreneurial 1. Values in general and entrepreneurial values 2. Entrepreneurial value orientation with respect to innovativeness, independence, Outstanding performance and respect for work	Learners will be knowing the applications of gis in our practical life.	ART ACTIVITIES : Students can Prepare a PPT on applications of Remote sensing, GIS and GPS
IX	16 November 2023	8 December 2023	15 Days	Ch-5, Global Positioning System:Overview of Global Positioning System Functions of GPS. Employability Skill 2. Demonstrate the knowledge of attitudinal changes required to become an entrepreneur: 1. Attitudes in general and entrepreneurial Attitudes 2. Using imagination 3. Intuition Tendency to take moderate risk 4. Enjoying freedom of expression and action 5. Looking for economic Opportunities 6. Believing that we can change the Environment 7. Analyzing situation and planning action 8. Involving in activity	Students will be knowing the process and working of GPS and its functions.	



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

X	11 December 2023	29 December 2023	14 Days	Ch-5, Global Positioning System Contd... Segments of GPS, Factors Affecting GPS Data Employability Skill Unit 5: Green Skills 1. Describe importance of main sector of green economy: 1. Main sectors of green economy- E waste management, green transportation, renewal energy, green construction, water Management 2. Policy initiatives for greening economy in India	Students will be knowing the segments of GPS, and will analyze how the factors affect GPS Data.	
XI	8 January 2024	25 January 2024	13 Days	Ch-5, Global Positioning SystemContd... : Applications of Global Positioning System. Employability Skill 2. Describe the major green Sectors/Areas and the role of various stakeholder in green economy: 1. Stakeholders in green Economy 2. Role of government and private agencies in greening cities, buildings, tourism, industry, transport, renewable energy, waste management, agriculture, water, forests and fisheries	Students will be understanding the applications of the Global Positioning System.	
XII	29 January 2024	16 February 2024	15 Days	PPT Presentation		
XIII	19 February 2024	23 February 2024	5Days	Revision		

ANNUAL EXAMINATION: 26 February 2024 - 13 March 2024



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XI				Subject: Physical Education	Name of the Teacher: Arjun Bisht	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art
I	17 Apr 23	28 Apr 23	10 Days	<p>Unit I- Changing Trends & career in Physical Education. concept, aims & objectives of Physical education. Development of physical education in India post Independence. Changing trends in Sports- playing surface, wearable gear and sports equipment, technological advancements. Career options in P.E. Khelo India program and Fit India program.</p>	<p>Students will understand the concept of physical education and they will get to know the career options in the field of physical education. To educate students about the development of sports surfaces, wearable gear, sports equipment and technology. Students will get to know about the Aim & Objectives of Khelo India Program.</p>	PPT on different career options.
II	1 May 23	26 May 23	19 Days	<p>Unit-II- Olympism - Concept & Olympics Values. Olympic value education. Ancient & Modern Olympic. Olympics - Symbols, motto, flag, Oath & anthem. Olympic movement structure - IOC, NOC, IFS, Other members.</p> <p>Unit III - Yoga - Meaning & importance of Yoga. Introduction to Astanga Yoga. Yogic Kriyas. Pranayama and its types. Active lifestyle and stress management through yoga.</p>	<p>Through this chapter students will get to know about the important things related to Olympics like Olympics value, motto, symbols, ideals etc. and how Olympic games work. To make students learn about the working and functioning of IOC, NOC and IFS and other members.</p> <p>Students will be able to demonstrate different asanas. They will be able to understand the concept of relaxation technique and will be able to perform yogic kriyas. They also understand the importance of yoga in stress management.</p>	Different test activities to check fitness level.
Summer Vacation: 29th May to 30th June						



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

III	3 July 2023	21 July 2023	15 Days	<p>Unit IV - Physical Education and Sports for Children with Special Needs.</p> <ul style="list-style-type: none"> • Concept of Disability and Disorder. • Types of Disability, it's causes and nature. • Disability Etiquette • Aim and objectives of adaptive physical education. • Role of various professionals for children with special needs. 	<ul style="list-style-type: none"> • To make students aware of the concept of Disability and Disorder. • To make students learn about Disability Etiquette. • To make the students understand the aims and objectives of Adaptive physical education. • To make students aware of the role of various professionals for children with special needs. 	Working in a group, design a booklet for your school library on Disability Etiquette.
IV	24 July 23	11 Aug 23	15 Days	<p>Unit V-Physical Fitness, wellness and Lifestyle</p> <p>Meaning and importance of wellness, Health and physical fitness.</p> <p>Components of wellness, Health and physical fitness.</p> <p>Traditional Sports & regional games for promoting wellness.</p> <p>Leadership through physical activity and sports.</p>	<p>They can identify and assess their own fitness markers. Performs various exercise activities at a level that will lead to improvement in fitness. Through the knowledge of health related fitness they maintain a healthy blood pressure and resting heart rate.</p> <p>To make students learn Traditional sports & regional games to promote wellness.</p> <p>To develop leadership qualities through physical activity and sports in students.</p>	
V	14 Aug 23	1 Sep 23	13 Days	<p>Unit VI- Test, Measurement and Evaluation</p> <p>Define Test, measurement and evaluation.</p> <p>Importance of test, measurement and evaluation in sports.</p> <p>Calculation of BMI, Waist- Hip ratio, skin fold measurement.</p> <p>Measurement of health related fitness.</p>	<p>Students will understand the importance of Test, measurement & evaluation in the field of sports. They will also understand the guidelines of preparing a test.</p> <p>To introducing them the methods of calculating BMI, Waist-Hip ratio and skin fold measurement.</p> <p>To make the students aware of different somatotypes.</p>	Prepare a test for particular skills of any game.



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VI	4 Sep 23	12 Sep 23	6 days	Revision for the first term		
VII	29 Sep 23	13 Oct 2023	11 Days	Unit VII- Fundamentals of Anatomy, Physiology in sports Definition and importance of Anatomy and Physiology in exercise and sports. Functions of Skeletal System, classification of bones and types of joints. Properties and functions of muscles. Structure and functions of Circulatory system and Heart. Structure and functions of respiratory system.	Students will understand the main functions and classification of bone and the types of joints. Students will understand how different systems works and the responses of exercise on it. They will also understand the functions of different systems in the context of sports.	
VIII	16 Oct 23	10 Nov 23	18 Days	Unit VIII-Fundamentals of Kinesiology and Biomechanics in Sports Definition and importance of kinesiology and Biomechanics in sports. Principles of biomechanics. Kinetics and kinematics in sports Types of Body movements-flexion, Extension, Abduction, Adduction, Rotation, Circumduction, Supination & Pronation. Axis and Planes-concept and its application in body movements.	To make the students learn the principle of biomechanics and they also understand the concept of kinetics and kinematics in sports. students also learn different types of body movements. to make the students understand the concept of axis and planes and its application in body movements.	Prepare a Chart on different movements.
IX	16 Nov 23	8 Dec 23	15 Days	Unit IX- Psychology & Sports Definition & importance of Psychology in P.E. and sports. Developmental Characteristics at different stages of development. Adolescent problems and their management. Team cohesion and sports. Introduction of Psychological attributes: attention, resilience, mental toughness.	They will understand the role of Psychology in the field of sports and they also get to know the management related to the problem of adolescent. Students will be able to understand the importance of team cohesion in sports. Students will distinguish different Psychological Attributes like attention, resilience & mental toughness.	



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

X	11 Dec 23	29 Dec 23	14 Days	Unit X-Training and Doping in Sports Concept and Principle of sports training. Training load: Over load, Adaptation and recovery. Warming up & cooling down. Concept of skill, Technique & Strategies. Concept of Doping and its disadvantages.	They will understand the concept of sports training and able to use the principles of sports training in their sports training. They also know the prohibited substances in sports and their side effects. To make students understand the importance of warming up and limbering down. To introduce the terms like skills, Techniques, Tactics and strategies to the students.	Compare Warming up and cooling down for different climate. (Prepare chart)
WINTER VACATION: 30 December 2023 to 6th January 2024						
XI	8 Jan 2024	25 Jan 2024	13 Days	Class test, Project file work. SAI KHELO INDIA TEST, Brockport test.		
XII	29 Jan 2024	16 Feb 2024	15 Days	Revision for Annual Examination		
XIII	19 Feb 24	23 Feb 24	5 Days	Revision for Annual Examination		
ANNUAL EXAMINATION : 26th February 2024 to 13 March 2024						



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XI			Subject: INFORMATICS PRACTICES (065)		Name of the Teacher: DIVAKAR KAUSHIK	
Module/Duration			No. of Days	Chapters and Topics to be Taught	Learning Objectives	Activity Planned/ Integration of Art
I	17th April 2023	28th April 2023	10 Days	Unit 2: Introduction of Python: Basics of Python programming, Python interpreter - interactive and script mode, the structure of a program, indentation, identifiers, keywords, constants, variables, types of operators, precedence of operators, data types, mutable and immutable data types, statements, expressions, evaluation and comments, input and output statements, data type conversion, debugging.	Knowledge- Understanding of Python fundamentals: About Python: <ul style="list-style-type: none"> ● Inventor ● Pros/Cons ● Real world application. ● Use of Python IDLE ● Python fundamentals 	Activity: Installation of Python IDLE 3.11 Use of Interactive mode and Script mode. Implementation of the following concept: <ul style="list-style-type: none"> ● keywords ● operators <ul style="list-style-type: none"> ○ Arithmetic operators ○ Relational operators. ○ Logical Operators. ○ Membership Operators ● Python Basics Codes
II	1 st May 2023	26 th May 2023	19 Days	Operator Precedence Built in functions: str(), int(), ord(), id() etc. Statements and their types: Control Statements: if-else, if-elif-else, range() function and its usage, while loop, for loop	Knowledge- To understand the inbuilt function and their working in python. To understand how a learner can implement the decision making statements using if-else, if-elif-if, etc. To Understand interactive statements by for loop and while loop.	Activity: Python codes based on if-else, if-elif-else and loop. Find an even and odd number, Find number is positive or not, Find greatest number out of three or two, Find number is Armstrong or not, Find number is Palindrome or not. Display numbers in series. Display even number series 10, 20, 30... Display ODD number series 1, 3, 5,... Display number in reverse order. Print sum of 3 digit numbers like 235 = 10. Reverse of 3 digit numbers like 137 = 731. etc



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

III	3 rd July 2023	21 st July 2023	15 Days	<p>Lists: list operations - creating, initializing, traversing and manipulating lists, list methods and built-in functions: len(), list(), append(), insert(), count(), index(), remove(), pop(), reverse(), sort(), min(), max(), sum() etc.</p> <p>List Operations: Concatenation, Slicing, Repetition, membership and list manipulation etc.</p>	<p>Knowledge- Learner will understand how LIST data structure or data type works in Python.</p> <p>They will understand the working of different types in-built functions of the list and list manipulation.</p>	<p>Activity – Creation of LIST in different ways. List using for loop and range function.</p> <p>Implementation of list function like: add new element in list at the end, at specific position, count the number of elements in list, sum of list of elements. Find elements from the list index wise or element wise. Sorting of list.</p>
IV	24 th July 2023	11 th August 2023	15	<p>Dictionary: concept of key-value pair, creating, initializing, traversing, updating and deleting elements.</p> <p>Dictionary methods and built-in functions: dict(), len(), keys(), values(), items(), update(), del(), clear()</p>	<p>Knowledge-To get a fair understanding of how our Dictionary will be created in Python, why is it required? Implementation of different features of dictionaries using functions.</p>	<p>Activity – Creation of an empty dictionary. Using a list of values. Traversing using a dictionary. Displaying items using keys(), values() and items() methods.</p>
V	14 th August 2023	1 st September 2023	13 Days	<p>Unit 3: Database concept and SQL</p> <p>Concept of Data:</p> <ul style="list-style-type: none"> • What is Data? • Types of Data (Structured and Unstructured data) <p>File System: Limitation of File system, File system vs DBMS</p> <p>Database Concepts: Introduction to database concepts and its need, Database Management System.</p> <p>Relational data model: Concept of domain, tuple, relation, candidate key, primary key, alternate key.</p>	<p>Knowledge- 1. Learners will understand the basic concept behind the data storage in a database. Like data, file system, key concept of database and other terminology of database like DBMS, RDBMS, tuple, rows, attributes</p>	<p>Activity: Installation of MySQL 8 on windows. Creation of Database and Tables. Applying Keys like the primary key on Tables. Check the description tables and other properties.</p>



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VI	4 th September 2023	12 th September 2023	6 Days	Revision for Half yearly Examination: <ul style="list-style-type: none"> ● Python Fundamentals ● List in Python ● Dictionary in Python 	Knowledge: Learners will revise the core concept of python programming language as per the syllabus of the exam.	Activity: Tests will be conducted in classes based on the syllabus. Programs will be given on python fundamental, list and dictionary.
VII	29 th Sept 2023	13 th October 2023	11 Days	Data Definition: Create DATABASE, Create TABLE, Insert the Records in table. Select Operations on Table. Select command with where clause. Use of relational operator Use of between-and. Use of like with % and _ symbol. Use of Update and Delete commands.	Knowledge: Learners will stand the different types of SQL commands like DDL and DML. How to create the database and tables.	Activity: Creation of Database. Creation of tables. Insertion of records in tables. Fetching records based on select and where clause.
VIII	16 th October 2023	10 th November 2023	18 Days	Data Query: What is ALTER command and its implementation? What is DROP command and its implementation? Operation based on ALTER and DROP: <ul style="list-style-type: none"> ● Add a new column. ● Drop existing column ● Change data type of column. ● Change the column names. ● Rename the existing table name ● Drop table and database. 	Knowledge: Learners will understand the purpose of ALTER and DROP. (DDL Commands) Their implementation and working. Use of DROP command with ALTER command. Knowledge: Learners will understand the concept of DBMS by applying on different DBMS projects.	Activity: Creation of student table with column name as: Admno, Rollno, Name, Address, Phone, Marks. Insert 15 records. Apply ALTER and DROP.



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IX	16 th November 2023	8 th December 2023	15 Days	Mini Projects on Database: <ul style="list-style-type: none"> • Project on Sport Database • Project on Student Database • Project on Employee Database 		Activity: Creation of Sport, Student and Employee database based on group of students
X	11 th December 2023	29 th December 2023	14 Days	Unit 4: Introduction to the Emerging Trends Artificial Intelligence, Machine Learning, Natural Language Processing, Immersive experience (AR, VR), Robotics, Big data and its characteristics, Internet of Things (IoT), Sensors, Smart cities, Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Block chain technology.	Knowledge: Learners will understand the different types of Emerging trends like AI, IoT and cloud services.	Activity: Create PDF based on emerging trends.
XI	8 th January 2024	25 th February 2024	13 Days	Unit 1: Introduction to Computer System Introduction to computer and computing: evolution of computing devices, components of a computer system and their interconnections, Input/output devices. Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery and related security concerns. Software: purpose and types–system and application software, generic and specific purpose software.	Knowledge: Learners will understand the basic concept of Computer systems. Like memory and software.	Activity: Create a list of emerging trends in computer systems based on memory.



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

XII	29 th January 2024	16 th February 2024	15 Days	Programming Practice in Python Creation of python programs based on 1. Operators 2. Strings 3. Dictionaries.	Knowledge: Learners will practice the Python codes	Activity: 1. To print the first 'n' multiples of a given number. 2. To count the number of vowels in the user entered string. 3. To print the words starting with an alphabet in a user entered string. 4. To print the number of occurrences of a given alphabet in each string. 5. Create a dictionary to store names of states and their capitals. Other programs based on Python.
XIII	19 th February 2024	23 rd February 2024	5 Days	Revision for Annual Examination Syllabus		
ANNUAL EXAMINATION: 26 February 2024 - 13 March 2024						



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XI D			Subject: Political Science		Name of the Teacher: Mr. Abhishek Sharma	
Module/Duration		No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
I	17/04/2023	28/4/2023	10 DAYS	PART A: INDIAN CONSTITUTION AT WORK Chapter 1: Constitution : Why and How? & Chapter 2: Rights in the Indian Constitution <ul style="list-style-type: none"> ● Constitution: The Philosophy and Making of the Constitution. ● Fundamental Rights and Duties, Directive Principles of State Policy ● Constitutional Amendments. 	<ul style="list-style-type: none"> ● Understand the need for a constitution. ● Explain the scope of Fundamental rights ● Analyze the utility of rights in the contemporary scenario ● To Enable the student to understand the importance of constitution ● To understand the structure of executive, legislature and judiciary ● To understand philosophy of fundamental rights and duties ● build their critical thinking skills Will able to know the value of constitution after knowing that countries that have constitutions are not necessarily democratic. But all countries that are democratic will have constitution. ● Able to analyse the different circumstances while leaders were framing the constitution. Appreciate the manners in which the Constituent Assembly worked gives sanctity to the constitution. Critical thinking that how constitution does not 	PPT PRESENTATION



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

II	01/05/2023	26/05/2023	19 DAYS	<p>PART A: INDIAN CONSTITUTION AT WORK Chapter 3: Elections and Representation</p> <ul style="list-style-type: none"> ● Elections and Democracy, ● Election System in India, ● Electoral Reforms. <p>Chapter 4: Executive</p> <ul style="list-style-type: none"> ● Parliamentary Executive in India: the President, ● the Prime Minister and the Council of Ministers. <p>Permanent Executive: Bureaucracy</p>	<ul style="list-style-type: none"> ● Examine the efficiency of reservation of constituencies Assess the electoral reforms ● Familiarize with Indian electoral system. ● Reason out for the adoption of present Indian Electoral System. ● Develop an appreciation of citizen's increased participation in electoral politics. ● Recognize the significance of the Election Commission. ● Critical analyzation that why elections considered essential.. ● Examine the different types of Executive. ● Understand the role and functions Prime Ministers and Council of Ministers ● describe the roles of the president list the qualifications and terms of the president ● identify the order of presidential succession list the president's executive and foreign-policy powers ● describe the judicial and legislative powers of the president • discuss how presidential power has grown over the years ● describe the electoral college ● explain how presidential candidates are nominated ● discuss how convention delegates are chosen ● describe the format for national conventions ● understand the meaning of specialized terminology related to the presidency 	PANEL DISCUSSION
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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

III	03/07/2023	21/07/2023	15 DAYS	<p>PART A: INDIAN CONSTITUTION AT WORK</p> <p>Chapter 5: Legislature</p> <ul style="list-style-type: none"> • Why do we need a Parliament? • Unicameral/Bicameral • Legislature, Functions and Power of the Parliament, • Parliamentary Committees, Parliamentary Officials: • Speaker, Deputy Speaker, Parliamentary Secretary. 	<ul style="list-style-type: none"> • Understand the role and functions Prime Ministers and Council of Ministers. • Assess the need for a strong Parliament • Define 'parliamentary government' • explain how a parliamentary government works • discuss examples of parliamentary government in the world 	<p>Study and use of various media and techniques to the extent of their availability.</p> <p>PPT Collage and mosaic work with a variety of coloured papers and coloured printed pictures/photographs from magazines and newspapers (MEGHALAYA)</p>
IV	24/07/2023	11/08/2023	15 DAYS	<p>PART B : POLITICAL THEORY</p> <p>Chapter 1 : Political Theory: An Introduction 12 Periods</p> <ul style="list-style-type: none"> • What is Politics? • Politics vs Political Theory, • Importance of Political Theory. <p>Chapter 2: Liberty</p> <ul style="list-style-type: none"> • Liberty vs Freedom, • Negative and Positive Liberty. 	<ul style="list-style-type: none"> • understand the need for studying Political Theory. • explain the scope of Political Theory.- • understand the link between Positive and negative freedom. • examine the efficacy of dialogical mode of justice • critically evaluate J. S. Mill's Harm Principle. • assess the efficacy of self-regarding and other regarding actions- • explain different approaches to politics and build their own understanding of politics. • Evaluate the role state plays so much central place in the discourses on politics. 	<p>The learner understands what is meant by Politics and Political Theory. Identifies important political thinkers in India and in the world. Explains Equality, Justice and Democracy. Write short notes on Kautilya, Aristotle and Dr. BR. Ambedkar</p> <p>Prepare a chart on some of the recent amendments to the Constitution. Collect cartoons from newspapers and magazines and write down the messages they convey politically.</p>



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

V	14/08/2023	01/09/2023	13 DAYS	<p>PART A: INDIAN CONSTITUTION AT WORK Chapter 6: Judiciary</p> <ul style="list-style-type: none"> • Why do we need an Independent Judiciary? • Structure and Jurisdiction of the Judiciary, • Judicial Review, Judicial Activism, Judicial Over-reach. 	<ul style="list-style-type: none"> • Explain the need for an Independent • Judiciary Analyze • Judicial Activism from the late 1980s 	STREET PLAY
VI	04/09/2023	12/09/2023	6 DAYS	REVISION FOR HALF YEARLY EXAMINATION		
VII	29/09/2023	13/10/2023	11 DAYS	<p>PART B : POLITICAL THEORY Chapter 3: Equality</p> <ul style="list-style-type: none"> • What is Equality? • Significance of Equality, • Various Dimensions of Equality, • How can we promote Equality? <p>Chapter 4: Justice</p> <ul style="list-style-type: none"> • What is Justice? • Different Dimensions of Justice, • Distributive Justice. 	<ul style="list-style-type: none"> • Understand the need for Social equality. • Evaluate Ambedkar's view on Social Justice.- • understand the need for Social equality. • explain the scope of Feminist theory.- • understand the link between Equality and Affirmative Action.- • examine the efficacy of different dimensions of equality. • evaluate Ambedkar on Social Justice.- Free Market Economy- 	<p>explains the importance of freedom for self and the society.</p> <p>explains the difference between positive and negative</p> <p>Collect important quotes of eminent personalities like Mahatma Gandhi and Subhash Chandra Bose</p>



