



DAYAWATI MODI PUBLIC SCHOOL, CHANDIL

Syllabus

Session:-2023-2024

Class:- 12

Subject : Biology

Subject Teacher: Shagufta Yasmin Ansari

Name of Book:- NCERT and reference Books

Month	Working Days	Lesson	Art Integrated Project
April	25	Ch.2 sexual reproduction in flowering plants	
May	09	Ch. No.3 . Human Reproduction Ch.no .4. Reproductive health Practical work : parts A (Experiment) Study of pollen germination on a slide.	
June	15	Ch .no.5. Principal of Inheritance and variations Practical work : Collect water from two different water bodies around you and study the PH ,clarity and presence of any living organisms.	
July	29	Ch.No.6. Molecular basis of inheritance Ch. No. 8. Human health and disease Practical work : prepare a temporary mount of onion root tips to study mitosis.	
August	25	Ch.No. 10. Microbes in human welfare. Practical work : Isolation of DNA from available plant material such as spinach, green pea and papaya.	
September	15	Ch.No. 11. Biotechnology- principal and process Practical work ; parts B (Spotting) Study/Observation of the following 1. Flowers adapted to pollination by different agencies.	

October	17	Ch.no. 12. Biotechnology and it's application 2. Pollen germination on stigma through permanent slides.	
November	22	Ch .no.13. Organism and Population 3. Identification of stages of gamer development.i.e. T.S of Tetis, T.S of	

		Ovaries.and T.S of Blastula.	
December	19	Ch. No.15 Biodiversity and it's Conservation 4. Control pollination through emesculation , nagging etc. 5. Two plant and animal found in xeric condition and aquatic condition.	
January	25	Revision and doubt class 6. Common disease causing organism Ascaris, entamoeba and roundworms.	

February	21	Revision and CBSE sample paper practice.	
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DAYAWATI MODI PUBLIC SCHOOL, CHANDIL

Syllabus

Session:-2023-2024

Class 12

SUBJECT- COMPUTER SCIENCE (083)

Months	Days	Topic
April	23	● Revision of Python topics covered in Class XI. ● 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,
May	09	function returning value(s), flow of execution, scope of a variable (global scope, local scope)
June	15	● 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
July	24	Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipulation of data in a text file ● Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file
August	25	CSV file: import csv module, open / close csv file, write into a csv file using writer(),writerow(),writerows() and read from a csv file using reader() ● Data Structure: Stack, operations on stack (push & pop), implementation of stack using list. ● Database concepts: introduction to database concepts and its need ● 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 type (char(n), varchar(n), int, float, date), constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table, alter table (add and remove an attribute, add and remove primary key), drop table,

		insert, delete, select, operators (mathematical, relational and logical), aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete command, aggregate functions (max, min, avg, sum, count), group by, having clause, joins: cartesian product on two tables, equi-join and natural join
Sep	15	<ul style="list-style-type: none"> • 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
Oct	17	<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)
Nov	22	<ul style="list-style-type: none"> • Transmission media: Wired communication media (Twisted pair cable, Co-axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves) • 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
Dec	19	PROJECT WORK
Jan	25	REVISION FOR EXAM
Feb	21	



DAYAWATI MODI PUBLIC SCHOOL, CHANDIL

Syllabus

Session:-2023-2024

Class:- XII

Subject: Accounts

Subject Teacher: Pragya Rajan

Name of Book:- D.K Goyal

Month	Working Days	Lesson	Learning Outcomes
April	23	<ul style="list-style-type: none">• Partnership: features, Partnership Deed.• Provisions of the Indian Partnership Act 1932 in the absence of partnership deed.• Fixed v/s fluctuating capital accounts. Preparation of Profit and Loss Appropriation account- division of profit among partners, guarantee of profits.• Past adjustments (relating to interest on capital, interest on drawing, salary and profit sharing ratio).• Goodwill: nature, factors affecting and methods of valuation - average profit, superprofit and capitalization. Note: Interest on partner's loan is to be treated as a charge against profits. Goodwill to be adjusted through partners capital/current account. Note: Raising and writing off goodwill is excluded.	<p>After going through this Unit, the students will be able to:</p> <ul style="list-style-type: none">• state the meaning of partnership, partnership firm and partnership deed.• describe the characteristic features of partnership and the contents of partnership deed.• discuss the significance of provision of Partnership Act in the absence of partnership deed.• differentiate between fixed and fluctuating capital, outline the process and develop the understanding and skill of preparation of Profit and Loss Appropriation Account.• develop the understanding and skill of preparation of profit and loss appropriation account involving guarantee of profits.
May	9	<p>Accounting for Partnership firms - Reconstitution</p> <ul style="list-style-type: none">• Change in the Profit Sharing Ratio among the existing partners - sacrificing ratio, gaining ratio, accounting for revaluation of assets and reassessment of liabilities and treatment of reserves and accumulated profits. Preparation of revaluation account and balance sheet.• Admission of a partner - effect of admission of a partner on change in the profit sharing ratio, treatment of goodwill, treatment for revaluation of assets and re-assessment of liabilities, treatment of reserves and accumulated profits.	<ul style="list-style-type: none">• develop the understanding and skill of making past adjustments.• state the meaning, nature and factor affecting goodwill• develop the understanding and skill of valuation of goodwill using different methods.• state the meaning of sacrificing ratio, gaining ratio and the change in profit sharing ratio among existing partners.• develop the understanding of accounting treatment of revaluation assets and reassessment of liabilities and treatment of reserves and accumulated profits by preparing revaluation account and balance sheet.• explain the effect of change in profit sharing ratio on admission of a new partner.• develop the understanding and skill of treatment of goodwill, treatment of revaluation of assets and re-assessment of liabilities, treatment of reserves and accumulated profits, and preparation of balance sheet of the new firm