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VIII	16/10/2023	10/11/2023	18 DAYS	<p>PART B : POLITICAL THEORY</p> <p>Chapter 5:Rights</p> <ul style="list-style-type: none"> • What are Rights? • History of Rights • Kinds of Rights, Human Rights. <p>Chapter 6: Citizenship</p> <ul style="list-style-type: none"> • Citizen and Citizenship • Citizen and Nation • Global Citizenship 	<ul style="list-style-type: none"> • Understand the need for Rights and the state • Explain the scope of different dimensions of rights • Evaluate Refugee problem and global citizenship.- • understand the need for Rights and the state • explain the scope of different dimensions of rights • understand the link between Legal rights and the state • examine the efficacy of Universal and local citizenship.- • evaluate Refugee problem and global citizenship.- 	
IX	16/11/2023	08/12/2023	15 DAYS	<p>PART B : POLITICAL THEORY</p> <p>Chapter 7: Nationalism</p> <ul style="list-style-type: none"> • Nation and Nationalism, Variants of • Nationalism, Nationalism & Multiculturalism. 	<ul style="list-style-type: none"> • Understand the need for constituents of a nation • Explain Tagore's view on nationalism- • understand the need for constituents of a nation. • explain Tagore on nationalism.- • understand the link between nationalism and National Self- determination. • examine the efficacy of features of Indian secular state. • evaluate Western model of secularism.- • assess criticisms an defense of Indian secularism.- 	



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

X	11/12/2023	29/12/2023	15 DAYS	PART B : POLITICAL THEORY PART B : POLITICAL THEORY Chapter 8: Secularism	<ul style="list-style-type: none"> • understand the link between nationalism and National Self-determination. examine the efficacy of features of Indian secular state. • evaluate Western model of secularism.↵ • assess criticisms and defense of Indian secularism.↵
XI	08/01/2024	25/01/2024	13 DAYS	PART A: INDIAN CONSTITUTION AT WORK Chapter 7: Federalism Meaning of Federalism, Evolution & Growth of Indian Federalism: Quasi Federalism, Cooperative Federalism, Competitive Federalism. Chapter 8: Local Government- Why do we need Local Governments? Growth of Local Governments in India, 73 rd and 74 th Constitutional Amendments, Working and Challenges of Local Governments.	Develop a comprehensive understanding of conflicts in India's federal system, trace the growth of Local Government in India, understand decentralization via 73 rd and 74 th Amendments and assess problems related to implementation of 73 rd and 74 th Amendments.
XII	29/01/2024	16/02/2024	15 Days	PART B : POLITICAL THEORY Chapter 10: Development · Growth vs. Development, · Different Models of Development – · Welfare State Model, Market Model, Developmental Model	Models of development. critically evaluate economic model of development
XIII	19/02/2024	23/02/2024	05 Days	REVISION FOR ANNUAL EXAMINATION	

ANNUAL EXAMINATION: 26 February 2024 - 13 March 2024



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XI		Section: B, C and D		Subject: Psychology		Name of the Teacher: Ms. Satrupa Tyagi	
Module/Duration				Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
Module	From	To	No. of Days				
TERM –I resumes from 17 April 2023							
I	17 April 2023	28 April 2023	10 Days	Chapter 1: Introduction to Psychology Introduction What is Psychology? Understanding Mind and Behaviour Popular Notions about the Discipline of Psychology Evolution of Psychology Development of Psychology in India Branches of Psychology Psychology and Other disciplines Psychology in Everyday Life	Understand the nature and role of psychology in understanding mind and behaviour. Knowing the roots and history of psychology. Know the different fields of psychology, its relationship with other disciplines, and professions. Appreciate the value of psychology in daily life to help you understand yourself and others better. Emerging trends in psychology.	Making posters about how psychology can be useful in day to day life OR branches of Psychology	
II	1 May 2023	26 May 2023	19 Days	Chapter 2: Methods of Psychology Introduction Goals of Psychological enquiry Some Important Methods in Psychology Quantitative Method Qualitative Method Limitations of Psychological Enquiry Ethical Issues	Know the goals and nature of psychological enquiry. Understand different types of data used by psychologists to understand behaviour. Describe methods of psychological enquiry, and understand the methods of analysing data. Learn about the limitations of psychological enquiry. Ethical considerations.	Take a Psychological test with its manual and read it carefully, and identify the following : <ul style="list-style-type: none"> • Number and type of items • Information about reliability, validity, and norms • Type of test: verbal or otherwise, individual or groups • Type of test: Speed, power, or mixed • Any other characteristics 	



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

SUMMER VACATIONS : 29 May to 30 June 2023

III	3 July 2023	21 July 2023	15 Days	Chapter 4: Human Development Introduction Meaning of Development Factors Influencing Development Context of Development Overview of Developmental Stages Infancy Childhood Challenges of Adolescence Adulthood and Old Age	Describe the meaning and process of development. Explain the influence of heredity, environment on human development. Identify the stages of development and describe the major characteristics of infancy, childhood, adolescence, adulthood and old age. Reflect on your own course of development and related experiences.	Students will be asked, “Think of your experiences during the last 1year and answer the following: Did you have confrontations with your parents? What were the main problems? How did you solve your problems, and whose help did you seek? Compare your list with your classmates. Are there any similarities? Can you now think of better ways of solving the problems faced by you?”
IV	24 July 2023	11 August 2023	15 days	Chapter 5: Sensory, Attentional and Perceptual Processes Introduction Knowing the World Attentional Processes Perceptual Processes The Perceiver Principles of Perceptual Organisation Perception of Space, Depth, and Distance Perceptual Constancies Illusions Socio-Cultural Influences on Perception	Understand the nature of sensory processes. Explain the processes and types of attention, Analyse the problems of form and space perception, Examine the role of socio-cultural factors in perception. Reflect on sensory, attentional and perceptual processes in everyday life.	Vision and hearing are generally believed to be the two most highly prized senses. What would your life be if you lost any one of your senses? Which sense would you find more traumatic to lose? Why? Think and write down. What if you could magically improve the performance of one of your senses, which sense would you choose to improve? Why? Could you improve the performance of this one sense without magic? Think and write down.
V	14 August 2023	1 Sep 2023	13 Days	COMPLETION OF ASSIGNMENTS AND NOTES		



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VI	4 Sep 2023	12 Sep 2023	06 Days	REVISION FOR HALF YEARLY EXAMINATION		
HALF YEARLY EXAMINATION: 13 th September 2022 to 30 th September 2022						
TERM- II Resume 3 rd October 2022						
VII	29 Sep 2023	13 Oct 2023	11 Days	Chapter 6: Learning Introduction Nature of Learning Paradigms of Learning Observational Learning Cognitive Learning Verbal Learning Skill Learning Factors Facilitating Learning Learning Disabilities	Describe the nature of learning, Explain different forms or types of learning and the procedures used in such types of learning Understand various psychological processes that occur during learning and influence its course. Explain the determinants of learning	Experiment on Learning
VIII	16 Oct 2023	10 Nov 2023	18 Days	Chapter 7: Human Memory Introduction Nature of Memory Memory Systems : Sensory, Short-term & Long-term Memories Levels of Processing Types of Long-term Memory Nature and Causes of Forgetting Enhancing Memory	Understand the nature of memory. Distinguish between different types of memory. Explain how the contents of long-term memory are represented and organised. Appreciate the constructive and reconstructive processes in memory. Understand the nature and causes of forgetting. Learn the strategies for improving memory.	Try to remember the following list of digits (individual digits) 1 9 2 5 4 9 8 1 1 2 1 Now try to memorise them in the following groups: 1 9 25 49 81 121 Finally memorise them in the following manner: 12 32 52 72 92 112 What difference do you observe?
IX	16 Nov 2023	8 Dec 2023	15 Days	Chapter 8: Thinking Introduction Nature of Thinking The Processes of Thinking Problem Solving Reasoning	Describe the nature of thinking Demonstrate an understanding of some cognitive processes involved in problem solving and decision-making. Understand the nature and process of	Experiment on Memory



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

				Decision-making Nature and Process of Creative Thinking Thought and Language Development of Language and Language Use	creative thinking and learn ways of enhancing it. Understand the relationship between language and thought. Describe the process of language development and its use.	
X	11 December 2023	29 December 2023	14 Days	Chapter 9: Motivation & Emotion Introduction Nature of Motivation Types of Motives Maslow's Hierarchy of Needs Nature of Emotions Expression of Emotions Managing Negative Emotions Enhancing Positive Emotions	Understand the nature of human motivation. Describe the nature of some important motives. Describe the nature of emotional expression. Understand the relationship between culture and emotion. Know how to manage your own emotions	Make/ draw faces with different types of emotions and discuss why people differ in expressing emotions.
WINTER VACATION : 31 December 2023 to 6 January 2024						
XI	8 January 2024	25 Jan 2024	13 Days	Practical file submission		
XII	29 Jan 2024	16 Feb 2024	15 Days	Worksheets and Mock tests		
XIII	TERM II SYLLABUS COMPLETION- 16 Feb 2024					
XIV	19 Feb 2024	23 Feb 2024	5 Days	REVISION FOR ANNUAL EXAMS		
ANNUAL EXAMINATION: 26 February 2024 to 13 March 2024						



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XI			Subject: English		Name of the Teacher: Panchali Deb	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art
I	17 April 2023	28 April 2023	10 Days	Literature The Portrait of a Lady. A Photograph Reading Comprehension Writing Skills -Poster Making.	Enable the students to- <ul style="list-style-type: none"> develop responsibility and sensitivity towards grandparents and other relations in the family. know the sacrifices and support given by the family. show concern for animals. develop an independent attitude in thought and actions. Understand that death is the inevitable end of all.. 	Rummage through your photo album and select a photograph taken when vacationing with your family or during any celebration. Or Write a letter to your grandmother from your hostel telling her how you miss her and remember her love and care all through your childhood.
II	1 May 2023	26 May 2023	19 Days	Literature The Summer of the Beautiful White Horse. We're not afraid to die.. if We Can all be Together The Laburnum Top Writing Skills -Note Making: Introduction Grammar: Tenses.	To enable the students to- <ul style="list-style-type: none"> read and understand between lines. understand the importance of societal norms and family values. realise that hazardous experience teaches us to face adverse situations. 	A paper yacht is to be made and various parts of the yacht to be identified and labelled.
III	3 July 2023	21 July 2023	15 Days	Literature Discovering Tut: the Saga Continues. The Address Long Writing Skills: Debate Grammar: Sentence Reordering.	To enable the students to- <ul style="list-style-type: none"> learn about various Egyptian beliefs. analyse the situation and characters of the chapter. develop respect for the rituals and customs of others 	Write a Diary entry talking about how you felt on seeing your mother's belongings in a different setup.



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IV	24 July 2023	11 August 2023	15 Days	Literature The Adventure Mother's Day (Play) Grammar - Clauses Writing Skills -Speech Writing.	To enable the students to- <ul style="list-style-type: none"> ● imbibe values like care and concern, empathy, compassion, respect for elders. ● understand, enjoy and appreciate plays. ● imbibe values like care and concern, empathy, compassion, respect for elders. 	1. Role Play: will be done by the students. 2. Talk: Is drama a good medium for conveying a social message?
V	14 August 2023	1 September 2023	13 Days	Literature: Childhood Short Writing task: Classified Advertisement:	To enable the students to- <ul style="list-style-type: none"> ● When do children start thinking maturely and stop blindly believing all that is told to them. ● understand, enjoy and appreciate different genres of English writings. 	Discussion: Is attainment of maturity a sign of loss of innocence?
VI	4 September 2023	12 September 2023	06 Days	Revision For Half Yearly		
VII	29 September 2023	13 October 2023	11 Days	Literature: The Tale of the Melon City Grammar: Integrated Grammar	Students will be able to- <ul style="list-style-type: none"> ● Understand satire, learn to appreciate the poem and its literary devices ● appreciate the aesthetic writing. 	Name different types of poems and explain how they are written. Eg. Sonnet, Haiku etc.
VIII	16 October 2023	10 November 2023	18 Days	Literature Father to Son Birth Writing Skills-Note Making Grammar- Clauses	Students will be able to- <ul style="list-style-type: none"> ● Understand that a cordial relationship is a must between father and son. ● understand how the generation gap can create misunderstandings. 	* A flipbook drawing showing the distance growing between two people OR Write an article on the topic- 'Doctor-A Noble Profession'



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IX	16 November 2023	8 December 2023	15 Days	Literature Silk Road Writing Skills- Debate	Students will be able to- <ul style="list-style-type: none">● know more about Tibet● know why the silk road was called silk route.● learn why this route was important for ancient trade.	Write a travelogue as a first-person narrative describing your recent vacation.
X	11 December 2023	29 December 2023	14 Days	Literature The Voice of the Rain Reading Comprehension	Students will be able to- <ul style="list-style-type: none">● appreciate nature and the aesthetic writing.● identify the figures of speech.	Write a speech on Necessity of Water Cycle for the sustenance of life.
XI	8 January 2024	25 January 2024	13 Days	Revision		
XII	29 January 2024	16 February 2024	12 days	Writing Skills- Note Making, Classified Advertisement, Debate and Speech Activity- ASL		
XII	19 February 2024	23 February 2024	5 days	Revision for Annual Examination. ANNUAL EXAMINATION 26 February 2024-13 March 2024		



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XI		Section: C		Subject: HISTORY		Name of the Teacher: RITU PRIYA	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
Module	From	To					
I	17/04/2023	28/04/2023	10	Ch-2 Writing and City life 1. Mesopotamia and its Geography 2. The Significance of Urbanism, 3. Movement of Goods into Cities, 4. The Development of writing, 5. The System of Writing, 6. The uses of Writing,	a) To discuss the development of writing in Mesopotamia. b) To discuss the development of writing in Mesopotamia. c) To explain the Mesopotamians' family structure and the system of marriage.	1) Preparing timeline taking help of chronology of events as well as pictures. 2) MAP WORK	
II	01/05/2023	26/05/2023	19	Ch-2 Writing and City life 1. The Urbanization in Southern Mesopotamia: Temples and Kings 2. Life in the City 3. A Trading Town in a Pastoral Zone, 4. Cities in Mesopotamian Culture, 5. The Legacy of Writing 6. An Early Library and an early Archaeologist.	1. To know what ancient stories tell us about the civilization of Mesopotamia. 2. To discuss timeline with students	Students can prepare a brief write-up on the early water transport, lack of metal and stone, the division of labour and the use of seals.	
III	03/07/2023	21/08/2023	15	Ch- An Empire Across Three Continents The Early Empire The Third Century Crisis Gender, Literacy and Culture, Controlling Workers Social Hierarchies	d) To discuss the institution of slavery in Roman society. e) To discuss how historians use to study the Roman Empire. f) To understand 3 rd century crises. g) To discuss modern features of Roman society i.e prevalence of the nuclear family.	1. If you had lived in the Roman Empire, where would you rather have lived – in the towns or in the countryside? Explain why. 2. Compile a list of some of the towns, cities, rivers, seas and provinces mentioned in this chapter, and then try to find them on the maps. Can you say something about any three of the items in the list you have compiled? MAP WORK 3. Students will be asked to prepare a glossary of terms.	



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

V	14/08/2023	01/09/2023	13	Ch- Nomadic Empires Introduction, Social and Political Background, The Career of Genghis Khan, The Mongols after Genghis Khan, Social, Political and Military Organization, Conclusion: Situating Genghis Khan and the Mongols in World History.	<ol style="list-style-type: none">1. To understand how Mongol people were bound by ethnic and linguistic ties.2. To throw some light on socio-political background of the Mongols before the advent3. Explain the origins, course, and legacy of Genghis Khan's Mongol empire.4. Identify and discuss the key features of the Mongol empires after Genghis Khan.5. To understand the varieties of nomadic society and their institutions.	<p>If history relies upon written records produced by city-based literati, nomadic societies will always receive a hostile representation.' Would you agree with this statement? Does it explain the reason why Persian chronicles produced such inflated figures of casualties resulting from Mongol campaigns?</p> <p>To locate the places in the map and comprehend the spread of the nomadic society. Prepare a comparative timeline on these cultures. You may consult your books or any other resource that is available. Locate places in the world.</p>
VI	04/09/2023	12/09/2023	06	REVISION FOR HALF YEARLY EXAMINATION		
HALF YEARLY EXAMINATION 13 SEPTEMBER 2023 TO 27 SEPTEMBER 2023						



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VII	29/09/2023	13/10/2023	11	<p>Changing Cultural Traditions Focus: Europe 14th-17th century</p> <p>a) New ideas and new trends in literature and arts b) Relationship with earlier ideas c) The contribution of West Asia d) Historians' viewpoint on the validity of the notion 'European Renaissance.'</p>	<ol style="list-style-type: none">1. Explore the intellectual trends in the period.2. Familiarize students with the paintings and buildings of the period.3. Introduce the debate around the idea of 'Renaissance'.4. Analyze the causes, events, and effects of the Renaissance, Reformation, Scientific5. Revolution and Age of Exploration.6. Relate the different facets of Italian cities to understand the characteristics of Renaissance Humanism and Realism. <ol style="list-style-type: none">1) Compare and contrast the condition of women in the Renaissance period.2) Recognize major influences on the architectural, artistic, and literary developments in order to understand the facades of Renaissance.3) Critical analysis of the Roman Catholic Church by Martin Luther and Erasmus and their impact on later reforms.4) Evaluate the Roman Catholic Church's response to the Protestant5) Reformation in the forms of the Counter and Catholic Reformations	<ul style="list-style-type: none">● Analyse the causes, events, and effects of the Renaissance, Reformation, Scientific Revolution, and Age of Exploration.● Relate the different facets of Italian cities to understand the characteristics of Renaissance.● Humanism and Realism. Compare and contrast the condition of women in the Renaissance period.● Recognize major influences on the architectural, artistic, and literary developments to understand the facades of Renaissance.
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DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VIII	16/10/2023	10/11/2023	18	Ch-10, Displacing Indigenous Peoples The Gold Rush, and the growth of Industries Constitutional Rights The Winds of Change, AUSTRALIA,	<ul style="list-style-type: none">➤ To understand the term 'European Imperialism'➤ The theme tells the story of what European settlers did to the native peoples of America and Australia.➤ The natives and the Europeans represented competing notions of civilization	MAP WORK Compare the effects of the coming of the railways in different countries in the world. <ul style="list-style-type: none">➤ 'A National Sorry Day' as apology for the children lost from the 1820s to the 1970s: A Debate
IX	16/11/2023	08/12/2023	15	Ch-10 Displacing Indigenous Peoples The Winds of Change. European Imperialism, NORTH AMERICA The Natives Peoples, Encounters with Europeans Mutual Perceptions The Natives Peoples Lose their Land	<ul style="list-style-type: none">● Sensitize students to the processes of displacements that accompanied the Understand the implications of such processes for the displaced populations.● Reason out the causes of displaced population and its impact on society.	Compare and contrast the lives and roles of indigenous people in these continent MAP WORK



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

X	11/12/2023	29/12/2023	15	<p>Ch-11, Paths to Modernization Introduction, JAPAN: The Political System, The Meiji Restoration, Modernising the Economy, Industrial Workers, Aggressive Nationalism, 'Westernisation' and 'Tradition', Daily</p>		There are different paths to modernization. The theme tells a fascinating story of how different historical conditions led Japan and China on divergent paths to building independent and modern nations.: Students will prepare PPT
XI	08/01/2024	25/01/2024	13	<p>Ch-11, Paths to Modernization Introduction: CHINA: Introduction, Establishing the Republic, The Rise of the Communist Party of China, Establishing the New Democracy, The Story of Taiwan</p>	<ul style="list-style-type: none"> ➤ To understand the rise of the Communist Party of China. ➤ To understand Aggressive Nationalism. ➤ Summarize the nationalist upsurge in China from Dr Sun Yat Sen to Mao Ze Dong to understand the era of communism. ➤ To analyze the Chinese path to modernization under Deng Xiaoping and Zhou en Lai in order to understand the transformation from rigid communism to liberal socialism. 	PROJECT WORK: Facets of Modernization – China /Japan/Korea
XII	29/01/2024	16/02/2024	15	<p>Ch-11, Paths to Modernization Introduction: Establishing the New Democracy The Story of Taiwan The Story of Korea</p>	<ol style="list-style-type: none"> 1. To understand the question of reunification with the mainland remains a contentious issue.. 2. Role of Chiang Kai-shek who went on to establish a repressive government forbidding the freedom of speech, political opposition banned. 	DEBATE What is Taiwan's place in the history of China?
XIII	19/02/2024	23/02/23	05	REVISION FOR ANNUAL EXAMINATION		



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XI		Section: A		Subject: Physics		Name of the Teacher: ANKUSH SHARMA	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
Module	From	To					
TERM-I RESUMES EFFECTIVE FROM 17 April, 2023							
I	17 April 2023	28 April 2023	10	Chapter-1: Units and Measurements	Students also learn about the quantities and their measurement using their units.	1. To measure diameter of a small spherical body using Vernier Callipers 2. To measure external diameter, internal diameter and depth of a given beaker using Vernier Callipers and hence find its volume.	
II	01 May 2023	26 May 2023	19	Chapter-2: Motion in a Straight Line Chapter-3: Motion in a Plane	Students learn the basic concept of calculus method to derive three basic equations of kinematics and graphical treatment of different types of motion. Students learn about vectors, and their algebra.	3. To measure diameter of a given wire and thickness of a given sheet using screw gauge.	
SUMMER VACATION: 29 MAY, 2023 to 30 JUNE, 2023							
III	3 July 2023	21 July 2023	15	Chapter-3: Vectors and Motion in a Plane Chapter-4: Laws of Motion	Students learn about projectile motion of a body and calculation of its different parameters with real life examples. To clear the concepts of Force, Momentum and different laws of motion. Also to make the student aware of Dynamics of circular motion which solves many problems in our daily life.	4. To determine the radius of curvature of a given spherical surface by a spherometer.	



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IV	24 July 2023	11 August 2023	15	Chapter-5: Work, Energy and Power	To clear the concept Work, Energy and Power and its application in our daily life.	5. To find the weight of a given body using the parallelogram law of vectors.
V	14 August 2023	01 September 2023	13	Chapter-6: System of Rotational Motion and Particles	To clear the concepts of rotational dynamics and different parameters of rotating body	6. Using a simple pendulum, plot its $L-T^2$ graph and use it to find the effective length of second's pendulum.
TERM-I SYLLABUS COMPLETION- 1 September, 2023						
VI*	*REVISION FOR HALF YEARLY EXAMINATION					
	4 September 2023		12 September 2023		6 Days	
HALF-YEARLY EXAMINATION: 13 September 2023 to 27 December 2023						
TERM-II RESUMES EFFECTIVE FROM 29 SEPTEMBER 2023						
VII	29 September 2023	13 October 2023	11	Chapter-7: Gravitation Chapter-8: Mechanical Properties of Solids	To understand the concept of gravitational force and gravity with laws of planetary motion and detailed mathematical analysis of acceleration due to gravity above and below the surface of earth. To understand the concept of elasticity and rigidity of a body with stress strain analysis and applying it to solve real life problems.	7. To find the force constant of a helical spring by plotting a graph between load and extension.



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VIII	16 October 2023	10 November 2023	18	Ch-9 Mechanical Properties of Fluids	To understand the concept of Fluid dynamics and its applications in our daily life.	8. To determine the surface tension of water by capillary rise method.
IX	16 November 2023	08 December 2023	15	Chapter-10: Thermal Properties of Matter	To understand the concept of heat transfer between the bodies and its different methods along with its mathematical analysis and relating it to our daily life.	9. To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.
X	11 December 2023	29 December 2023	14	Chapter-11: Thermodynamics Chapter-12: Kinetic Theory of gases	To understand the concept of Thermodynamics and its different laws along with the concept of working of engine and refrigerator. To understand the concept of Motion of gaseous particles along with mathematical analysis of pressure exerted by a gas and K.E of gaseous particles.	10. To find the speed of sound in air at room temperature using a resonance tube by two resonance positions.
WINTER VACATION: 30 December 2023 to 6 January, 2024						
XI	08 January 2024	25 January 2024	18	Chapter-13: Oscillations	To understand the concept of Wave motion and SHM along with its different applications and mathematical analysis.	-
XII	29 January 2024	16 February 2024	15	Chapter-14: Waves and Revision	To understand the concept of Wave motion, Beats and relating it to our daily life.	-
TERM-II SYLLABUS COMPLETION- 16 February 2024						
XIII	19 Feb 24	23 Feb 24	5	*REVISION FOR ANNUAL EXAMINATION		
ANNUAL EXAMINATION: 26 February 2024- 13 March 2024						



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XI A			Subject: MATHEMATICS (041)	Name of the Teacher: DINESH TYAGI		
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art
Module	From	To				
I	17 April 2023	28 April 2023	10 days	Chapter-1 SETS Chapter-2 RELATIONS AND FUNCTIONS	Students will be able to <ul style="list-style-type: none"> • Define sets. • Differentiate between types of sets. • know about operation on sets • draw venn diagram • define ordered pairs and cartesian product • Define relation and their domain and range 	To find the number of subsets of a given set and verify that if set contains n elements then total number of subsets is 2^n To represent set operations using Venn Diagram
II	1 May 2023	26 May 2023	19 days	Chapter-2 RELATIONS AND FUNCTIONS (continued) Chapter-5 LINEAR INEQUALITIES Chapter -4 COMPLEX NUMBERS	Students will be able to <ul style="list-style-type: none"> • Define Function and their domain and range • Draw graph of some standard function and • Understand the concept of linear inequality. • Find solution of for linear inequation in one variable • Know about imaginary and complex numbers. • Apply operations on complex Numbers • Find Modulus and argument of complex numbers • Transform complex numbers in Polar form 	Activity on concept of Domain & Range of a Square root function.
SUMMER VACATION : 29 May 2023 to 30 June 2023						



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

III	03 July 2023	21 July 2023	15 Days	Chapter -3 TRIGONOMETRIC FUNCTIONS	Students will be able to <ul style="list-style-type: none"> Define angles and system for measuring angles Differentiate between T- ratios and Trigonometric Functions Sketch graph for various trigonometric functions. Concept of allied angles and quadrant system know about Compound Angles Transformation identities T - ratios of Multiple and sub multiple angles 	To plot the graphs of $\sin x$, $\sin 2x$, $2\sin x$ and $\sin x/2$ in same coordinate axes.
IV	24 July 2023	11 Aug 2023	15 Days	Chapter -6 PERMUTATIONS & COMBINATIONS Chapter 7 BINOMIAL THEOREM	Students will be able to <ul style="list-style-type: none"> understand concept of factorials Concept of Fundamental principle of counting concept of permutations and combinations Solve word problems based on PnC know about Pascal Triangle Apply binomial theorem for positive integral powers Solve problems related to binomial theorem 	To find the number of ways in which three cards can be selected from five cards. To construct a Pascal's Triangle and to write binomial expansion for a given positive integral exponent.
V	14 Aug 2023	01 Sep 2023	13 Days	Chapter -8 SEQUENCES & SERIES Chapter -9 STRAIGHT LINES	Students will be able to <ul style="list-style-type: none"> Understand concept of sequences and series Define Geometric Progression Find nth term and sum of n terms of GP. To understand concept of slope find slope for a given line. To find equation for a given line. To establish relationship between slopes under different conditions. To calculate the distance of a point from a line. 	Verify that equation of line passing through the point of intersection of two lines L1 and L2 is of the form $L1+K.L2=0$
VI	4 Sep 2023	12 Sep 2023	6 Days	REVISION FOR HALF YEARLY EXAM		

Half yearly examination : 13 September 2023 to 27 September 2023

TERM -II Resumes from 29 September 2023



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VII	29 Sep 2023	13 Oct 2023	11 Days	Chapter-09 Straight Lines (Contd) Chapter-10 Conic Sections	<p>Students will be able to</p> <ul style="list-style-type: none"> transform equation of a line from one form to another form Know about sections of a cone know about circles, Parabola, ellipse and hyperbola 	construction of different types of conic sections
VIII	16 Oct 2023	10 Nov 2023	18 Days	Chapter-10 Conic Sections (cont.) Chapter-12 Limits & Derivatives	<p>Students will be able to</p> <ul style="list-style-type: none"> To find equations of all conic sections. To solve word problems based on conic sections. know the concept of limits. concept of LHL and RHL know about various indeterminate forms find limits of function in various forms . understand concept of derivatives know about geometric interpretation of derivatives 	Verification of the geometrical interpretation of derivatives.
IX	16 Nov 2023	08 Dec 2023	15 Days	Chapter-12 Limits & Derivatives(Cont.)	<p>Students will be able to</p> <ul style="list-style-type: none"> find differentiation of function by first Principle Method differentiate mathematical functions. To use product rule & quotient rule in differentiating given functions. 	
X	11 Dec 2023	29 Dec 2023	14 Days	Chapter-11 Introduction to 3-D Geometry Chapter-13 Statistics	<p>Students will be able</p> <ul style="list-style-type: none"> to know about coordinates axes and octants in three dimensional space to know about coordinates of a point in space Find distance between two points in 3D space know about measures of dispersion find mean deviation from median & mean To find standard deviation & variance for given data. 	Explanation of Octants by three mutually perpendicular planes in space.

WINTER VACATION : 30 December 2023 to 6 January 2023



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

XI	8 Jan 2024	25 Jan 2024	13 days	Chapter-14 Probability	Students will be able <ul style="list-style-type: none">• To define sample space for given events.• To know about events and their types• to know about axiomatic approach• To find probability for different set of events.	Verification of addition theorem of probability.
XII	29 Jan 2024	16 Feb 2024	15 days	Chapter wise revision	students will be able to recall all the topics and their doubts will be entertained	-
XIII	19 Feb 2024	23 Feb 2024	5 days	REVISION FOR ANNUAL EXAMINATION		
ANNUAL EXAMINATION : 26 February 2024 to 13 March 2024						



LHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XI		Section: A		Subject: Chemistry		Name of the Teacher: Swati Lohani	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
Module	From	To					
I	17 April 23	28 April 23	10	Unit I: SOME BASIC CONCEPTS OF CHEMISTRY	Students will be able to <ul style="list-style-type: none">Describe the terms – mole and molar mass.Calculate the mass percent of component elements constituting a compound.Determine empirical formula and molecular formula for a compound from the given experimental data andPerform the stoichiometric calculations.	Basic Laboratory technique.	
II	01 May 2023	26 May 2023	19	Unit II: STRUCTURE OF ATOM Unit III: CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES	Students will be able to <ul style="list-style-type: none">Know about the discovery of electron, proton and neutron and their characteristics;Understand the important features of the quantum mechanical model of atom.Understand Planck's quantum theory.Explain the photoelectric effect and describe features of atomic spectra.State the de Broglie relation and Heisenberg uncertainty principle.State aufbau principle, Pauli exclusion principle and Hund's rule of maximum multiplicity;Write the electronic configurations of atoms.	Chromatography.	



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

III	03 July 2023	21 July 2023	15	Unit III: CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES Unit IV: CHEMICAL BONDING AND MOLECULAR STRUCTURE	Students will be able to <ul style="list-style-type: none">● Appreciate how the concept of grouping elements in accordance to their properties led to the development of Periodic Table.● Understand the Periodic Law.● Understand the significance of atomic number and electronic configuration as the basis for periodic classification● Explain the octet rule and its limitations, draw Lewis structures of simple molecules;● Explain the formation of different types of bonds.● Describe the VSEPR theory and predict the geometry of simple molecules.	Acid Base Titration
IV	24 July 2023	11 Aug 2023	15	UNIT IV: CHEMICAL BONDING AND MOLECULAR STRUCTURE UNIT VII: REDOX REACTIONS	Students will be able to <ul style="list-style-type: none">● Explain the valence bond approach for the formation of covalent bonds.● Predict the directional properties of covalent bonds.● Explain the different types of hybridisation involving s, p and d orbitals and draw shapes of simple covalent molecules.● Describe the molecular orbital theory of homonuclear diatomic molecules and explain the concept of hydrogen bond● Identify redox reactions as a class of reactions in which oxidation and reduction reactions occur simultaneously.● Define the terms oxidation, reduction, oxidant (oxidizing agent) and reductant (reducing agent).● Explain mechanism of redox reactions by electron transfer process.● Use the concept of oxidation number to identify oxidant and reductant in a reaction	Salt analysis- Acidic Radical Carobanate and Sulphide



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

V	14 Aug 2023	01 Sept 2023	13	UNIT VII: REDOX REACTIONS UNIT VIII: ORGANIC CHEMISTRY -SOME BASIC PRINCIPLES AND TECHNIQUES	Students will be able to <ul style="list-style-type: none">● Suggest a comparative order among various reductants and oxidants.● Balance chemical equations using oxidation number and half reaction method;● learn the concept of redox reactions in terms of electrode processes● classify the organic compounds; • name the compounds according to IUPAC system of nomenclature and also derive their structures from the given names;	Salt analysis- Acidic Radical Sulfite and Nitrite
VI	4 Sept 2023	12 Sept 2023	06	REVISION FOR HALF YEARLY EXAM		
VII	29 Sep 2023	13 Oct 2023	11	UNIT VIII: ORGANIC CHEMISTRY-SOME BASIC PRINCIPLES AND TECHNIQUES	Students will be able to <ul style="list-style-type: none">● learn the techniques of purification of organic compounds; • write the chemical reactions involved in the qualitative analysis of organic compounds● Understand the principles involved in quantitative analysis of organic compounds.	Salt analysis- Acidic Radical Chloride, Bromide and Iodide
VIII	16 Oct 2023	10 Nov 2023	18	UNIT IX: HYDROCARBONS	Students will be able to <ul style="list-style-type: none">● Draw and differentiate between various conformations of ethane.● Appreciate the role of hydrocarbons as sources of energy and for other industrial applications.● Predict the formation of the addition products of unsymmetrical alkenes and alkynes on the basis of electronic mechanism	Salt analysis- Acidic Radical Nitrate and acetate



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IX	16 Nov 23	08 Dec 23	15	UNIT IX: HYDROCARBONS	Students will be able to form different categories of hydrocarbons using simple inorganic materials.	Salt analysis- Acidic Radical Sulphate and Phosphate
X	11 Dec 23	29 Dec 23	14	UNIT V: THERMODYNAMICS	<p>Students will be able to</p> <ul style="list-style-type: none"> ● Explain the terms : system and surroundings ● Discriminate between close, open and isolated systems. ● Explain internal energy, work and heat. ● State first law of thermodynamics and express mathematically 	Salt analysis- Basic Radical Ammonium ion
XI	8 Jan 2024	25 Jan 2024	13	UNIT V: THERMODYNAMICS UNIT VI: EQUILIBRIUM	<p>Students will be able to</p> <ul style="list-style-type: none"> ● Identify dynamic nature of equilibrium involved in physical and chemical processes ● State the law of equilibrium and explain characteristics of equilibria involved in physical and chemical processes. ● Write expressions for equilibrium constants; • establish a relationship between K_p and K_c ● Explain various factors that affect the equilibrium state of a reaction. ● Classify substances as acids or bases according to Arrhenius, Bronsted-Lowry and Lewis concepts ● Classify acids and bases as weak or strong. 	Salt analysis- Basic Radical Lead ion



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

XII	29 Jan 2024	16 Feb 2024	15	UNIT VI: EQUILIBRIUM	Students will be able to ●Classify acids and bases as weak or strong in terms of their ionization constants. ●Explain the dependence of degree of ionization on concentration of the electrolyte and that of the common ion. ●Describe pH scale for representing hydrogen ion concentration. ●Explain ionisation of water and its dual role as acid and base. ●Describe ionic product (K_w) and pK_w for water ●Appreciate use of buffer solutions; • calculate solubility product constant.	Salt analysis- Basic Radical copper ion
XIII	19 Feb 2024	23 Feb 2024	5	REVISION FOR ANNUAL EXAMINATION		
ANNUAL EXAMINATION: 26 February 2024 - 13 March 2024						



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XI			Subject: APPLIED MATHEMATICS		Name of the Teacher: ASHISH PUNJ	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art
Module	From	To				
I	17 APR 2023	28 APR 2023	10 Days	UNIT – 1 NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS NUMBER THEORY LOGARITHMS & ANTI LOGARITHMS NUMERICAL APPLICATIONS	<ul style="list-style-type: none"> Solve word problems based on given topic To convert binary into decimals To recall laws & properties of logarithms & antilogarithms. To solve numerical applications based on calendar, time, work & distance, mensuration etc. 	
II	1 MAY 2023	26 MAY 2023	19 Days	UNIT-2 ALGEBRA SET THEORY RELATIONS UNIT-4 CALCULUS FUNCTIONS	Pupil will be able to Define sets. <ul style="list-style-type: none"> Differentiate between types of sets. Solve word problems related to it. Define relation Categorise different type of relations. differentiate between relation & function. 	Graphs of various functions
III	3 JUL 2023	21 JUL 2023	15 Days	UNIT-2 ALGEBRA PERMUTATIONS & COMBINATIONS SEQUENCE & SERIES	<ul style="list-style-type: none"> Definition of factorial: $n! = n(n-1)(n-2)\dots 3$. To recall Fundamental Principle of Addition. To recall Fundamental Principle of Multiplication. define arithmetic & geometric progression. to find nth term & sum to n terms of given progression. solve real life problems related to the chapter 	SUM OF ODD NUMBERS
IV	24 JUL 2023	11 AUG 2023	15 Days	UNIT-3 MATHEMATICAL & LOGICAL REASONING Odd man out • Syllogism • Blood relations • Coding Decoding	<ul style="list-style-type: none"> To recall different sets of statements along with special words/phrases. To validate statements. 	
V	14 AUG 2023	1 SEP 2023	13 Days	Revision For Half Yearly Examination		
VI	4 SEP 2023	12 SEP 2023	6 Days			



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VII	29 SEP 2023	13 OCT 2023	11 Days	UNIT-8 COORDINATE GEOMETRY CH-24 STRAIGHT LINES CH-25 CIRCLES CH-26 PARABOLA	<ul style="list-style-type: none">• To understand relationship between various conic sections.• To write general equations for various conic sections.• To solve word problems based on above topic.	CONSTRUCTION OF CONIC SECTIONS
VIII	16 OCT 2023	10 NOV 2023	18 Days	UNIT- 7 BASICS OF FINANCIAL MATHEMATICS SIMPLE INTEREST COMPOUND INTEREST ANNUITY Effective rate of interest Present value, net present value and future value Real Life Applications	<ul style="list-style-type: none">• To recall basic concepts of simple interest and compound interest.• To solve problems related to it.	
IX	16 NOV 2023	8 DEC 2023	15 Days	UNIT – 7 CONTD.	<ul style="list-style-type: none">• To find mean deviation from median & mean• To find mean, standard deviation & variance for given observations.	Project on BILLS
				TAXATION & BILLS UNIT-6 DESCRIPTIVE STATISTICS- DATA ANALYSIS		



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

X	11 DEC 2023	29 DEC 2023	14 Days	UNIT – 6 (CONTINUED) DATA INTERPRETATION CORRELATION ANALYSIS APPLICATIONS Skewness and Kurtosis Percentile rank & Quartile rank	To Emphasize on application, analysis and interpreting the results of coefficient of correlation using practical examples. Emphasize on visualizing, analysing and interpreting percentile and quartile rank scores.	Data Interpretation Activity
XI	8 JAN 2024	25 JAN 2024	13 Days	UNIT-4 CALCULUS LIMITS & CONTINUITY DIFFERENTIATION	<ul style="list-style-type: none"> • To recall the concept of limits. • To differentiate mathematical functions. • To use product rule & quotient rule in differentiating given functions. 	ACTIVITY ON LIMITS & CONTINUITY.
XII	29 JAN 2024	16 FEB 2024	15 Days	UNIT-5 PROBABILITY CONDITIONAL PROBABILITY & BAYES' THEOREM	<ul style="list-style-type: none"> • To define sample space for given events. • To find probability for different set of events. • To solve problems based on BAYES' Theorem 	Conditional Probability
XIII	19 FEB 2024	23 FEB 2024	5 Days	REVISION FOR ANNUAL EXAMINATION		
ANNUAL EXAMINATION 26 FEB 2024 - 13 MAR 2024						



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XII		Section: B		Subject: ACCOUNTANCY (055)		Name of the Teacher: MAYANK ARORA	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
Module	From	To					
I	15/03/2023	31/03/2023	12	Chapter-1 (Fundamentals of Partnership) <ul style="list-style-type: none"> • Definition and features of Partnership • Rights of Partners • Partnership Deed and its contents • Provisions of Partnership Act, 1932 if partnership deed is silent • Preparation of Profit and Loss Appropriation A/c • Calculation of Interest on Drawings • Calculation of Interest on Capital • Calculation of Salary or Commission to Partners 	<ul style="list-style-type: none"> • Students would be able to understand the basics of Partnership and Provisions of Partnership Act, 1932 if partnership deed is silent. • They will understand the need of preparing Profit and Loss Appropriation A/c and its format. • They will understand how to calculate interest on drawings and interest on capital. • Calculation of Salary or Commission to Partners will also be understood by them. 	NA	
II	03/04/2023	28/04/2023	17	Chapter-1 (Fundamentals of Partnership) <ul style="list-style-type: none"> • Preparation of Partner's Capital A/c • Past Adjustments • Guarantee of Profits to a Partner Chapter-2 (Valuation of Goodwill) <ul style="list-style-type: none"> • Definition of Goodwill. • Need for valuation of Goodwill. • Factors affecting Goodwill. • Types of Goodwill. • Methods of calculating Goodwill. 	<ul style="list-style-type: none"> • Students shall be able to understand how to prepare Partner's Capital A/c. • They will be able to adjust the wrong distribution of Profits among the partners. • They will know the treatment of guarantee give to a partner. • They will understand the basics of Goodwill. 	NA	



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

III	01/05/2023	26/05/2023	19	<p>Chapter-2 (Valuation of Goodwill)</p> <ul style="list-style-type: none"> ● Calculation of Goodwill by Average Profit Method. ● Calculation of Goodwill by Super Profit Method. ● Calculation of Goodwill by Capitalisation Method. <p>Chapter-3 (Change in profit-sharing ratio)</p> <ul style="list-style-type: none"> ● Calculation of Gaining and Sacrificing Ratio ● Treatment of Goodwill ● Treatment of Reserves and Accumulated Profits ● Reassessment of Assets and Liabilities ● Preparation of Partner's Capital A/c ● Full Fledge Questions <p>Chapter-4 (Admission of a Partner)</p> <ul style="list-style-type: none"> ● Calculation of Gaining and Sacrificing Ratio ● Calculation of New Ratio 	<ul style="list-style-type: none"> ● They will be able to calculate the goodwill with the different methods. ● Students would understand how to calculate gaining and sacrificing ratio. ● They will be able to know the treatment of goodwill at the time of Change in PSR. ● They will learn the treatment of Reserves and Accumulated Profits at the time of Change in PSR. ● They will know how to reassess the assets and liabilities at the time of Change in PSR. ● They would be able to solve full-fledged questions. ● They would be able to calculate new ratio at the time of admission of a Partner. 	NA
SUMMER VACATION: 29th MAY 2023 to 30th June 2023						



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IV	03/07/2023	21/07/2023	15	<p>Chapter-4 (Admission of a Partner)</p> <ul style="list-style-type: none"> ● Treatment of Goodwill. ● Calculation of Hidden Goodwill. ● Treatment of Reserves and Accumulated Profits. ● Reassessment of Assets and Liabilities. ● Preparation of Partner's Capital A/c. ● Full Fledge Questions. ● Adjustment of Capital. <p>Chapter-5 (Retirement of a Partner)</p> <ul style="list-style-type: none"> ● Calculation of Gaining and Sacrificing Ratio ● Calculation of New Ratio ● Treatment of Goodwill ● Calculation of Hidden Goodwill ● Treatment of Reserves and Accumulated Profits <p>Reassessment of Assets and Liabilities</p>	<ul style="list-style-type: none"> ● They will know the accounting treatment of Goodwill and method to calculate hidden goodwill. ● They will learn the treatment of Reserves and Accumulated Profits at the time of Admission of a Partner. ● They will know how to reassess the assets and liabilities at the time of Admission of a Partner. ● They would be able to solve full-fledged questions. ● They will be able to adjust the capitals in accordance with the profit-sharing ratio of the partners. ● They would be able to calculate new ratio at the time of retirement of a Partner. ● They will know the accounting treatment of Goodwill at the time of retirement of a partner and method to calculate hidden goodwill. ● They will learn the treatment of Reserves and Accumulated Profits at the time of Retirement of a Partner. ● They will know how to reassess the assets and liabilities at the time of Retirement of a Partner. 	NA
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DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

V	24/07/2023	11/08/2023	15	<p>Chapter-5 (Retirement of a Partner)</p> <ul style="list-style-type: none">● Preparation of Partner's Capital A/c● Preparation of Retiring Partner's Loan A/c● Full Fledge Questions● Adjustment of Capital <p>Chapter-6 (Death of a Partner)</p> <ul style="list-style-type: none">● Calculation of New Ratio.● Calculation of Deceased Partner's share in profits in the year of death● Treatment of Goodwill● Calculation of amount payable to Deceased Partner's Executors.● Preparation of Deceased Partner's Executor's Loan A/c. <p>Chapter-7 (Dissolution of Partnership Firm)</p> <ul style="list-style-type: none">● Meaning of Dissolution of Partnership Firm.● Reasons for Dissolution of Partnership Firm.● Section 48 & 49 of Partnership Act, 1932.● Journal Entries at the time of dissolution.	<ul style="list-style-type: none">● They would be able to solve full-fledged questions at the time of retirement.● They would be able to adjust the capitals of partners in accordance with Profit- Sharing ratio.● They would be able to calculate new ratio at the time of death of a Partner.● They will know the accounting treatment of Goodwill at the time of death of a Partner.● They will be able to understand how to calculate deceased partner's share in profits in the year of death and the total amount payable to its executors.● They will also be able to prepare deceased partner's executor's loan A/c.● Students would be able to learn the meaning and reasons for dissolution of a partnership firm.● Students would be able to learn the journal entries at the time of dissolution of a partnership firm.	NA
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DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VI	14/08/2023	01/09/2023	13	<p>Chapter-7 (Dissolution of Partnership Firm)</p> <ul style="list-style-type: none"> ● Preparation of Realisation A/c, Partner's Capital A/c & Cash/Bank A/c at the time of dissolution. <p>Chapter-8 (Accounting for Issue of Share Capital)</p> <ul style="list-style-type: none"> ● Introduction to Joint Stock Company. ● Types of shares. ● Accounting entries for issue of shares for cash ● Accounting entries for forfeiture of shares. ● Accounting entries for re-issue of shares. ● Accounting entries for issue of shares for consideration other than cash. 	<ul style="list-style-type: none"> ● They will understand how to prepare Realisation A/c; Partner's Capital A/c and Bank A/c. ● Students would be able to know the basics about Joint Stock Company. ● They will be able to pass journal entries regarding the issue of shares. ● They will be able to pass accounting entries regarding forfeiture of shares. ● They will be able to pass accounting entries regarding reissue of shares. ● They will also understand the entries related to issue of shares for consideration other than cash. 	Understanding of Accounting Entries with the help of PPTs.
VII	04/09/2023	12/09/2023	06	<p>Chapter-8 (Accounting for Issue of Share Capital)</p> <ul style="list-style-type: none"> ● Format of Company's Balance Sheet. ● Disclosure of share capital in the balance sheet. ● ESOP. <p>Revision for Half-Yearly Examination.</p>	<ul style="list-style-type: none"> ● Students would be able to disclose share capital in Balance Sheet as per Schedule III alongwith Notes to Accounts. ● They will also understand the concept of ESOP and terms related to ESOP. ● Students would be able to recall the concepts and clear their doubts, if any. 	-
HALF YEARLY EXAMINATION :13th September 2023 to 27th September 2023						
TERM -II RESUMES EFFECTIVE FROM 29 SEPTEMBER 2023						



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VIII	29/09/2023	13/10/2023	11	<p>Chapter-9 (Accounting for Issue of Debentures)</p> <ul style="list-style-type: none">● Accounting entries for issue of debentures for cash.● Accounting entries for issue of debentures for consideration other than cash.● Accounting entries for issue of debentures as collateral security.● Accounting entries for issue of debentures with terms of redemption.● Accounting entries for interest on debentures.● Writing off loss/discount on issue of debentures. <p>Book II</p> <p>Chapter-5 (Cash Flow Statement)</p> <ul style="list-style-type: none">● Meaning of Cash Flow Statement and its methods.● Financing Activity.● Investing Activity.● Operating Activity.● Cash Flow Statement as per Revised AS-3.	<ul style="list-style-type: none">● Students shall understand the accounting entries for issue of debentures for cash/ consideration other than cash/ if debentures are issued with terms of redemption.● They will also be able to pass journal entries for issue of debentures as collateral security.● They will be able to pass journal entries related to issue of debentures with terms of redemption and for interest on debentures.● They will know how to write off loss/discount on the issue of debentures.● They will understand the meaning of the Cash Flow Statement.● They will be able to calculate cash flow from financing and investing activities.● Students would be able to calculate cash flow from Operating Activities.● They will know the meaning of Cash and Cash Equivalents.● They will be able to prepare Cash Flow Statement as per Revised AS-3.	NA
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DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IX	16/10/2023	10/11/2023	18	<p>Chapter- 3 (Accounting Ratios)</p> <ul style="list-style-type: none"> • Calculation of Liquidity Ratios. • Calculation of Solvency Ratios. • Calculation of Turnover Ratios. • Calculation of Profitability Ratios. <p>Chapter-4 (Comparative and Common-Size Statements)</p> <ul style="list-style-type: none"> • Preparation of Comparative Statement of Profit and Loss. • Preparation Comparative Balance Sheet. • Preparation of Common-Size Statement of Profit and Loss. • Preparation Common-Size Balance Sheet. <p>Chapter-1 (Financial Statements of a Company)</p> <ul style="list-style-type: none"> • Heads and Sub-heads of Balance Sheet • Heads and Sub-heads of Statement of Profit & Loss • Operating Cycle 	<ul style="list-style-type: none"> • Students will learn how to calculate Liquidity Ratios i.e., Current Ratio and Quick Ratio and what is the significance of these ratios. • Students will learn how to calculate Solvency Ratios i.e., Debt-Equity Ratio, Total Assets to Debt Ratio Proprietary Ratio, Debt to Capital Employed Ratio and Interest Coverage Ratio and what is the significance of these ratios. • Students will learn how to calculate Turnover Ratios i.e., Inventory Turnover Ratio, Trade Receivables Turnover Ratio, Trade Payables Turnover Ratio and Working Capital Turnover Ratio and what is the significance of these ratios. • Students will learn how to calculate Profitability Ratios i.e., Gross Profit Ratio, Net Profit Ratio, Operating Profit Ratio, Operating Ratio and Return on Capital Employed and what is the significance of these ratios. • They will be able to prepare Comparative and Common-Size Statement of Profit & Loss and Balance Sheet. • They will also learn about the different heads' and subheads of Balance Sheet and Statement of Profit & Loss as given in Schedule III of Companies Act, 2013. • They will understand the meaning and importance of the Operating Cycle. 	<p>Project Activity based on Cash Flow Statement with its analysis.</p> <p>Project Activity based on Segment Analysis with the help of different Accounting Ratios and their analysis.</p>
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DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

X	16/11/2023	22/11/2023	05	Chapter-2 (Financial Statement Analysis) All the theory topics. Revision for Pre-board Examination	<ul style="list-style-type: none">• Students shall understand the meaning of Financial Statement Analysis, its advantages, objectives, and limitations.• They will understand the different tools to measure the performance and the position of a Company.• Students would be able to recall the concepts and clear their doubts, if any.	
23 NOV, 2023 - 11 DEC, 2023				PRE - BOARD EXAMINATION- I International Commerce Olympiad.		
20 DECEMBER, 2023 - 16 JANUARY 2024				REVISION & PRE - BOARD EXAMINATION- II		



DELHI PUBLIC SCHOOL R. N. EXTENSION-

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XII		Section: A		Subject: BIOLOGY		Name of the Teacher: SONIA SARASWAT	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives		
Module	From	To			Activity Planned/ Integration of Art		
I	15 March 2023	31 March 2023	12	CH 4: Principle of Inheritance and Variation	At the end of the chapters students will be able to understand <ul style="list-style-type: none"> ➤ Mendelian Inheritance and its deviation, Sex determination in organisms and genetic disorders in human beings ➤ Study of Pedigree charts ➤ Study of Mendelian inheritance 		
II	3 April 2023	28 April 2023	17	CH 5 :Molecular Basis of Inheritance	<ul style="list-style-type: none"> ➤ Structure of DNA and RNA, experiments to search for genetic material, process of transcription and translation ➤ Regulation of gene expression, human gene project and DNA fingerprinting 		
III	1 May 2023	26 May 2023	19	CH 9:Biotechnology:Principles and Processes CH 10: Biotechnology and its Applications CH 6 :Evolution	<ul style="list-style-type: none"> ➤ Principles of biotechnology, tools of RDT, processes of RDT. ➤ Biotechnological applications in agriculture and medicine, transgenic animals and ethical issues related to genetic modifications. ➤ Theories of origin of life, evolution of life forms, evidence and mechanism of evolution, origin and evolution of Man. ➤ Isolation of DNA from available plant material ➤ Flash cards models showing examples of homologous and analogous organs. 		
SUMMER VACATION: 29th MAY 2023 to 30th June 2023							
IV	3 July 2023	21 July 2023	15	CH 1:Sexual Reproduction in flowering plants	<ul style="list-style-type: none"> ➤ Structure of flower, formation of male and female gametes, double fertilization and post fertilization events 	<ul style="list-style-type: none"> ➤ Prepare a temporary mount to observe pollen germination ➤ Study pollen germination on stigma through a permanent a slide ➤ Study of flowers adaptedto pollination by diff. agencies ➤ Prepare a temporary mount of onion root tip to study mitosis ➤ Study meiosis through permanent slide 	



DELHI PUBLIC SCHOOL R. N. EXTENSION-

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

V	24 July 2023	11 August 2023	15	CH 2:Human Reproduction CH 3:Reproductive Health	<ul style="list-style-type: none"> ➤ Parts of human male and female reproductive system, formation of male and female gametes, fertilization and post fertilization events. ➤ Problems related to reproductive health, birth control, STDs and various assisted reproductive technologies. 	<ul style="list-style-type: none"> ➤ Study of stages of gamete development through permanent slides
VI	14 August 2023	1 September 2023	13	CH 7:Human Health and diseases CH 8: Microbes in Human Welfare	<ul style="list-style-type: none"> ➤ Common diseases in humans, various types of immune system, drugs and alcohol abuse ➤ Usage of microbes in household, industrial products, sewage treatment and production of biogas. Microbes as biocontrol agents and bio fertilizers. 	<ul style="list-style-type: none"> ➤ Study of common disease causing organisms through permanent slides.
TERM-I SYLLABUS COMPLETION -1 SEPTEMBER 2023						
VII	4 September 2023	12 September 2023	06	REVISION FOR HALF YEARLY EXAMINATION		
HALF YEARLY EXAMINATION :13th September 2023 to 27th September 2023						
TERM -II RESUMES EFFECTIVE FROM 29 SEPTEMBER 2023						



DELHI PUBLIC SCHOOL R. N. EXTENSION-

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VIII	29 September 2023	13 October 2023	13	CH:11 Organisms and populations	<ul style="list-style-type: none">➤ Response of organisms to abiotic factors, population growth models and various population interaction	<ul style="list-style-type: none">➤ Study the plant population density by quadrat method.➤ Study the plant population frequency by quadrat method➤ Model specimen showing symbiotic association in root nodules of leguminous plants, Cuscuta on host, Lichens.
IX	16 October 2023	10 November 2023	18	CH:11 Ecosystem CH 12::Biodiversity and its conservation	<ul style="list-style-type: none">➤ Components of ecosystem, energy flow through food chain and food web, Diff. types of ecological pyramids, xeric and hydric succession and flow of nutrients➤ Patterns of biodiversity, loss and conservation of biodiversity	
SYLLABUS COMPLETION-10 NOVEMBER 2023						
X	16 November 2023	22 November 2023	05	REVISION PERIOD		
PREBOARD I EXAMINATION:23 November 2023 to 11 December 2023						
PREBOARD II EXAMINATION:20 December 2023 to 16 January 2023						



DELHI PUBLIC SCHOOL R. N. EXTENSION-

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XII		Section: B		Subject: Business Studies (054)		Name of the Teacher: Pooja Kohati	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
Module	From	To					
I	15 MARCH, 23	31 MARCH. 23	12	CH-1: Nature and Significance of Management <ul style="list-style-type: none"> Management - concept, objectives, and importance 	<ul style="list-style-type: none"> To discuss the concept and importance of management. To explain the objectives of management. 		
II	3 APRIL, 2023	28 APRIL, 23	17	CH-1: Nature and Significance of Management <ul style="list-style-type: none"> Management as Science, Art & Profession Levels of Management Management functions- planning, organizing, staffing, directing and controlling Coordination- concept and importance CH-2: Principles of Management <ul style="list-style-type: none"> Principles of Management- concept & significance 	<ul style="list-style-type: none"> To examine the nature of management as a science, art and profession. To develop an understanding of the various levels of management. To explain the functions of management. To discuss the concept, characteristics and importance of Coordination. To discuss the concept of principles of management. To explain the significance of management principles. To discuss the general principles of management as given by Henry Fayol. 		



DELHI PUBLIC SCHOOL R. N. EXTENSION-

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

III	1 MAY, 2023	26 MAY, 2023	19	<p>CH-2: Principles of Management</p> <ul style="list-style-type: none"> Taylor’s Scientific management- principles and techniques <p>CH -3: Business Environment</p> <ul style="list-style-type: none"> Business Environment- concept & importance Dimensions of Business Environment- Economic, Social, Technological, Political and Legal Demonetization - concept and features <p>CH 11: Marketing</p> <ul style="list-style-type: none"> Marketing – Concept, functions & philosophies Marketing Mix – Concept and elements Product - branding, labelling & packaging – concept Price - Concept, Factors determining price Physical Distribution – concept, components and channels of distribution Promotion – Concept and elements; Advertising, Personal Selling, Sales Promotion and Public 	<ul style="list-style-type: none"> To enable the students to develop an understanding of the various scientific Principles & techniques of management as given by F.W Taylor. To explain the contribution of Taylor & Fayol in management field. To explain the meaning of business environment and its importance. To describe the various elements of business environment; To examine the economic environment in India and the impact of Government policies on business and industry. To enable the students to analyse the impact of changes in business environment using current examples. To discuss the concept of Demonetisation. To discuss the importance of a good brand name and brand mark for a product. To discuss the importance of branding decision to be taken by a marketer while marketing a product. To explain the functions of marketing. To describe the elements of marketing mix like product, price, place and promotion. To discuss the concept of physical distribution and its components. To describe the various channels of distribution. To describe the elements of promotion mix. 	<p>INDUSTRIAL VISIT</p> <p>PROJECT work on any one of the four topics:</p> <ol style="list-style-type: none"> Principles of management. Business Environment Marketing management. Financial Market.
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DELHI PUBLIC SCHOOL R. N. EXTENSION-

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

				Relations.		
SUMMER VACATION: 29 May 2023 to 30 June 2023						
IV	3 JULY, 2023	21 JULY, 2023	15	<p>CH 4: Planning</p> <ul style="list-style-type: none"> • Concept, importance, limitation & process • Single use and standing plans. Objectives, Strategy, Policy, Procedure, method, Rule, budget and Programme <p>CH 5: Organising</p> <ul style="list-style-type: none"> • Concept and importance of organising • Process of organising Functional and Divisional structure of organisation-concept • Formal and informal organisation- concept 	<ul style="list-style-type: none"> • To discuss the concept, importance & limitations of Planning • To enable the students to analyse the steps in the planning process. • To explain the different types of plans. • To develop critical, analytical, convincing & presentation skills of students. • To enable the students to learn about design, pattern & composition of organisational structures. • To discuss the concept and importance of organising. • To explain the concept of delegation and its elements. • To discuss the concept of Decentralisation & understand the importance of Delegation & Decentralisation of authority. • To analyse the differentiation between delegation & decentralization of authority. 	<p>PLANNERS : An activity focusing on importance of Promotion Budget Planning.</p>



DELHI PUBLIC SCHOOL R. N. EXTENSION-

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

V	24 JULY 23	11 AUG, 23	15	<p>CH 12: Consumer Protection</p> <ul style="list-style-type: none"> ● Concept and importance of consumer protection ● Meaning, rights and responsibilities of consumers ● Who can file a complaint? ● Redressal machinery ● Remedies available ● Consumer awareness - Role of consumer organizations and NGO's. <p>CH 9: Financial Management</p> <ul style="list-style-type: none"> ● Concept, role and objectives ● Financial decisions: investment, financing and dividend- Meaning and factors affecting ● Financial Planning - concept and importance ● Capital Structure – concept and factors affecting capital structure ● Fixed and Working Capital - Concept and factors affecting their requirements 	<ul style="list-style-type: none"> ● To explain the concept & importance of consumer protection. ● To discuss the scope of Consumer Protection Act, 2019. ● To examine the meaning of Consumer & his rights and responsibilities acc. to CPA, 2019 ● To examine the remedies available to the consumer under Act. ● To discuss the legal redressal machinery under Act. ● To describe the role of consumer organizations and NGOs in protecting consumers' interests. ● To discuss the concept of financial management and appreciate the objective of managing the business finance. ● To explain the role of financial management in an organisation. ● To describe the concept of financial planning & its objectives. ● To develop an understanding of EBIT - EPS analysis. ● To discuss the concept of capital structure & its factors. ● To describe the concepts of fixed capital & working capitals and factors affecting them. 	<p>Role play on Scam 1992- An activity to explain the concept of SEBI and its functions</p>
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DELHI PUBLIC SCHOOL R. N. EXTENSION-

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VI	14 AUGUST 23	1 SEP, 23	13	<p>CH 10: Financial Markets</p> <ul style="list-style-type: none"> ● Concept of Financial markets ● Money Market: Concept ● Capital market and its types (primary and secondary) ● Stock Exchange - Functions and trading procedure ● Securities and Exchange Board of India (SEBI) - objectives and functions 	<ul style="list-style-type: none"> ● To enable the students to develop an understanding of various terms related to stock market like Price rigging, etc. ● To explain the concepts and segments of Financial market. ● To appreciate the role of SEBI in investor protection. ● To differentiate between Primary and Secondary market. ● To discuss the methods of floating new issues in the primary market. & various money market instruments. ● To discuss the meaning of Stock exchange & its various functions.
VII	4 SEP 23	12 SEP, 23	06	REVISION FOR HALF YEARLY EXAMINATION	
HALF YEARLY EXAMINATION: 13 September 2023 to 27 September 2023					
VIII	29 SEP, 23	13 OCT, 2022	11	<p>CH 6: Staffing</p> <ul style="list-style-type: none"> ● Concept and importance of staffing ● Staffing as a part of Human Resource Management ● Staffing, Recruitment, Selection process ● Training and Development - Concept and importance, Methods of training - on the job and off the job - vestibule training, apprenticeship training and internship training <p>CH 7: Directing</p> <ul style="list-style-type: none"> ● Motivation- concept, Maslow's hierarchy of needs, Financial and non- financial incentives ● Leadership - concept, styles ● - authoritative, democratic and laissez faire 	<ul style="list-style-type: none"> ● To understand the concept of staffing. ● To discuss the sources of recruitment. ● To describe the steps in the process of selection. ● To appreciate the importance of training to organisation & employees. ● To discuss on the job & off the job methods of training. ● To identify the various methods of training. ● To construct & summarise all the concepts related to the topic. ● To explain the concepts of Motivation, Leadership, and Communication ● To discuss the various financial and non-financial incentives. ● To understand the various styles of Leadership.



DELHI PUBLIC SCHOOL R. N. EXTENSION-

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IX	16 OCT, 2023	10 NOV, 22	18	<p>CH 7: Directing</p> <ul style="list-style-type: none"> ● Concept, importance and Elements ● Communication - concept, formal and informal communication; barriers to effective communication, how to overcome the barriers. <p>CH 8: Controlling</p> <ul style="list-style-type: none"> ● Concept of controlling ● Importance of controlling ● Process of controlling ● Relationship between planning and controlling. 	<ul style="list-style-type: none"> ● To examine the importance of this function in the managerial process. ● To enable the students to grasp the concept & understand the relationships between ideas, concepts. ● To discuss the concepts of formal & informal communication. ● To explain the elements of communication process & barriers to effective communication. ● To explain the concept of controlling & appreciate the importance of Controlling. ● To discuss the steps in the process of controlling. ● To relate controlling with planning concept and understand their inter-relatedness. 	<p>THE MESS AGE GAME</p> <p>: An activity to explain the barriers in communication process.</p>
X	16 NOV, 23	22 NOV, 23	5	REVISION		
23 NOV, 2023 - 11 DEC, 2023				PRE - BOARD EXAMINATION- I International Commerce Olympiad.		
20 DECEMBER, 2023-16 JANUARY 2024				REVISION & PRE - BOARD EXAMINATION- II		



DELHI PUBLIC SCHOOL R. N. EXTENSION-

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XII		Section: A		Subject: COMPUTER SCIENCE		Name of the Teacher: Vidhi Arora Hasija	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
Module	From	To					
I	15 th March 2023	31 st March 2023	12	Unit III: Database Management <ul style="list-style-type: none"> Database concepts Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key) Structured Query Language: Introduction, Data Definition Language and Data Manipulation Language, data types, constraints Create database, use database, show databases, drop database, show tables, create table, describe table, alter table, drop table, insert, delete, select, operators, aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete command, aggregate functions, group by, having clause 	<p>To have an understanding of database concepts and database management system software.</p> <p>To write SQL queries to create database, tables, insert/update/delete data using various constraints and clauses</p>	<p>Preparation of Practical file. Database Management</p> <ul style="list-style-type: none"> Create a student table and insert data. Implement the following SQL commands on the student table: <ul style="list-style-type: none"> ALTER table to add new attributes / modify data type / drop attribute UPDATE table to modify data ORDER BY to display data in ascending / descending order DELETE to remove tuple(s) GROUP BY and find the min, max, sum, count and average 	
II	3 rd April 2023	28 th April 2023	17	Unit III: Database Management <ul style="list-style-type: none"> joins: cartesian product on two tables, equi-join and natural join Interface of python with an SQL database: connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using connect(), cursor(), execute(), commit(), fetchone(), fetchall(), rowcount, creating database connectivity applications, use of %s format specifier or format() to perform queries 	<p>To write SQL join queries. To understand and implement Python-MySQL Connectivity</p>	<p>Practical implementation of Python-MySQL Connectivity Project Work</p>	



DELHI PUBLIC SCHOOL R. N. EXTENSION-

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

III	1 st May 2023	26 th May 2023	19	Unit I:Computational Thinking and Programming-2 <ul style="list-style-type: none">• Functions: types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope)•Data Structure: Stack, operations on stack (push & pop), implementation of stack using list.	To provide a systematic way of problem solving by programming by framing small modules known as functions To illustrate the working of different and to understand the scope of variables To provide a way of storing, organizing and retrieving data in a computer through the concepts of stack programming	Programming based on concept of function Case study based integrated questions Worksheet based on CBSE questions Practical implementation of data structure stack in Python using lists
IV	3 rd July 2023	21 th July 2023	15	Unit I:Computational Thinking and Programming-2 <ul style="list-style-type: none">• Exception Handling: Introduction, handling exceptions using try-except-finally blocks• Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths <p>Text file: opening a text file, text file open modes ,closing a text file, opening a file using with clause, writing/appending data to a text file, reading from a text file, seek and tell methods</p>	<ul style="list-style-type: none">• To understand the need of Data File handling in programming• To learn text and binary file programming which helps in maintaining data inside files by reading and writing methods using different file modes <p>Practical implementation of text file handling worksheet Case study based integrated questions</p>	Case study based integrated questions Practical Work <ul style="list-style-type: none">• Read a text file line by line and display each word separated by a #.• Read a text file and display the number of vowels/consonants/uppercase/l owercase characters in the file.• Remove all the lines that contain the character 'a' in a file and write it to another file.• Create a binary file with name and roll number. Search for a given roll number and display the name, if not found display appropriate message.



DELHI PUBLIC SCHOOL R. N. EXTENSION-

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

V	24 th July 2023	11 th August 2023	15	Binary file: basic operations on a binary file: open using file open modes, close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file	Practical implementation of binary file handling worksheet	Case study based integrated questions Practical Work: ● Create a binary file with roll number, name and marks. Input a roll number and update the marks.
VI	14 th August 2023	1 st September 2023	13	REVISION, PROJECT AND PRACTICAL WORK		
VII	4 th September 2023	12 th September 2023	06	REVISION FOR TERM 1 EXAMINATIONS		
VIII	29 th September 2023	13 th October 2023	11	<p>Unit I: Computational Thinking and Programming-2</p> <p>CSV file: concepts, import csv module, open/close csv file, write into a csv file using csv.writerow() and read from a csv file using csv.readers()</p> <p>Unit II: Computer Networks</p> <ul style="list-style-type: none"> ● Evolution of networking: introduction to computer networks, evolution of networking (ARPANET, NSFNET, INTERNET) ● Data communication terminologies: concept of communication, components of data communication (sender, receiver, message, communication media, protocols), measuring capacity of communication media (bandwidth, data transfer rate), IP address, switching techniques (Circuit switching, Packet switching) ● Transmission media: Wired communication media (Twisted pair cable, Coaxial cable, Fiber-optic cable), Wireless media (Radio waves, Microwaves, Infrared waves) 	<p>To learn csv file programming which helps in maintaining data inside files by using different methods</p> <p>To understand the terminology related to computer networks and to differentiate between the types of networking and various media for data transmission.</p>	<p>Case study based on integrated questions and Practical work through real life examples.</p> <ul style="list-style-type: none"> ● Create a CSV file by entering user-id and password, read and search the password for given userid. <p>Presentation based on Computer Networks.</p>



DELHI PUBLIC SCHOOL R. N. EXTENSION-

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IX	16 th October 2023	10 th November 2023	18	<p>Unit II: Computer Networks</p> <ul style="list-style-type: none">• Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card)• Network topologies and Network types: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree)• Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP• Introduction to web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting	<p>To understand the various types of network and different topologies used in Network and various communication mediums used in network and various possible cabling layouts for different types of network setup. To understand the concepts of protocols and their application.</p>	<p>Case Study Questions</p> <p>Board question practise based on this topic</p> <p>Project Work</p>
X	16 th November 2023	22nd November 2023	5	<p>Unit I: Computational Thinking and Programming-2</p> <p>Revision of Python topics covered in Class XI.</p>	<p>Recapitulation of the basic concepts of Python Programming learnt in Class 11</p>	<p>Practical Work</p> <ul style="list-style-type: none">• Write a random number generator that generates random numbers between 1 and 6 (simulates a dice).



DELHI PUBLIC SCHOOL R. N. EXTENSION-

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XII th		Section: A,B,C		Subject: ARTIFICIAL INTELLIGENCE(843)		Name of the Teacher: Divakar	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
Module	From	To					
1	15 th March 2023	31 st March 2023	12	<p>Unit 1: Capstone Project</p> <ul style="list-style-type: none"> ● Understanding the problem ● Decomposing the problem through DT framework ● Introduction of Time Series Data ● Decompose Time Series Data <p>Practical Lab:</p> <ul style="list-style-type: none"> ● Introduction of Pandas, ● Installation steps of Anaconda Distribution. ● Introduction of Jupyter Notebook, ● How to import CSV files in Pandas. <p>Basic functions of Data Frame like head(), tail(), info(), describe().</p>	<p>Knowledge:</p> <p>Understanding the problem and being able to express the same.</p> <p>How can we Decompose the problem using Design Thinking and model?</p> <p>Introduction of Time Series Data.</p>	<p>Activity 1:</p> <p>Form a team of 4-5 students. And submit a detailed report on the most critical problems and how AI can assist in addressing those problems. Report should include a description of the problem and the proposed way in which AI can solve the problem.</p> <p>1. Agriculture in India 2. School Education in India 3. Healthcare in India</p> <p>Activity2 :</p> <p>Imagine that you want to create your first app. This is a complex problem. How would you decompose the task of creating an app</p>	



DELHI PUBLIC SCHOOL R. N. EXTENSION-

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

2	3 rd 2023	April	28 th 2023	April	17	<p>Unit 1: Capstone Project continued</p> <p>Decompose Time Series Data</p> <ul style="list-style-type: none">● Level● Tren● Seasonality● Noise <p>Analytic Approach: With 10 Stages (Using Diagram)</p> <p>(Pick Analytic Approach Based of Questions: Descriptive, Diagnostic, Predictive and Prescriptive Approach)</p> <ul style="list-style-type: none">● Data Requirements● Data Collection● Modeling Approach <p>Lab Activities:</p> <ul style="list-style-type: none">● Grouping, Merging of DataFrame using Pandas● Fetching of Data From Pandas● Search Missing Values.	<p>Knowledge:</p> <p>Students will be able to apply their learning in solving real world problems</p> <p>Students will be able in expressing their solution in non-technical words</p>	<p>Activity 1 :</p> <p>Decompose Time Series data into trends.</p> <p>Activity 2:</p> <p>Download Airline passenger's data set and plot graph and record your observations.</p> <p>Activity 3:</p> <p>Use the train-test split to evaluate a random forest algorithm on the housing dataset</p>
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DELHI PUBLIC SCHOOL R. N. EXTENSION-

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

3	1 st May 2023	26 th May 2023	19	<p>Metrics of model quality by simple Math and examples from small datasets – scaled up to capstone project (Apply)</p> <ul style="list-style-type: none"> ● RMSE- Root Mean Squared Error ● MSE – Mean Squared Error ● MAPE – Mean Absolute Percent Error ● Cross-Validation <p>Introduction to commonly used algorithms and the science behind them showcases through a compelling story.</p> <p>Introduction about linear regression model and its purpose. How we can use the linear regression model with pandas.</p> <p>Lab Activity:</p> <ul style="list-style-type: none"> ● Introduction of Matplotlib and installation in Jupyter Notebook. ● How can we plot the graph? ● How to set attributes of plot? ● Marker attributes ● Linestyle attributes. ● Different Types of Plot: <ul style="list-style-type: none"> ○ Line Plot ○ Bar Plot ○ Pie Plot ● Implementation of Linear Regression in Jupyter Notebook using Pandas. 	<p>Knowledge: Students will be able to choose and apply the right algorithm to solve the problem using RMSE, MSE and other Regression models.</p>	<p>Activity 1: Write a python code to find out RMSE values of our model. Students would be predicting the brain weight of the users, using linear regression to train a model, the data set to be used in the code can be downloaded from: headbrain6</p> <p>Activity 2: Write Python code to predict future house prices. The price is a continuous value, and therefore a regression model needs to be used. MSE can be used as Loss function, Dataset can be downloaded from housing.csv</p> <p>Activity 3: For Summer Vacation: (Capstone Project) Capstone project idea and its implementation in Teams. Project Distribution for respective teams. Creation logbook as per the project idea.</p>
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DELHI PUBLIC SCHOOL R. N. EXTENSION-

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

4	3 rd July 2023	21 st July 2023	15	<p>PART A: Entrepreneurial Skills-IV</p> <p>Unit 2 : Model Life Cycle</p> <p>Different aspects of AI Model Life Skill.</p> <ul style="list-style-type: none"> ● Project scoping ● Design or build phase ● Deployment in production <p>Lab Activity:</p> <ul style="list-style-type: none"> ● Use of Sklearn in jupyter notebook ● How to implement different types of regression using Sklearn. 	<p>Knowledge: Students will understand about Entrepreneurial skills and the different types of barriers an entrepreneur faces. Students will understand different entrepreneurial competencies.</p> <p>Knowledge Students will learn the skill of breaking down a problem in smaller subunits according to AI project life cycle methodologies</p>	<p>Activity 1: Convert the code for your on-going project over from train-test split to cross-validation. Make sure to remove all code that divides your dataset into training and testing datasets. Leaving code you don't need any more would be sloppy.</p> <p>Activity 2: Add or remove a predictor from your models. See the cross-validation score using both sets of predictors, and see how you can compare the scores.</p>
5	24 th July 2023	11 th August 2023	15	<p>Unit 2: continued</p> <ul style="list-style-type: none"> ● Commonly used platforms to build and run models (Introduction) ● Recommended tools <p>Part A : Unit 2: Self-management Skills-IV</p>	<p>Knowledge: Students will gain proficiency in choosing and applying the correct AI or ML model</p>	<p>Activity use the train-test split to evaluate a random forest algorithm on the housing dataset</p>



DELHI PUBLIC SCHOOL R. N. EXTENSION-

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

6	14 th August 2023	1 st September 2023	13	Unit 2 continued. Links to different platforms Watson <ul style="list-style-type: none">○ Lifecycle of an AI model○ Build○ Deploy○ Retrain Part A: Unit 3: Information and Communication Technology Skills-IV	Knowledge : Students will develop their capstone project using AI project cycle methodologies	Activity Student will explore various AI platforms available
7	4 th September 2023	12 th September 2023	6	Part A: ICT Continue <ul style="list-style-type: none">● Open Office● Excel<ul style="list-style-type: none">○ Autofilter○ Functions○ Cell Properties	Knowledge: Students will understand the concept of hardware and software applications and devices.	Activity: Students will explore various applications related to ICT based on excel and others.
8	29 th Sep. 2023	13 th October 2023	11	Part A: Unit 4 : Entrepreneurial Skills-IV Unit 3 Storytelling through data <ul style="list-style-type: none">● Information processing and recalling stories● Why is storytelling important?● Structure that story!	Knowledge: Students gain insight into data storytelling and how it can bring a story to life.	Activity: Students will do case studies based on different Data sets.



DELHI PUBLIC SCHOOL R. N. EXTENSION-

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

9	16 th October 2023	10 th November 2023	18	<p>Part A Unit 5: Green Skills-IV Unit 3: Story Telling Continues...</p> <ul style="list-style-type: none"> ● How to create stories? ● Begin with a pen-paper approach ● Dig deeper to identify the sole purpose of your story ● Use powerful headings ● Design a Road-Map ● Understand the Audience. ● Conclude with brevity ● Ethics of storytelling ● Stories During the Steps of Predictive Modelling ● Data Exploration ● Data Visuals ● Narrative, Enlighten, Engage. ● Data Story Challenges ● Best Practices of Storytelling 	<p>Knowledge: Students will be able to identify elements that make a compelling data story.</p>	<p>Activities: Students will try creating a data story with the information provided to them and use their imagination to reason as to why some cases have spiked while others have seen a fall.</p>
10	16 th November 2023	22 th November 2023	5	<p>Review for Completion of Capstone Project: (Based on work given in Summer Vacation)</p> <ul style="list-style-type: none"> ● Students Divided in Teams as per guidelines ● Demo and implementation of AI Project Log Book ● Demo and implementation of AI Project Guide. ● Short video on Project Description by team members. 	<p>Knowledge: Students will learn how to implement AI learning using the Capstone Project.</p>	<p>Activity: Students will create different visualizations around the data provided to them, and will be asked to record their observations in capstone projects.</p>



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XII C			Subject: Political Science		Name of the Teacher: Mr. Abhishek Sharma	
Module/Duration		No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
I	15/03/2023	31/03/2023	12 Days	PART A: CONTEMPORARY WORLD POLITICS Chapter 2: End of Bipolarity Chapter 3: US Hegemony in World Politics <ul style="list-style-type: none"> Disintegration of Soviet Union, Unipolar World, Middle East Crisis Afghanistan, Gulf War, Democratic Politics Democratization – CIS and the 21st Century (Arab Spring). 	<ul style="list-style-type: none"> understand the various arenas of Cold War explain the reasons behind Arms race and arms control. Describe India's role in fostering Afro-Asian unity. critically evaluate Shock Therapy and its aftermath on post-Communist regimes assess the different dimensions of US hegemony. evaluate India's changing equation with US 	PPT Presentation
II	03/04/2023	28/04/2023	17 Days	PART A: CONTEMPORARY WORLD POLITICS Chapter 2: End of Bipolarity Chapter 3: US Hegemony in World Politics Disintegration of Soviet Union, Unipolar World, Middle East Crisis – <ul style="list-style-type: none"> Afghanistan, Gulf War, Democratic Politics Democratization – CIS and the 21st Century (Arab Spring). Introduction of democratic politics and capitalism in post- communist regimes. 	<ul style="list-style-type: none"> assess the causes behind disintegration of USSR. critically evaluate Shock Therapy and its aftermath on post-Communist regimes assess the different dimensions of US hegemony. evaluate India's changing equation with US evaluate the rise of China as an economic power in post-Mao era, 	NA



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

				<ul style="list-style-type: none"> India's relations with Russia and other post-communist countries. <p>PART A: CONTEMPORARY WORLD POLITICS</p> <p>Chapter 4: New Centers of Power</p> <ul style="list-style-type: none"> Organizations: European Union, ASEAN, SAARC, BRICS. Nations: Russia, China, Israel, India. <p>Rise of China as an economic power</p>	<ul style="list-style-type: none"> explain the creation and expansion of The Soviet System and the economic and political change which happened after the Second World War. The disintegration of the USSR and the reasons and repercussions which followed. The Shock Therapy and its consequences. Tensions and conflicts in former soviet republics. European Union, ASEAN. develop a comprehensive understanding of India's changing relations with China. understand democratization and its reversals in Pakistan and Nepal. evaluate Ethnic conflict in Sri Lanka critically evaluate the impact of economic globalization on the region. 	
III	1/05/2023	26/05/2023	19 DAYS	<p>PART B: POLITICS IN INDIA SINCE INDEPENDENCE</p> <p>Chapter1: Challenges of Nation Building</p> <ul style="list-style-type: none"> Nation and Nation Building, Sardar Vallabh Bhai Patel and Integration of States. Legacy of Partition: Challenge of 	<ul style="list-style-type: none"> evaluate the challenges after independence explain the Partition, its causes and consequences develop a comprehensive understand States Reorganization in India. 	<p>The learner</p> <ul style="list-style-type: none"> describes Politics in India since Independence. explains the processes of integration of



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

				<p>Refugee, Resettlement,</p> <ul style="list-style-type: none"> ● Kashmir Issue, Nehru's Approach to Nation-Building. ● Political Conflicts over Language and Linguistic Organization of States. <p>Chapter 2 & Chapter 5 (Parties and the Party Systems in India) Chapter 2: Era of One-Party Dominance Chapter 5: Challenges to the Congress System</p> <ul style="list-style-type: none"> ● Congress System, Bi-party System, Multi-party Coalition System. ● First three general elections, nature of Congress dominance at the national level, uneven dominance at the state level, coalitional nature of Congress. Major opposition parties. ● Political succession after Nehru. Non-Congressism and electoral upset of 1967, Congress split and reconstitution, Congress' victory in 1971 elections 	<ul style="list-style-type: none"> ● understand the meaning of Congress system ● understand the different facets of ideological and social coalition. ● critically evaluate the reasons behind Congress dominance. ● to assess role of opposition and other regional parties. 	<p>Princely states into the Indian Union. • interprets sources on the Partition of India</p> <p>Learners may prepare a write-up on the processes of National building. Learners may be asked to collect articles on the Partition of India. Collect stamps issued in 1950 to mark the first Republic Day. Prepare a script for a small documentary on Partition and Beyond. Imagine you are a press reporter writing a brief write-up on 'The Challenges of Nation Building'. Write a biography on any leader who has inspired you and share it with your peers through email.</p>
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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IV	03/07/2023	21/07/2023	15 DAYS	<p>PART B: POLITICS IN INDIA SINCE INDEPENDENCE</p> <p>Chapter 3: Planning and Development</p> <ul style="list-style-type: none"> ● NITI AAYOG ● Changing nature of India's Economic Development, Planning Commission and Five year Plans, National Development Council, NITI Aayog. <p>Chapter 4: India's Foreign Policy</p> <ul style="list-style-type: none"> ● Principles of Foreign Policy; India's Changing Relations with Other Nations: US, Russia, China, Israel; India's Relations with its Neighbours: ● Pakistan, Bangladesh, Nepal, Sri Lanka and Myanmar; India's Nuclear Programme. ● Nehru's foreign policy. Sino-Indian war of 1962, Indo-Pak war of 1965 and 1971. India's nuclear programme. <p>PART A: CONTEMPORARY WORLD POLITICS</p> <p>Chapter 5: South Asia and the Contemporary World</p> <ul style="list-style-type: none"> ● Conflicts and efforts for Peace and Democratization in South Asia: Pakistan, Nepal, Bangladesh, Sri Lanka, Maldives. ● Impact of economic globalization on the region. ● Conflicts and efforts for peace in South Asia. India's relation with its 	<ul style="list-style-type: none"> ● Understand Centralized Planning and FYP ● explain the key controversies after the 2nd FYP ● develop a comprehensive understanding of Green Revolution and White Revolution. ● critically evaluate Afro-Asian unity and Indo-Pak Relations. assess tenets of India's nuclearization programme. ● evaluate India's role in NAM. ● understand developments of India and Pakistan . ● Analysis of India's Relation with Neighbours ● ASEAN EU SAARC 	NA
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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

V	24/07/2023	11/08/2023	15 DAYS	<p>PART A: CONTEMPORARY WORLD POLITICS</p> <p>Chapter 6: United Nations and its Organizations</p> <ul style="list-style-type: none"> • Principle Organs, Key Agencies: UNESCO, UNICEF, WHO, ILO, Security Council and the Need for its Expansion. • Restructuring and the future of the UN. India's position in the restructured UN. Rise of new international actors: new international economic organizations, NGOs. <p>Chapter 9: Globalization</p> <ul style="list-style-type: none"> • Economic, cultural and political manifestations. Debates on the nature of consequences of globalization. Anti-globalization movements. India as an arena of globalization and struggle against it. • Globalization: Meaning, Manifestations and Debates. 	<ul style="list-style-type: none"> • restructuring of the UN. • appreciate the role played by UN. • evaluate India's candidature to UNSC. • understand the traditional concerns of security and politics of disarmament • Understanding about Impact of Globalization of Entire world. • Analyse the three dimensions of globalization • Multiculturalism world 	<p>Study and use of various media and techniques to the extent of their availability PPT</p> <p>Collage and mosaic work with a variety of coloured papers and coloured printed pictures/photographs from magazines and newspapers (Arunachal Pradesh)</p>
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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VI	14/08/2023	01/9/2023	13 DAYS	<p>PART B: POLITICS IN INDIA SINCE INDEPENDENCE</p> <p>Chapter: 6 Democratic Resurgence</p> <ul style="list-style-type: none"> ● Jai Prakash Narayan and Total Revolution, Ram Manohar Lohia and Socialism, Deendayal Upadhyaya and Integral Humanism, ● National Emergency, Democratic Upsurges-Participation of the Adults, Backwards and Youth. ● Search for ‘committed’ bureaucracy and judiciary. Navnirman movement in Gujarat and the Bihar movement. Emergency: context, constitutional and extra-constitutional dimensions, resistance to emergency. 1977 elections and the formation of Janata Party. Rise of civil liberties organizations. 	<ul style="list-style-type: none"> ● critically evaluate National Emergency. ● assess the findings of Shah Commission ● evaluate Restoration of Congress and fall of the Janata government. ● able to assess the pros and cons of regionalism. ● evaluate the lessons learnt from popular struggles. ● examine the reasons behind the emergence of popular consensus. ● Backward Class mobilization ● critically evaluate Ideological incongruence in politics. 	<p>PANEL DISCUSSION STREET PLAY</p>
VII	04/09/2022	12/09/2022	6 DAYS	<p>PART B: POLITICS IN INDIA SINCE INDEPENDENCE</p> <p>Chapter 9: Recent Developments in Indian Politics</p> <ul style="list-style-type: none"> ● Era of Coalitions: National Front, United Front, ● United Progressive Alliance [UPA] I & II, ● National Democratic Alliance [NDA]-I, II, III & IV, ● Issues of Development and Governance. <p>REVISION</p>	<ul style="list-style-type: none"> ● Explain the Political Scenario during in 1980 ● Understand the Coalition politics during 1990 til 2014 ● Evaluate the Political social Economical Situation of Country ● Comparison of working nature of Different Prime Minister ● Analysis of UPA And NDA Government(1999- 2021) <p>REVISION</p>	<p>PPT PRESENTATION</p>



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VIII	29/09/2023	13/10/2023	11 DAYS	<p>PART A: CONTEMPORARY WORLD POLITICS</p> <p>Chapter 7 : Security in Contemporary</p> <ul style="list-style-type: none"> World Security: Meaning and Types; Terrorism. Chapter 8: Environment and Natural Resources Environmental Movements, Global Warming and Climate Change, Conservation of Natural Resources. 	<ul style="list-style-type: none"> Explain the meaning of Security Types of Security Types of Threats Analyzation of need and importance of security 	
IX	16/10/2023	10/11/2023	18 DAYS	<p>PART B: POLITICS IN INDIA SINCE INDEPENDENCE</p> <p>Chapter 7: Social and New Social Movements in India</p> <ul style="list-style-type: none"> Social vs. New Social Movements, Farmer's movements, Worker's Movements, Women's Movements, Ecological Movements. 	<ul style="list-style-type: none"> Describe the impact of social movements on Country Political and Economical Arrangements Pressure groups and movement Evaluate Party based and Non party Based movement 	<p>CLASS XII THEME (Arunachal Pradesh)</p> <p>ART ACTIVITIES</p> <p>1.VISUAL ARTS</p> <p>4.1.1. TWO-DIMENSIONAL OR PICTORIAL ACTIVITIES</p>
X	16/11/2023	22/12/2023	5 DAYS	<p>PART B: POLITICS IN INDIA SINCE INDEPENDENCE</p> <p>Chapter 8: Regional Aspirations</p> <ul style="list-style-type: none"> Rise of Regional Parties, Punjab Crisis, The Kashmir issue, Movements for Autonomy Revocation of Article 370 <p>REVISION</p>	<ul style="list-style-type: none"> Explain the need and demand for Regional aspiration and autonomy Critically evaluate Violence in different parts of country for Demanding separation Analyse the objective idea and goal for enforcing article 370 and Revocation of Article 370 <p>REVISION</p>	<p>of coloured papers and coloured printed pictures/photographs from magazines and newspapers</p> <p>.PPT/VIDEO PRESENTATION</p> <p>Group Activity : Students can Prepare a PPT or</p>
PRE-BOARD EXAMINATION 1: 23 November 2023 – 11 December 2023						



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XII-A/B/C			Subject: ECONOMICS		Name of the Teacher: ACHINT BAJPAI	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art
I	15 th March 2023	31 st March 2023	12 Days	<p>MACROECONOMICS PART-A</p> <p>Foreign exchange rate & Balance of Payment- Balance of payments account meaning and components; balance of payments deficit meaning.</p> <p>Foreign exchange rate-meaning of fixed and flexible rates and managed floating. Determination of exchange rate in a free market.</p> <p>Circular Flow of Income and National Income and it's aggregates What is Macroeconomics? Basic concepts in macroeconomics: consumption goods, capital goods, final goods, intermediate goods; stocks and flows; gross investment and depreciation. Circular flow of income (two sector model);</p> <p>Government Budget and the Economy- Government budget-meaning, objectives and components. Classification of receipts revenue receipts and capital receipts; classification of</p>	<p>The students will be able to interpret the meaning and concept of national income and it's related aggregates, He/She shall be able to identify the difference between concepts surrounding national income such as stock and flow, intermediate and final goods etc.,</p> <p>To establish the foreign exchange rate via fixed flexible and managed floating rate and identifying the difference between the three.</p> <p>To understand the merits and demerits of various exchange rates and their impacts on international trade.</p> <p>To understand the outlay and positioning of components in a BOP, causes behind adverse BOP.</p>	
II	3 rd April 2023	28 th April 2023	17 Days	<p>National Income and it's aggregates Methods of calculating National Income – Value Added or Product method, Expenditure method, Income method. Real and Nominal GDP. GDP and Welfare</p>	<p>He/She shall develop a reasoning so as to inclusion/exclusion of various transactions in the economy as part of different methods of calculating national income and also the rationale behind calculation of GDP on the basis of base year and current year price indexes.</p>	Numerical/ Diagrammatic Presentation
III	1 st May 2023	26 th May 2023	19 Days	<p>Money & Banking</p> <p>Money - meaning and supply of money - Currency held by the public and net demand deposits held by commercial banks. Money creation by the commercial banking system. Central bank and its functions (example of the Reserve Bank of India): Bank of issue, Govt. Bank, Banker's Bank, Control of Credit through Bank Rate, CRR, SLR, Repo Rate and Reverse Repo Rate, Open Market Operations, Margin requirement</p>	<p>The student shall be able to understand the concept and significance of money to an economy and also the key elements of the quantity of money viz. Money supply.</p> <p>The student shall learn about the infrastructure of banking industry in our country and it's working where in he/she will also understand the concept of credit creation by commercial banks in a multiple banking system and also the techniques of controlling and regulating the volume of credit by the central bank.</p>	Research on RBI Project Work



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

SUMMER VACATION (PROJECT WORK AS ASSIGNED IN THE CLASS FOR CBSE PROJECT VIVA : 20 MARKS)						SUMMER VACATION
IV	3rd July 2023	21st July 2023	15 Days	<p>Aggregate Demand & Income determination and Multiplier Aggregate demand and its components. Propensity to consume and propensity to save (average and marginal). Short-run equilibrium output; investment multiplier and its mechanism. Meaning of full employment and involuntary unemployment.</p> <p>Income determination and Multiplier & Excess Demand and Deficient Demand- Problems of excess demand and deficient demand; measures to correct them- changes in government spending, taxes and money supply.</p>	<p>To interpret the behaviour/nature of market forces of demand and supply at the macro level which also includes to establish a relationship of these elements with corresponding sub elements like consumption, savings, investment at equilibrium levels and in general.</p> <p>In addition to this the students shall be able to establish a situation of equilibrium for the economy as part of macroeconomics wherein a sound understanding of pre equilibrium and post equilibrium situations is also dealt with.</p> <p>Besides this the control of situations of excess and deficient demand shall also be understood by the student.</p>	<p>Numerical Diagrammatic Presentation</p>



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

V	24th July 2023	11 th August 2023	15 Days	<p>PART-B Indian Economic Development Indian Economy on the eve of Independence Development Experience (1947-90)- A brief introduction of the state of Indian economy on the eve of independence. Common goals of Five Year Plans. Main features, problems and policies of agriculture (institutional aspects and new agricultural strategy, etc.), industry (industrial licensing, etc.) and foreign trade.</p> <p>Economic Reforms since 1991- Features and appraisals of liberalisation, globalisation and privatisation (LPG policy); Concepts of demonetization and GST</p>	<p>To understand the state of Indian economy under the British rule. Various policies and strategies adopted by the Britishers in India, the state of agriculture, industrial and tertiary sectors in India before Independence and also various demographic indexes of India under British rule.</p> <p>To learn positive contributions of Britishers in India.</p> <p>To learn the goals of economic planning adopted by India post independence.</p> <p>To understand the various agricultural and industrial reforms such as green revolution, IPR and Import substitution policy.</p> <p>To get a fair idea of the causes behind new economic reforms in India and also to learn on various sub reforms as part of liberalisation, privatisation and globalisation.</p> <p>To understand the workings of WTO and also the introduction of GST and concept of demonetisation and its effects on the economy.</p>	<p>Presentation/ Quiz/ Group Discussion/ Research on current data of Census and NSSO</p> <p>Presentation/ project work on GST/ demonetisation.</p>
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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VI	14 th August 2023	1st September 2023	13 Days	<p>Poverty- absolute and relative; Main programmes for poverty alleviation: A critical assessment;</p> <p>Human capital Formation- How people become resource; Role of human capital in economic development; Growth of Education Sector in India</p>	<p>To differentiate between various types of poor and poverty. Causes and programmes adopted by the government for eradicating poverty.(3D approach)</p> <p>To understand the significance of Human Capital to a nation and study the key elements of human capital i.e.t raining ,health ,migration and others.</p> <p>To know about the conditions of educational infrastructure programmes initiated by the government to improve the educational infrastructure.</p>	<p>Presentation on various programmes initiated as part of PAP's</p>
REVISION FOR HALF YEARLY EXAMINATION						
VII	4 th September 2023	12 th September 2023	6 days	REVISION, PRACTICE AND DOUBT SESSION FOR HALF YEARLY EXAMINATION		
HALF YEARLY EXAMINATION						
VIII	29th September 2023	13 October 2023	11 Days	<p>Rural Development- Key issues - credit and marketing - role of cooperatives; agricultural diversification; alternative farming - organic farming</p>	<p>To develop a sense of understanding towards critical issues related to rural upliftment such as credit and finance, agricultural diversification , agricultural marketing etc. It also includes improvement in terms of policies and programmes initiated by the government towards various aspects of rural development.</p>	<p>Research work on agricultural marketing, agricultural diversification and SHG's.</p>



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IX	16 October 2023	10 November 2023	18 Days	<p>Employment- Formal and informal growth; problems and policies.</p>	<p>To understand the meaning of the term employment and concepts associated with it. To introduce various types of unemployment existing in India as part of rural and urban unemployment along with their causes and remedies to alleviate various types of unemployment. Expenditure–revenue Measures of government deficit - revenue deficit, fiscal deficit, primary deficit their meaning</p>	<p>Presentation on types of unemployment and policies adopted by the government The student will be able to understand the nature and purpose of preparing government budget, essential components of</p>
X	16 November 2023	22 November 2023	5 Days	<p>Infrastructure- Meaning and Types: Case Studies: Energy and Health Infrastructure- Problems and Policies- A critical assessment Environment and Sustainable Development- Meaning, Effects of Economic Development on Resources and Environment, including global warming.</p>	<p>To gain sufficient information on India's sizeable infrastructure covering various aspects such as energy generation, road transportation, water transportation and health infrastructure.</p>	<p>Presentation / Quiz/ Group Discussion Research on 3 R's of Sustainable Development. (Refuse, Reuse, Recycle)</p>
XI	12 th December 2023	26 th December 2023	15 Days	<p>Comparative Development Experiences of India and its Neighbours- A comparison with neighbours India and Pakistan, India and China, Issues: growth, population, sectoral development and other Human Development Indicators.</p>	<p>To learn about various indexes in terms of development existing in various countries neighbouring India (viz. Pakistan and China) and where does India fares well against them. Providing information on various programmes and policies initiated by the three countries on various economic issues.</p>	<p>Research on INDIA, PAKISTAN & CHINA Research on FER and BOP</p>
<p>PRE-BOARD EXAMINATION-I : 23rd NOVEMBER 2023 TO 11th DECEMBER 2023</p> <p>PRE-BOARD EXAMINATION-II : 20th DECEMBER 2023 TO 16th JANUARY 2024</p>						



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XII			Subject: Geography		Name of the Teacher: Kiran Srivastava	
Module/Duration		No. of Days	Chapters and Topics to be taught		Learning Objectives	Activity Planned/ Integration of Art
I	15 March 2023	31st April 2023	12 Days	<p>Book-1, Fundamentals of Human Geography</p> <p>Ch-1, Human Geography Nature and Scope: Definitions, Nature of Human Geography, Naturalisation of Humans and Humanisation of nature, Human Geography through corridors of the time, Fields and subfields of human Geography.</p> <p>Ch-2, The World Population: Distribution, Density and Growth: Patterns of population distribution in the world, Density of population, Factors influencing the distribution of population, Population growth, Components of population change, Migration, Trend in population growth, Spatial pattern of population change, Demographic Transition</p>	<p>Students will be knowing about human geography as a subject, its scope and will analyze the evolution of the subjects through different time corridors. Learners will understand Patterns of population distribution in the world, Density of population. Will analyze the Factors influencing the distribution of population, Population growth, Components of population change.</p>	<p>Map work: Density and distribution of the population in the World</p>
II	3 April 2023	28 April 2023	17 Days	<p>Book-2, India: People and Economy</p> <p>Ch-1, Population: Distribution, Density, growth and Composition: Distribution of the population, Density of the population, Growth of Population, Trends of population growth, Regional Variation in population growth, Population Composition, Linguistic Composition, Composition of Working population.</p> <p>Book-1, Fundamentals of Human Geography</p> <p>Ch-3, Human Development: Growth and Development, Concept of Human development, Four Pillars of Human Development, Approaches to Human Development, International Comparisons.</p>	<p>Learners will understand Patterns of population distribution, Density of population. Will analyze the Factors influencing the distribution of population, Population growth in reference to India.</p> <p>Students will be knowing about the importance of human development, HDI and will analyze the factors affecting human development.</p>	



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

III	1 May 2023	26 May 2023	19 Days	<p>Book-2, India: People and Economy Ch- 2, Human Settlement: Classification of Settlements Rural urban Dichotomy, Types and Patterns of Settlements, Rural Settlement Patterns, Problem of Rural Settlements, Urban settlements, Classification of Urban.</p> <p>Book-1, Fundamentals of Human Geography Ch-4, Primary Activities: Hunting and Gathering, Pastoralism, Nomadic Herding, Commercial Livestock Rearing, Agriculture: Subsistence Agriculture, Primitive Subsistence Agriculture, Intensive Subsistence Agriculture, Plantation Agriculture, Mixed Farming, Dairy Farming, Mediterranean Agriculture, Market Gardening and Horticulture, Cooperative Farming, Collective farming, Mining, Factors affecting mining activities, Methods of Mining.</p> <p>Book-2, India: People and Economy Ch- 3, Land Resources and Agriculture: Land Use Categories, Land-use Change in India, Agriculture Land Use in India, cropping Seasons in India, Types of Farming, Foodgrains, Oilseeds, Fiber Crops, Other Crops, Agricultural Development In India, Growth of Agricultural Output and Technology, Problems of Indian agriculture.</p>	<p>Learners will know about the different types of settlements and analyze the factors affecting the human settlement. Students will be knowing different types of farming practices in different parts of the world from primitive time to modern times.</p> <p>Learners will be familiarize with land Use Categories, Land- use Change in India, Agriculture Land Use in India, cropping Seasons in India, Types of Farming, Foodgrains, Oilseeds, Fiber Crops, Other Crops, Agricultural Development In India, Growth of Agricultural Output and Technology, Problems of Indian agriculture.</p>	<p>Map Work: Prepare a table explaining climatic conditions, main characteristics and regions of the different crops found in the world. leading producing states of the following crops Map Work: L: (a) Rice (b) Wheat (c) Jowar (d) Cotton, (e) Jute (f) Sugarcane (g) Tea and (h) Coffee</p>
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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IV	3 July 2023	21 July 2023	15 Days	<p>Ch-4, Water Resources: Water resource of India, Water Demand and Utilisation, Emerging Water Problems, Water Conservation and management Watershed Management, Rain water harvesting.</p> <p>Book-1, Fundamentals of Human Geography</p> <p>Ch- 5, Secondary Activities: Manufacturing, Characteristics of Modern Large Scale Manufacturing, Classification of Manufacturing Industries, Small scale and Large scale Manufacturing, Concept of High Technology Industries</p> <p>Book -3 Practical Work Ch-1, Data - Its source and compilation</p>	<p>Students will be knowing about Water resource of India, Water Demand and Utilisation, Emerging Water Problems, Water Conservation and management Watershed Management,</p> <p>Students will be knowing about characteristics of Modern Large Scale Manufacturing, Classification of Manufacturing Industries, Small scale and Large scale Manufacturing, Concept of High Technology Industries</p>	
V	24 July 2023	11 August 2023	15 Days	<p>Book-2, India: People and Economy</p> <p>Ch-5, Mineral and Energy Resources: Types of Mineral Resources, Distribution of Minerals in India, Ferrous and Non Ferrous Minerals, Nonmetallic Minerals, Energy Resources, Non Conventional Energy Sources, Conservation of Mineral Resources.</p> <p>Ch-6, Planning and Sustainable Development in Indian Context: Overview of Planning Perspective in India, Target Area planning, Sustainable Development, Measures for Promotion of Sustainable Development.</p> <p>Book -3 Practical Work Ch-2, Data Processing</p> <p>Ch-3, Graphical Representation of the Data</p>	<p>Understand the term minerals, formation of minerals (physical and chemical conditions) and their mode of occurrence. Familiarise with the minerals classified into the heads metallic, non-metallic and energy minerals. Understand the energy resources (conventional and non-conventional sources).</p> <p>Learners will know about Planning related to sustainable development in perspective in India,</p>	<p>Map Work: Iron-ore mines: Mayurbhanj, Bailadila, Ratnagiri, Bellary Manganese mines: Balaghat, Shimoga Copper mines: Hazaribagh, Singhbhum, Khetari Bauxite mines: Katni, Bilaspur and Koraput Coal mines: Jharia, Bokaro, Raniganj, Neyveli Oil Refineries: Mathura, Jamnager, Baroni Industries Iron and Steel Plants: Bhadravati, Bhilai, Bokaro, Durgapur, Rourkela and Jamshedpur</p>



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VI	14 August 2023	1 September 2023	13 Days	<p>Book-2, India: People and Economy Ch-9, Geographical Perspective on Selected Issues and Problems:Environmental Pollution, Water Pollution,Air Pollution, Noise Pollution, Urban Waste Disposal,Rural Urban Migration, Problems of Slums, Land Degradation</p> <p>Book-1,Fundamentals of Human Geography Ch-6, Tertiary and Quaternary Activities:Types of Tertiary ActivitiesPeople Engaged in Tertiary Activities,Quaternary Activities,Quinary Activities, The Digital Divide</p> <p>Ch-7 Transport and Communication:Transport,Modes of Transport,Land Transport, Roadways, Railways Tans-Continental Railways, Water Transport,SeaRoutes, Shipping Canals, Inland WaterwaysAir Transport, Pipelines, Communication, CyberSpace- Internet.</p>	<p>Learners will be understanding the Environmental Pollution, Water Pollution,Air Pollution, Noise Pollution, Urban Waste Disposal,Rural Urban Migration andwill analyze the problems of Slums, Land Degradation, learners will be knowing the types of Tertiary Activities People Engaged in TertiaryActivities,Quaternary Activities,Quinary Activities, The Digital Divide</p> <p>Students will be able: To understand the different modes of transport due to different types of landforms iIndia. To understand road transport,railways, airways through Map.Railways Tans-Continental Railways, Water Transport,SeaRoutes,Sh ipping Canals, Inland WaterwaysAir Transport, Pipelines, Communication, CyberSpace- Internet</p>	
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DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VII	4 September 2023	12 September 2023	6 Days	<p>Book-2, India: People and Economy Ch-7, Transport and Communication: Land Transport, National Highways, Rail Transport, Water Transport, Air Transport, Oil and Gas Pipeline, Communication Network. Pattern of the composition of India's Import, Seaport as Gateways of International Trade, Airport.</p>	<p>Students will understand about the Changing Pattern of the composition of India's Export, Changing Pattern of the composition of India's Import, Seaport as Gateways of International Trade, Airport. History of International Trade.</p>	<p>Map Work: Important nodes on north south corridor, east west corridor & golden quadrilateral Major Sea Ports: Kandla, Mumbai, Marmagao, Kochi, Mangalore, Tuticorin, Chennai, Visakhapatnam, Paradip, Haldia International Airports: Ahmedabad, Mumbai, Bengaluru, Chennai, Kolkata, Guwahati, Delhi, Amritsar, Thiruvananthapuram & Hyderabad</p>
VIII	29 September 2023	13 October 2023	11 Days	<p>Book-1, Fundamentals of Human Geography Ch-8, International Trade: History of International Trade, Basis of International Trade, Important Aspects of International Trade, Types of International Trade, Case for Free Trade, Major Regional Trade, Gateways of International Trade, Types of Port Book-2, India: People and Economy Ch-8: International Trade Changing pattern of the composition of India's Export, import, direction of Trade, Sea port as gateway of international trade. Book -3 Practical Work Ch-4, Spatial Information Technology</p>	<p>Students will understand about the International trade- bases and changing patterns; ports as gateways of international trade; role of WTO in international trade. To familiarize the students about the changes that have taken place in India's international trade in terms of volume, composition and direction.</p>	
IX	16 October 2023	10 November 2023	18 Days	Revision		
X	16 November 2023	22 November 2023	05 Days			
<p>PRE BOARD EXAMINATION-1 (23 November 2023- 11 December 2023) PRE BOARD EXAMINATION-2 (20 December 2023-16 January 2024)</p>						



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XII			Subject: English Core (301)		Name of the Teacher: Lakshmi Srinivasan	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art
I	15 March 2023	31 March 2023	12 Days	Flamingo: My Mother at Sixty Six (Poem) The Last Lesson Writing Skills: Notice: Various types	<ul style="list-style-type: none"> Appreciation and literary criticism, literary devices Notice: Will be able to write various types of notices The importance of education and to make use of the present wisely 	<ul style="list-style-type: none"> A collage of photographs of mother at home and office (if it applies) Some French words used in English Comic strip of a child procrastinating studies and regretting later.
II	3 April 2023	28 April 2023	17 Days	Vista: The Third Level Flamingo: Lost Spring Writing Skills: Letter to the Editor	<ul style="list-style-type: none"> Learn more about economic depression in America Sensitizing the students about the plight of Child laborers 	<ul style="list-style-type: none"> Visit to the school for the rag pickers A stamp or coin collection. A story based on time travel.
III	1 May 2023	26 May 2023	19 Days	Vista: The Tiger King Flamingo: Deep Water Keeping Quiet (Poem)	<ul style="list-style-type: none"> The students would learn to appreciate literary devices such as Satire, pun etc. The students would understand the importance of recognizing fear and confronting it. Power of introspection 	<ul style="list-style-type: none"> Identifying fear : A discussion. Speech : on power of meditation
IV	3 July 2023	21 July 2023	15 Days	Flamingo: The Rattrap A Thing of Beauty (Poem) Writing Skills: Invitation: Formal, Informal	<ul style="list-style-type: none"> That greed leads to entrapment. 	<ul style="list-style-type: none"> Debate: External beauty Vs Internal beauty
V	24 July 2023	11 August 2023	15 Days	Vista: Journey To the End of the Earth Writing Skills: Invitation: Replies Report Writing: Magazine, Newspaper	<ul style="list-style-type: none"> About the alarming effects of Global Warming The children would be able to identify literary devices such as imagery, metaphor 	Diary Entry during Your Journey to the hill station



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VI	14 August 2023	1 September 2023	13 Days	Flamingo: Aunt Jennifer's Tigers (Poem) Vista: On the face of it The Enemy Writing Skills: Article Writing	<ul style="list-style-type: none">● About Escapism● Learn to accept and deal with ones problems in a very mature manner.● What is more important? Patriotism or humanity?	A PowerPoint presentation on whatever that makes one happy
VII	4 September 2023	12 September 2023	6 Days	Revision		
VIII	29 September 2023	13 October 2023	11 Days	Flamingo: Indigo Poets and Pancakes A Roadside Stand (Poem) Writing Skills: Job Application With Resume	<ul style="list-style-type: none">● The students would learn about Indian Freedom Movement● Understand the behind the scene activities of a theatre● The students learn to empathize with the "have-nots"● Will able to write a job application letter and also learn the format for bio- data	Movie on Gandhi will be watched by students and a movie review to be written by them
IX	16 October 2023	10 November 2023	18 Days	Flamingo: The Interview Going Places Vista: Memories of Childhood	<ul style="list-style-type: none">● Understand that privacy is precious to all● The students would be able understand the fantasy some have during their adolescence	Interview someone in your family or neighbourhood on their career and what they have achieved in their life time
X	16 November 2023	22 November 2023	5 Days	Revision for Pre-board 1		



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XII		Section: C		Subject: HISTORY		Name of the Teacher: RITU PRIYA	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
Module	From	To					
I	15/03/2023	31/03/2023	12	Chapter 1 Bricks, Beads and Bones	1. Familiarize the learner with early urban centres as economic and social institutions. 2. Introduce the ways in which new data can lead to a revision of existing notions of history 3. Illustrate steps of making archaeologists/ historians	PROJECT FILE: The mysteries behind the mound of dead –Mohenjo-Daro DISCUSSION.... What are the similarities and differences between Maps 1, 2 and 4? (GIVEN IN BOOK)	
II	03/04/2023	28/04/2023	17	Chapter 2 Kings, Farmers and Towns Chapter 3 Kinship, Caste and Class	1. Familiarize the learner with major trends in the political and economic history of the subcontinent. 2. Introduce inscription I analysis and the ways in which these have shaped the understanding of political and economic processes. 3. Familiarize the learners with issues in social history. 1) Introduce the strategies of textual analysis and their use in daily life. 2) Familiarize the learners with issues in social history. 3) Introduce the strategies of textual analysis and their use in reconstructing social history.	PROJECT: Collect five different kinds of currency notes and coins in circulation today. For each one of these, describe what you see on the obverse and the reverse (the front and the back). Prepare a report on the common features as well as the differences in terms of pictures, scripts and languages, size, shape and any other element that you find significant. Compare these with the coins shown in this chapter, discussing the materials used, the techniques of minting, the visual symbols DEBATE This is what a famous historian of Indian literature, Maurice	



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

						Winternitz, wrote about the Mahabharata: “just because the Mahabharata represents more of an entire literature... and contains so much and so many kinds of things, (it) gives(s) us an insight into the most profound depths of the soul of the Indian folk.” Discuss. and their significance and the possible functions that coins may have had.
III	01/05/2023	26/05/2023	19	Chapter 4 Thinkers, Beliefs and Buildings: A History of Buddhism: Sanchi Stupa Chapter 5: Medieval Society through Travellers' Accounts	<ol style="list-style-type: none">1. Discuss the major religious developments in early India.2. Introduce strategies of visual analysis and their use in reconstructing the theories of religion.<ol style="list-style-type: none">1) Familiarize the learner with the salient features of social histories described by the travelers.2) Discuss how traveler's accounts can be used as sources of social history.3) Familiarize yourself with the accounts of foreign travelers in order to understand the social-political and economic life in the medieval period.	<ul style="list-style-type: none">● Use of flow chart and Tabular columns to compare the major religions in ancient India.● Picture chart to discuss the stories in the sculptures <p>Think Pair and share the features of social history as narrated by travelers</p>



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IV	03/07/2023	21/07/2023	15	Chapter 6: Religious Histories: The Bhakti-Sufi Tradition	<ol style="list-style-type: none">1. Familiarize the learner with the religious developments.2. Discuss ways of analysing devotional literature as sources of history3. Familiarize the learner with the new buildings that were built during the time.	<ul style="list-style-type: none">• Venn diagram to make comparison of different religious movements.• Group discussion on the value impact.
V	24/07/2023	11/08/2023	15	Chapter 7: AN IMPERIAL CAPITAL: VIJAYANAGARA (c.fourteenth to sixteenth centuries)	<ol style="list-style-type: none">1) Familiarize the learner with the new buildings that were built during the time.2) Discuss the ways in which architecture can be analysed to reconstruct history3) Discuss the developments in agrarian relations.4) Discuss how to supplement official documents with other sources.5) Familiarize the learner with the religious developments.	
VI	14/08/2023	01/09/2023	13	New Architecture: Hampi	<ol style="list-style-type: none">1. Familiarize the learner with the new buildings that were built during the time.2. Discuss the ways in which architecture can be analysed to reconstruct history3. Discuss the developments in agrarian relations.4. Discuss how to supplement official documents with other sources.5. Familiarize the learner with the religious developments.	<ol style="list-style-type: none">1. A glossary of terms will be prepared. A Short note on waterworks of this period will be written.



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VII	04/09/2023	12/09/2023	06	<p>Chapter 8: PEASANTS, ZAMINDARS AND THE STATE Agrarian Society and the Mughal Empire (c. sixteenth seventeenth centuries)</p> <p>Chapter 10: Colonialism and Rural Society: Evidence from Official Reports</p>	<p>1) Elaborate the agrarian changes occurred during sixteenth and seventeenth centuries.</p> <p>2) Explain the changes and differences in the agrarian sectors</p> <p>At the completion of this unit students will be able to:</p> <p>1) Compare and contrast the revenue systems introduced by the British in order to understand the economic aspects of colonization in India.</p> <p>2) Analyse the colonial official records & reports in order to understand the divergent interest of British and Indians.</p>	<p>1. Concept maps are prepared on different types of revenue settlement that were operating during the colonial period.</p>
VIII	29/10/2023	13/10/2023	11	<p>Chapter 11: Representations of 1857</p>	<p>3) Correlate the planning and coordination of the rebels of 1857 to infer its domains and nature.</p> <p>4) Examine the momentum of the revolt in order to understand its spread.</p>	<p>1. A flow chart will be prepared to show the causes that led to the revolt.</p> <p>2. Biographies of important personalities who participated in the revolt will be prepared.</p>



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IX	16/10/2023	10/11/2023	18	<p>Chapter 13: Mahatma Gandhi through Contemporary Eyes</p> <p>Chapter 15: FRAMING THE CONSTITUTION The Beginning of a New Era</p>	<p>a) Familiarize the learner with significant elements of the Nationalist movement and the nature of Gandhian leadership.</p> <p>b) Discuss how Gandhi was perceived by different groups. Discuss how historians need to read and interpret newspapers diaries and letters as a historical source</p> <p>c) In what way did Mahatma Gandhi transform the nature of the national movement.</p> <p>d) To explain what do private letters and autobiographies tell us about an individual? How are these sources different from official accounts?</p> <p>1) Discuss how the founding ideals of the new nation state were debated and formulated.</p> <p>2) Understand how such debates and discussions can be read by historians.</p> <p>3) Discuss the other countries' constitution and compare.</p>	<p>1. Prepare a collage on the different movements associated with Gandhiji. "Mahatma Gandhi" – A legendary soul</p> <p>2. Write an imaginary dialogue between Ambedkar and Mahatma Gandhi on the issue of separate electorates for the Depressed Classes.</p> <p>MAP WORK:</p> <p>3. Find out about the route of the Dandi March. On a map of Gujarat plot the line of the march and mark the major towns and villages that it passed along the route</p> <p>Analyze how debates and discussions around important issues in the Constituent Assembly shaped our Constitution</p>
X	16/11/2023	22/11/2023	05	REVISION FOR PRE BOARDS AND ANNUAL EXAMINATION		
<p>PRE BOARD EXAMINATION-1 (23 November 2023- 11 December 2023)</p> <p>PRE BOARD EXAMINATION-2 (20 December 2023-16 January 2024)</p>						



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XII		Section: A and C		Subject: Psychology		Name of the Teacher: Ms. Satrupa Tyagi	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
Module	From	To					
TERM-I Resumes 15 th March 2023							
I	15 March 2023	31 March 2023	12 Day	Chapter 1: Variations in Psychological Attributes Introduction Individual Differences in Human Functioning Assessment of Psychological Attributes	Understand psychological attributes on which people differ from each other.	-	
II	3 April 2023	28 April 2023	17 Days	Intelligence Psychometric Theories of Intelligence, Information Processing Theory: Planning, Attention-arousal and Simultaneous successive Model of Intelligence, Triarchic Theory of Intelligence; Theory of Multiple Intelligences. Individual Differences in Intelligence Culture and Intelligence 8. Emotional Intelligence Special Abilities: Aptitude: Nature and Measurement Creativity Chapter 2 : Self and Personality Introduction Self and Personality Concept of Self Cognitive and Behavioural aspects of Self Periods Culture and Self	Explain what intelligence is and learn how we assess intelligence. Understand how intelligence has different meaning in different cultures. Understand the difference between intelligence and aptitude. Describe the concept of self and learn some ways for self-regulation of behaviour.	Think of 3 persons in your immediate environment, whom you consider intelligent, and write down a few words/phrases describing the attributes of each. Make a list of all the attributes you consider as manifestations of intelligent behaviours. Using these attributes, try to frame a definition.	



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

III	1 May 2023	26 May 2023	19 Days	<p>Chapter 2 Cont.: Concept of Personality Major Approaches to the Study of Personality · Type Approaches · Trait Approaches · Psychodynamic Approach and Post Freudian Approaches · Behavioural Approach Cultural Approach · Humanistic Approach Assessment of Personality · Chapter 4: Psychological disorders Introduction Concepts of Abnormality Historical background Classification of Psychological Disorders Factors Underlying Abnormal Behaviour Major Psychological Disorders Anxiety Disorders Obsessive-Compulsive and Related Disorders · Trauma-and Stressor- Related Disorders · Somatic Symptom and Related Disorders · Dissociative Disorders · Depressive Disorder ● Bipolar and Related Disorders Schizophrenia Spectrum and Other Psychotic Disorders ● Neurodevelopmental Disorders Disruptive, Impulse-Control and Conduct Disorders · Feeding and Eating Disorders · Substance Related and Addictive Disorders</p>	<p>Learn the concept of personality. Differentiate between various approaches to the study of personality. Describe some techniques for personality assessment.</p> <p>Understand the basic issues in abnormal behaviour. Appreciate the factors, which cause abnormal behaviour. Explain the different models of abnormal behaviour. Describe the major psychological disorders.</p>	<p>Select any one successful person and gather information about his/her intelligence, personality traits, interest, aptitude and level of happiness in life. Make a portfolio of your subject based on this information.</p>
<p>SUMMER VACATION: 30th May 2023 to 30th June 2023</p>						



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IV	3 July 2023	21 July 2023	15 Days	Chapter 3: Meeting Life Challenges Introduction Nature, Types and Sources of Stress Effects of Stress on Psychological Functioning and Health Stress and Health General Adaptation Syndrome Stress and Immune System Lifestyle Coping with Stress Stress Management Techniques Promoting Positive Health and Well- being <ul style="list-style-type: none"> ● Life Skills ● Positive Health 	Understand the nature, types and sources of stress as life challenges. Examine the effects of stress on psychological functioning. Learn ways to cope with stress. Know about the life skills that help people to stay healthy Understand the factors that promote positive health and well-being.	Watch a movie based on any psychological disorder and discuss in the class.
V	24 July 2023	11 th August 2023	15 Days	Chapter 5: Therapeutic Approaches Nature and Process of Psychotherapy Therapeutic Relationship Type of Therapies <ul style="list-style-type: none"> ● Behaviour Therapy ● Cognitive Therapy ● Humanistic-Existential Therapy ● Alternative Therapies ● Factors contributing to healing in Psychotherapy ● Ethics in Psychotherapy ● Rehabilitation of the Mentally Ill 	Familiarise yourself with the basic nature and process of psychotherapy. Appreciate that there are different types of therapies for helping people Know how people with mental disorders can be rehabilitated.	Make a therapeutic plan for the subject based on case studies.
VI	14 th August 2023	1 September 2023	13 Days	Practicals		



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

VII	4 September 2023	12 September 2023	06 Days	Revision for HALF YEARLY EXAMS		
HALF YEARLY EXAMS : 13 September 2023 to 27 September 2023						
TERM- II Resume 29 September 2023						
VIII	29 September 2023	13 October 2023	11 Days	Chapter 6: Attitude and Social Cognition Introduction Explanation of social behaviour Nature and Components of Attitudes Attitude Formation and Change (attitude formation, attitude change, attitude –behaviour relationship) Prejudice and Discrimination Strategies for handling prejudice	Understand what are attitudes, how they are formed and changed. Analyse how people interpret and explain the behaviour of others. Comprehend how the presence of others influences our behaviour	Case Study
IX	16 October 2023	10th November 2023	18 Days	Chapter 7: Social Influence and Group Processes Introduction Nature and Formation of Groups Type of Groups Influence of Group on Individual Behaviour Social loafing Group polarisation	Understand the nature and types of groups and know how they are formed. Examine the influence of group on individual behaviour.	Making Final Practical file and Case Study File
SYLLABUS COMPLETION 10 November 2023						
X	16 November 2023	22 November 2023	5 Days	REVISION PERIOD		
PRE-BOARD EXAMINATION-I: 23 November 2023 to 11 December 2023						
PRE-BOARD EXAMINATION-II: 20 December 2023 to 16 January 2024						



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XII		Section: A		Subject: Physics		Name of the Teacher: ANKUSH SHARMA	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
Module	From	To					
I	15 March 23	31 March 23	12	Ch-1: Electric Charges and Fields	Students learn about charge and its effects		
II	3 April 23	28 April 23	17	Ch-2: Electrostatic Potential and Capacitance	Students learn about storage of charge and cause of flow of charge	Lab activity	
III	1 May 23	26 May 23	19	Ch-3: Current Electricity Ch-4: Moving Charges and Magnetism	Students learn to solve various types of electric circuits using DC	Lab activity	
IV	3 July 23	21 July 23	15	Ch-4: Moving Charges and Magnetism Ch-5: Magnetism and Matter Ch-6: Electromagnetic Induction	Students learn about behaviour of various substances in magnetic field and earth's magnetism	Lab activity	
V	24 July 23	11 August 23	15	Ch-6: Electromagnetic Induction Ch-7: Alternating Current Ch-8: Electromagnetic Waves	Students learn about the production of electric current using magnetic field. Students learn about the production and propagation of electromagnetic waves	Lab activity	
VI	14 August 23	1 Sept 23	13	Ch-9: Ray Optics and Optical Instruments	Students learn about the reflection, refraction, interference, diffraction and polarisation, considering light to be travelling in the form of waves	Lab activity	
VII	4 Sept 23	12 Sept 23	6	*REVISION FOR HALF YEARLY EXAMINATION			
VIII	29 Sept 23	13 Oct 22	11	Ch-11: Dual Nature of Radiation and Matter Ch-12: Atoms	Students learn about the explanation of photoelectric effect considering particle nature of radiations and wave nature of particle. Students learn about the structure of atom.	Lab activity	



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IX	16 Oct 23	10 Nov 23	18	Ch-13: Nuclei Ch-14: Semiconductor Electronics	Students learn about the structure and stability of Nucleus, radioactivity, nuclear fission and fusion. Students learn about the formation of crystal, band theory, intrinsic and extrinsic semiconductors, p-n junction, its applications and types.	Lab activity
SYLLABUS COMPLETION- 10 NOVEMBER. 2023						
X	16 Nov 23	22 Nov 23	5	REVISION PERIOD		
PRE-BOARD EXAMINATION 1: 23 NOVEMBER- 11 DECEMBER 2023						
PRE-BOARD EXAMINATION 2: 20 DECEMBER- 16 JANUARY 2024						



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XII A			Subject: MATHEMATICS (041)		Name of the Teacher: DINESH TYAGI	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art
I	15 Mar 2023	31 March 2022	12 Days	Chapter -3 MATRICES Chapter-4 DETERMINANTS	Pupil will be able to understand the concepts of : <ul style="list-style-type: none"> • definition of Matrix • Different type of matrices. • Operations on matrices • Symmetric and skew symmetric Matrix • Determinants value of matrix • Area of Triangle by using determinants 	Relation of Matrices operations with real life
II	3 April 2023	28 Apr 2023	17 Days	Chapter -4 DETERMINANTS (CONTD.) Chapter -5 CONTINUITY & DIFFERENTIABILITY	Pupil will be able to understand : <ul style="list-style-type: none"> • Concept of adjoint and Inverse of matrices • Solution of system of linear equations by Matrix Method • Consistency of system of linear equations • Concept of Chain Rule • Differentiation of implicit & explicit functions using product/quotient/chain rule. • Logarithmic Differentiation • Differentiation of inverse Trigonometric Functions 	find limit of function analytically and also check the continuity of function at that point.
III	1 May 2023	26 May 2023	19 Days	CHAPTER-5 CONTINUITY & DIFFERENTIABILITY (Cont.) CHAPTER -6 APPLICATION OF DERIVATIVES	Pupil will be able to understand : <ul style="list-style-type: none"> • Parametric Differentiation • Second order derivatives of a given function. • concept of Continuity and differentiability • Concept of derivative as a rate of change • Concept of Increasing and decreasing Functions • Concept of Maxima & Minima • First Order Derivative Test • 2nd Order Derivative test • Word problems based on Maxima & Minima 	concepts of increasing and decreasing function geometrically construct an open box of maximum volume from a given rectangular sheet by cutting equal square from each corner



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

V	03 July 2023	21 July 2023	15 days	Chapter 7 : INTEGRALS	Pupil will be able to understand concepts of : <ul style="list-style-type: none"> ● Introduction to Integral Calculus ● Integration as an Inverse Process of Differentiation ● Methods of Integration ● Integrals of Some Particular Functions ● Integration by Partial Fractions ● Integration by Parts 	
V	24 July 2023	11 Aug 2023	15 days	Chapter 7 : INTEGRALS (Cont.) Chapter-8 APPLICATION OF INTEGRALS	Pupil will be able to understand concepts of : <ul style="list-style-type: none"> ● Definite Integral ● Fundamental Theorem of Calculus ● Evaluation of Definite Integrals by Substitution ● Some Properties of Definite Integrals 	
VI	14 Aug 2023	1 Sep 2023	13 days	Chapter -9 DIFFERENTIAL EQUATIONS Chapter -12 LINEAR PROGRAMMING	Pupil will be able to understand concepts of : <ul style="list-style-type: none"> ● Area under simple curves ● Area between two curves. ● Introduction to Differential Equations ● Order & Degree of Diff. Equation ● General and Particular Solutions of a Differential Equation ● Variable Separable Method ● Homogeneous differential equations ● Linear differential Equation ● Introduction to Linear Programming ● Solve Different Types of Linear Programming Problems graphically. 	Activity based on Diet Problem
VII	04 Sep 2023	12 Sep 2023	6 days	Revision for Half Yearly Exam		
VIII	29 Sep 2023	13 Oct 2023	11 days	Chapter -10 VECTOR ALGEBRA Chapter-11 THREE DIMENSIONAL GEOMETRY	Pupil will be able to recall concepts of : <ul style="list-style-type: none"> ● Introduction to Vectors ● Some Basic Concepts ● Types of Vectors ● Addition of Vectors ● Multiplication of a Vector by a Scalar ● Product of Two Vectors ● Direction Cosines and Direction Ratios of a Line ● Equation of a Line in Space ● Angle between Two Lines 	



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

					<ul style="list-style-type: none"> • Short Distance between Two Lines 	
IX	16 Oct 2023	10 Nov 2023	18 days	Chapter-13 PROBABILITY Chapter-1 RELATIONS & FUNCTIONS Chapter-2 INVERSE TRIGONOMETRIC FUNCTIONS	Pupil will be able to recall: <ul style="list-style-type: none"> • Conditional Probability • Multiplication Theorem on Probability • Independent Events • Bayes' Theorem • Random Variables and its Probability Distributions • Mean of Random variable • definition of relations & functions. • Specify domain and range of a given function. • Define Principal values and range for a given inverse trigonometric function. • Sketch graph of inverse trigonometric functions. 	computation of conditional probability of a given event when another event is already happened with the help of pair of dice . demonstration of function which is not one -one but onto. draw the graph of sin inverse x, using graph of sinx activity on Equivalence relation
X	16 Nov 2023	22 Nov 2023	5 days	Revision Period		



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XII			Subject: Geospatial Technology		Name of the Teacher: Kiran Srivastava	
Module/Duration		No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
I	15 March 2023 31st April 2023	12 Days	Ch-1, Remote Sensing Introduction to remote sensing, Stages in remote sensing, Electromagnetic spectrum. Black body, Spectral distribution of energy by a black body. Unit 1: Communication Skills Session 1 Active Listening	Students will be knowing about basics of remote sensing, Different bands in electromagnetic spectrum.	-	
II	3 April 2023 28 April 2023	17 Days	Ch-1, Remote Sensing Contd... Interaction response of sun rays. Spectral reflectance signature, reflectance characteristics Soil vegetation, Water, Rock. Employability Skill 2 Session 2 Parts of Speech 9	Students will be able to know Interaction response to Sun. Spectral reflectance signature, reflectance characteristics Soil vegetation, Water, Rock.	-	
III	1 May 2023 26 May 2023	19 Days	Ch-1, Remote Sensing Contd.. Types of Sensor, Digital Image Processing, visual interpretation of satellite, Advanced remote Sensing technologies. RADAR, Lidar. Employability Skill: Session 3 Writing Sentences Ch-2, Geographic Information System Introduction to GIS	Students will be able to understand the types of Sensor, Digital Image Processing, Advanced remote Sensing technologies. RADAR, Lidar.		
IV	3 July 2023 21 July 2023	15 Days	Ch-2, Geographic Information System Contd.. GIS System: GIS Function, Data structure, Vector Data Session 1 Motivation and Positive Attitude	Students will be able to understand GIS System: GIS Function, Data structure, Vector Data		



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

V	24 July 2023	11 August 2023	15 Days	Ch-2, Geographic Information System Contd.. Map Projection and Coordinate System, Digital Cartography. Ch-3, Global Positioning System: GPS accuracy and accuracy factors Session 2 Result Orientation Session 3 Self-awareness	Students will be able to understand Map Projection and Coordinate System, Digital Cartography and GPS.	
VI	14 August 2023	1 September 2023	13 Days	Ch-3, Global Positioning System Contd.. Types of GPS, list of Global navigation Satellite System, GPS today & its limitation, Uses of GPS Technology. Employability Skill: Information and Communication Technology Skills Session 1 Getting Started with Spreadsheet Session 2 Performing Basic Operations in a Spreadsheet Session 3 Working with Data and Formatting Text Session 4 Advanced Features in Spreadsheet Session 5 Presentation Software 63 Session 6 Opening, Closing, Saving and Printing a Presentation Session 7 Working with Slides and Text in a Presentation Session 8 Advanced Features used in Presentation	Students will be able to understand types of GPS, list of Global navigation Satellite System, GPS today & its limitation, Uses of GPS Technology.	
VII	4 September 2023	12 September 2023	6 Days	Practical Revision		
VIII	29 September 2023	13 October 2023	11 Days	Ch- 4, Trends in Geospatial Technology Remote sensing trends and technology, GIS trends and technology. Unit 4: Entrepreneurship Skills Session 1 Entrepreneurship and Entrepreneur Session 2 Barriers to Entrepreneurship Session 3 Entrepreneurial Attitudes Session 4 Entrepreneurial Competencies	Students will understand trends in RS, GIS and GPS.	



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IX	16 October 2023	10 November 2023	18 Days	Ch-5, Application of Geospatial Technology Watershed Studies, Flood Studies, Health Studies, Utility studies, Security and Defence Studies, Disaster relief and management studies. Unit 5: Green Skills Session 1 Green Jobs Session 2 Importance of Green Jobs	Students will be able to understand the applications of RS, GIS and GPS.	
X	16 November 2023	22 November 2023	05 Days	Revision		
PRE BOARD EXAMINATION-1 (23 November 2023- 11 December 2023) PRE BOARD EXAMINATION-2 (20 December 2023-16 January 2024)						



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XII A			Subject: Chemistry		Name of the Teacher: Swati Lohani	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art
I	15 March 2023	31 March 2021	12	UNIT 1- SOLUTIONS	<p>Students will be able to</p> <ul style="list-style-type: none">Describe the formation of different types of solutions.Express concentration of solution in different units.State and explain Henry's law and Raoult's law.Distinguish between ideal and non-ideal solutions.Explain deviations of real solutions from Raoult's law.Describe colligative properties of solutions and correlate these with molar masses of the solutes.Explain abnormal colligative properties exhibited by some solutes in solutions.	-
II	3 April 2023	28 April 2023	17	UNIT 2- ELECTROCHEMISTRY UNIT 3- CHEMICAL KINETICS	<p>Students will be able to</p> <ul style="list-style-type: none">Apply Nernst equation for calculating the emf of galvanic cell and define standard potential of the cell.Derive relation between standard potential of the cell, Gibbs energy of cell reaction and its equilibrium constant.Understand quantitative aspects of electrolysis.Describe the construction of some primary and secondary batteries and fuel cells.Discuss the dependence of rate of reactions on concentration, temperature and catalyst.Derive integrated rate equations for the zero and first order reactions.	Daniel cell and Lechlanche cell construction and demonstration



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

III	1 May 2023	26 May 2023	19	UNIT 5- COORDINATION COMPOUNDS UNIT 4- D AND F BLOCK ELEMENTS	Students will be able to <ul style="list-style-type: none">Learn the rules of nomenclature of coordination compounds.Understand the nature of bonding in coordination compounds in terms of the Valence Bond and Crystal Field theories.Learn the positions of the d- and f-block elements in the periodic table.Know the electronic configurations of the transition (d-block) and the inner transition (f-block) elements.	Redox Titration of Mohr's salt vs KMnO_4
IV	3 July 2023	21 July 2023	15	UNIT 4- D AND F BLOCK ELEMENTS (CONTD) UNIT 6: HALOALKANES AND HALOARENES	Students will be able to <ul style="list-style-type: none">Describe the preparation, properties, structures and uses of some important compounds such as $\text{K}_2\text{Cr}_2\text{O}_7$ and KMnO_4Understand the general characteristics of the d- and f-block elements and the general horizontal and group trends in them.Describe the properties of the f-block elements and give a comparative account of the lanthanoids and actinoids with respect to their electronic configurations, oxidation states and chemical behaviour.Understand the general characteristics of the d- and f-block elements and the general horizontal and group trends in them.Name haloalkanes and haloarenes according to the IUPAC system of nomenclature from their given structures.Describe the reactions involved in the preparation of haloalkanes and haloarenes and understand various reactions that they undergo.Correlate the structures of haloalkanes and haloarenes with various types of reactions;	Redox Titration of Oxalic acid vs KMnO_4 Chromatography



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

V	24 July 2023	11 August 2023	15	UNIT 6: HALOALKANES AND HALOARENES (CONTD)	Students will be able to <ul style="list-style-type: none">• Use stereochemistry as a tool for understanding the reaction mechanism.• Appreciate the applications of organo-metallic compounds.• Highlight the environmental effects of polyhalogen compounds.	Salt analysis
VI	14 August 2023	1 September 2023	13	UNIT 7: ALCOHOLS,PHENOLS AND ETHERS	Students will be able to <ul style="list-style-type: none">• Discuss the reactions involved in the preparation of alcohols from (i) alkenes (ii) aldehydes, ketones and carboxylic acids.• Discuss the reactions for preparation of ethers from (i) alcohols and (ii) alkyl halides and sodium alkoxides/aryloxides.• Correlate physical properties of alcohols, phenols and ethers with their structures.	Salt analysis
VII	4 September 2023	12 September 2023	6	REVISION FOR HALF YEARLY EXAMINATION		
VIII	29 September 2023	13 October 2023	11	UNIT 7: ALCOHOLS,PHENOLS AND ETHERS (CONTD) UNIT 8: ALDEHYDES KETONES AND CARBOXYLIC ACID	Students will be able to <ul style="list-style-type: none">• Discuss chemical reactions of the three classes of compounds on the basis of their functional groups.• Describe the important methods of preparation and reactions of these classes of compounds.• Correlate physical properties and chemical reactions of aldehydes, ketones and carboxylic acids, with their structures.• Explain the mechanism of a few selected reactions of aldehydes and ketones.• Understand various factors affecting the acidity of carboxylic acids and their reactions.	Functional group analysis



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IX	16 October 2023	10 November 2023	18	UNIT 9: AMINES UNIT 10: BIOMOLECULES	Students will be able to <ul style="list-style-type: none">• Classify amines as primary, secondary and tertiary.• Name amines by common names and IUPAC system.• Describe some of the important methods of preparation of amines.• Describe the method of preparation of diazonium salts and their importance in the synthesis of a series of aromatic compounds including azo dyes.• Explain the characteristics of biomolecules like carbohydrates, proteins and nucleic acids and hormones.• Classify carbohydrates, proteins, nucleic acids and vitamins on the basis of their structures.• Explain the difference between DNA and RNA.• Describe the role of biomolecules in biosystem	salt analysis
X	16 November 2023	22 November 2023	5	REVISION PERIOD		
PRE BOARD EXAMINATION 1: 23 NOVEMBER 2023-11 DECEMBER 2023						
PRE BOARD EXAMINATION 2: 20 DECEMBER 2023-16 JANUARY 2023						



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XII		Section: A/B/C		Subject: PHYSICAL EDUCATION		Name of the Teacher: ARJUN BISHT	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art	
Module	From	To					
I	15 th March 23	31 st March 23	12	<p>Unit 1-Management of Sporting Events</p> <p>Functions of sports events management (Planning, Organising, Staffing, Directing & Controlling)</p> <p>Various Committees & their Responsibilities (pre; during & post)</p> <p>Procedure To Draw Fixtures – Knock-Out (Bye & Seeding) & League (Staircase, Cyclic & Tabular method) and combination tournament.</p> <p>Intramural & Extramural tournaments - meaning, objectives & its significance.</p> <p>Community sports program (sports day, health run, run for fun, run for specific cause & run for unity)</p>	<p>Students will able to understand the benefits of planning and also they get to know the role of different committees in any event.</p> <p>Students will able to draw a fixture for any tournament and that is very important thing to conduct a sports tournament.</p> <p>To make the students understand the need and significance of intramural & extramural.</p> <p>To teach them about the different types of community sports and their importance on our society.</p>	PPT on how different committees work	
II	3 April 23	28 th April 2023	17	<p>Unit II Children & Women in Sports</p> <ul style="list-style-type: none"> Exercise guidelines of WHO for different age groups. <p>Common Postural Deformities - Knock Knee; Flat Foot; Round Shoulders; Lordosis, Kyphosis, Bow Legs and Scoliosis and their corrective measures.</p> <p>Women's participation in sports.</p> <p>Special consideration (Menarche & Menstrual Dysfunction)</p> <ul style="list-style-type: none"> Female Athletes Triad (Osteoporosis, Amenorrhea, Eating Disorders) 	<p>Students will get to know about the common deformities related to legs and spine and this will be corrected.</p> <p>To make students understand menarche and menstrual dysfunction among women athletes.</p> <p>Students will understand the problems faced by women like Amenorrhea, Osteoporosis and eating disorders.</p>		



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

III	1 May 23	26 th May 23	19	<p>Unit III Yoga as Preventive measure for Lifestyle Disease Obesity: Procedure, Benefits & Contradictions of Vajrasana, Hastotansana, Trilokasana, Arda-Matsyendrasana Diabetes: Procedure, Benefits & Contradictions of Bhujangasana, Paschimottasana, Pavan muktasana, Ardha-Matsyendrasana, Kapalbhati Asthma: Procedure, Benefits & Contradictions of Sukhasana, Chakrasana, Gomukhasana, Parvatasana, Bhujangasana, Pashimottasana, Matsyaasana, Anulom-vilom Hypertension: Procedure, Benefits & Contradictions of Tadasana, Vajrasana, Pavan muktasana, Ardha Chakrasana, Bhujangasana, Shavasana. Back pain and Arthritis: Procedure, benefits & contradictions of Tadasan, ardh chakrasana, vakrasana, gomukhasana, bhadrasana.</p>	<p>In this chapter students will get to know the importance and benefits of Yoga and how to perform yoga asanas. Different asanas works as a preventive measure for different lifestyle disease so by using suitable asanas one can prevent particular life style disease.</p>	<p>Prepare Asanas poster with their benefits.</p>
SUMMER VACATION: 29th MAY 2023 to 30th June 2023						
IV	3 July 23	21 July 23	15	<p>Unit IV - Physical Education & Sports for CWSN (Children With Special Needs - Divyang) Organizations promoting Disability Sports (special Olympics, Paralympics & Deaflympics). Concept of classification and divisioning in sports. Concept of Inclusion in sports, its need and implementation. Advantages of physical activities for children with special needs. Strategies to make physical activities assessable for CWSN.</p> <p>Unit V - Sports & Nutrition Concept of balanced diet and nutrition. Macro and micro nutrients: food sources & functions Nutritive & Non Nutritive components of diet. Eating for weight control - A healthy weight, pitfalls, food intolerance of dieting & food myths. Importance of diet in sports - pre, during & post competition.</p>	<p>To make them understand the concept of Disability and Disorder. Students will get to know about the sports program which are running for special child, they also understand the importance of physical activity for them.</p> <p>To make the students understand the importance of balanced diet. To make them aware of eating for weight loss and the results of the pitfalls of dieting. To understand food myths and food intolerance.</p>	<p>Poster making on balanced diet chart.</p>



DELHI PUBLIC SCHOOL R. N. EXTENSION

CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

V	24 th July 23	11 th August 23	15	Unit VI Test & Measurement in Sports Fitness test - SAI Khelo India fitness test in school. Age group - 5-8 years Age group - 9-18 years Measurements of cardio vascular fitness- Harvard step test. Computing basal metabolic rate. Rikli & Jones senior citizen fitness test. Johnsen - Metheny test of motor Educability.	In this chapter they get to know how to conduct a test and what will be the right way to take measurement. By doing this they will be able to test speed, upper body, lower body strength, flexibility etc. And they can do the same for senior citizen by rikli and jones test.	Graphical representation of 5 elderly people on Rikli and Jones test.
VI	14 th August 23	1 Sept. 23	13	Unit VII Physiology & Injuries in Sports Physiological factors determining component of physical fitness. Effect of exercise on muscular system and cardio - respiratory system. Physiological changes due to aging. Sports Injuries - soft tissue injuries, bone and Joint injuries & dislocation.	Students will get to know about the immediate and long term effects of exercise on cardio respiratory system, Muscular system. They also get the detailed knowledge about sports injuries. They will be able to understand what soft tissue injuries are and which bone and joint injuries are they.	
VII	4 th Sept. 23	12 th Sept 23	06	Revision for Half Yearly Examination.		
HALF YEARLY EXAMINATION :13th September 2023 to 27th September 2023						
VIII	29 Sept. 23	13 October 23	11	Unit VIII Biomechanics & Sports Newton's law of motion and its application in the field of sports. Types of levers and their application in sports. Equilibrium - Dynamic & Static and centre of gravity and its application in sports. Friction & sports. Projectile in sports. Unit IX Psychology & Sports Personality; its definition & types (jung classification and big five theory) Motivation, its types and techniques. Exercise Adherence: Reasons, benefits & strategies for enhancing it. Meaning concept and types of aggressions in sports. Psychological attributes in sports - self esteem, mental imagery, self talk & goal setting.	They will understand the concept of science behind the movement. They will be able to understand the role of friction in sports and how can they apply Newton's law in sports. Understanding friction in sports. Understanding the concept of projectile in sports. To make students understand Personality & its classifications. To make students understand motivation and its techniques. Students will be able to understand about exercise Adherence and strategies for enhancing adherence to exercise They will understand the role of aggression in sports and they can use aggression in a positive way.	Make a PPT on different personalities and their characteristics.



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IX	16 th October 23	10 th Novem ber 23	18	Unit X Training in Sports Concept of talent identification and talent development in sports. Introduction to sports training cycle - micro, meso & macro. Types & methods to develop - strength, speed & endurance. Types and methods to develop - flexibility and coordinative ability. Circuit training - Introduction & its importance.	Training in sports gives them the knowledge about speed, strength, endurance, flexibility and how come one can improve these. They can understand the concept of identifying the talent. They also got to know about different training cycle. They will also understand the importance of circuit training	Compare and make schedule for different training programs.
X	16 November 23	22 November 23	5 days	Revision for Pre-board I examination		
PREBOARD I EXAMINATION:23 November 2023 to 11th December 2023						
PREBOARD 2 EXAMINATION:20 December 2023 to 16th January 2024						
WINTER VACATION:30 December 2023 to 6th January 2024						



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

Class: XII			Subject: APPLIED MATH		Name of the Teacher: ASHISH PUNJ	
Module/Duration			No. of Days	Chapters and Topics to be taught	Learning Objectives	Activity Planned/ Integration of Art
I	15 Mar 2023	31 Mar 2023	12 Days	UNIT-2 ALGEBRA MATRICES & DETERMINANTS	Pupil will be able to recall concepts of : <ul style="list-style-type: none"> · inequalities · Operations on matrices · determinants of matrix · Inverse of matrix using Cramer's rule. 	Matrix operations using Excel
II	3 APR 2023	28 APR 2023	17 Days	UNIT-2 ALGEBRA (CONTD.) MATRICES & DETERMINANTS	Pupil will be able to recall concepts of : <ul style="list-style-type: none"> • Singular matrix, Non-singular matrix • $AB = A B$ • Simple problems to find determinant value. · Solution of system of simultaneous equations upto three variables only (non-homogeneous equations) 	
III	1 May 2023	26 May 2023	19 Days	UNIT – 3 CALCULUS	Pupil will be able to recall concepts of : Application of derivatives Increasing/Decreasing functions Maxima and Minima Marginal cost and marginal revenue using derivatives	To Plot the graphs of functions on excel and study the graph to find out point of maxima/minima;
IV	3 July 2023	21 July 2023	15 Days	UNIT – 3 CALCULUS (CONTD.)	Integration Indefinite integral as 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) Differential equation (definition, order, degree) Formulating and solving linear differential equation Application of differential equation (Growth and Decay Model)	Graphical interpretation of given real life situation



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

V	24 Jul 2023	11 Aug 2023	15 Days	UNIT-1 NUMBERS, QUANTIFICATIONS & NUMERICAL APPLICATIONS	Pupil will be able to recall concepts of : · Modulo Arithmetic · Congruence modulo · Simple arithmetic functions · Allegation or Mixture · Numerical problems on boats and streams; partnership; pipes and cistern; races and games, scheduling · Numerical inequalities	
VI	14 Aug 2023	1 Sep 2023	13 Days	UNIT - 8 LINEAR PROGRAMMING UNIT- 4 PROBABILITY	Pupil will be able to recall concepts of : · Introduction and related terminologies (constraints, objective function, optimization) · 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) Probability Distribution · Mathematical Expectation · Variance · Binomial Distribution · Poisson distribution · Normal distribution · Basic applications and inferences	DATA INTERPRETATION
VII	4 Sep 2023	12 Sep 2023	6 Days	REVISION FOR HALF YEARLY EXAMINATIONS		
VIII	29 Sep 2023	13 Oct 2023	11 Days	UNIT-5 INFERENCE STATISTICS	Pupil will be able to recall concepts of : Population and sample Parameter, statistic and statistical inferences t-Test (one sample t-test and two independent groups t-test)	



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CLASSES: XI-XII MODULE WISE SYLLABUS (SESSION: 2023-24)

IX	16 Oct 2023	10 Nov 2023	18 Days	UNIT – 6 INDEX NUMBERS & TIME-BASED DATA UNIT- 7 FINANCIAL MATHEMATICS	Pupil will be able to recall concepts of : · Index numbers, uses of index numbers · Construction of index numbers (simple and weighted) · Tests of adequacy of index numbers (unit test and time reversal test) · Time series, Time series analysis for univariant data sets · Trend analysis by moving average method · Trend analysis by fitting of linear trend line using least squares · Perpetuity, Sinking funds (Present value approach and Relative price approach) · Calculation of EMI · Calculation of returns, nominal rate of return, effective rate of interest · Compound annual growth rate · · Linear method of depreciation	Collect the data on weather, price, inflation, and pollution; analyze the data and make meaningful inferences;
X	16 November 2023	22 November 2023	5 Days	REVISION FOR PREBOARD EXAMINATION		
PREBOARD I EXAMINATION:23 November 2023 to 11th December 2023						
PREBOARD 2 EXAMINATION:20 December 2023 to 16th January 2024						
WINTER VACATION:30 December 2023 to 6th January 2024						