June	15	<p>Accounting for Share Capital</p> <ul style="list-style-type: none"> • Share and share capital: nature and types. • Accounting for share capital: issue and allotment of equity and preference shares. Public subscription of shares-over subscription and under subscription of shares; issue at par and at premium, calls in advance and arrears (excluding interest), issue of shares for consideration other than cash. • Concept of Private Placement and Employee Stock Option Plan (ESOP). • Accounting treatment of forfeiture and re-issue of shares. • Disclosure of share capital in the Balance Sheet of a company. 	<p>After going through this Unit, the students will be able to:</p> <ul style="list-style-type: none"> • state the meaning of share and share capital and differentiate between equity shares and preference shares and different types of share capital. • understand the meaning of private placement of shares and Employee Stock Option Plan. • explain the accounting treatment of share capital transactions regarding issue of shares. • develop the understanding of accounting treatment of forfeiture and re-issue of forfeited shares. • describe the presentation of share capital in the balance sheet of the company as per schedule III part I of the Companies Act 2013.
July	24	<p>Financial statements of a Company: Statement of Profit and Loss and Balance Sheet in prescribed form with major headings and sub headings (as per Schedule III to the Companies Act, 2013)</p> <p>Note: Exceptional items, extraordinary items and profit (loss) from discontinued operations are excluded.</p> <ul style="list-style-type: none"> • Financial Statement Analysis: Objectives, importance and limitations. • Accounting Ratios: Meaning, Objectives, classification and computation. • Liquidity Ratios: Current ratio and Quick ratio. • Solvency Ratios: Debt to Equity Ratio, Total Asset to Debt Ratio, Proprietary Ratio and interest coverage ratio. • Activity Ratios: Inventory Turnover Ratio, Trade Receivables Turnover Ratio, Trade Payables Turnover Ratio and Working Capital Turnover Ratio. • Profitability Ratios: Gross Profit Ratio, Operating Ratio, Operating Profit Ratio, Net Profit Ratio and Return on Investment. 	<p>After going through this Unit, the students will be able to:</p> <ul style="list-style-type: none"> • develop the understanding of major headings and sub-headings (as per Schedule III to the Companies Act, 2013) of balance sheet as per the prescribed norms / formats. • state the meaning, objectives and limitations of financial statement analysis. • discuss the meaning of different tools of 'financial statements analysis'. • state the meaning, objectives and significance of different types of ratios. • develop the understanding of computation of current ratio and quick ratio. • develop the skill of computation of debt equity ratio, total asset to debt ratio, proprietary ratio and interest coverage ratio. • develop the skill of computation of inventory turnover ratio, trade receivables and trade payables ratio and working capital turnover ratio. • develop the skill of computation of gross
			<p>profit ratio, operating ratio, operating profit ratio, net profit ratio and return on investment.</p>

		<p>Unit : Accounting for Not – For Profit Organisations</p> <ul style="list-style-type: none"> • Not-for-profit organizations: concept. • Receipts and Payments Account: features and preparation. • Income and Expenditure Account: features, preparation of income and expenditure account and balance sheet from the given receipts and payments account with additional information. <p>Scope:</p> <p>(i) Adjustments in a question should not exceed 3 or 4 in number and restricted to subscriptions, consumption of consumables and sale of assets/ old material.</p> <p>(ii) Entrance/admission fees and general donations are to be treated as revenue receipts.</p> <p>(iii) Trading Account of incidental activities is not to be prepared.</p>	<p>After going through this Unit, the students will be able to:</p> <ul style="list-style-type: none"> • state the meaning of a Not-for-profit organisation and its distinction from a profit making entity. • state the meaning of receipts and payments account, and understanding its features. • develop the understanding and skill of preparing receipts and payments account. • state the meaning of income and expenditure account and understand its features. • develop the understanding and skill of preparing income and expenditure account and balance sheet of a not-for-profit organisation with the help of given receipts and payments account and additional information.
August	25	<p>Unit : Accounting for Partnership Firms</p> <p>Accounting for Partnership firms - Reconstitution and Dissolution.</p> <ul style="list-style-type: none"> • Retirement and death of a partner: effect of retirement / death of a partner on change in profit sharing ratio, treatment of goodwill, treatment for revaluation of assets and reassessment of liabilities, adjustment of accumulated profits and reserves and preparation of balance sheet. • Calculation of deceased partner's share of profit till the date of death. <p>Unit : Accounting for Partnership Firms</p> <p>Accounting for Partnership firms - Reconstitution and Dissolution.</p> <ul style="list-style-type: none"> • Retirement and death of a partner: effect of retirement / death of a partner on change in profit sharing ratio, treatment of goodwill, treatment for revaluation of assets and reassessment of liabilities, adjustment of accumulated profits and reserves and preparation of balance sheet. • Calculation of deceased partner's share of profit till the date of death. <p>Dissolution of a partnership firm: meaning of dissolution of partnership and partnership firm, types of dissolution of a firm. Settlement of accounts - preparation of realization account, and other related accounts: capital accounts of partners and cash/bank a/c (excluding piecemeal distribution, sale to a</p>	<ul style="list-style-type: none"> • explain the effect of retirement / death of a partner on change in profit sharing ratio. • develop the understanding of accounting treatment of goodwill, revaluation of assets and re-assessment of liabilities and adjustment of accumulated profits and reserves on retirement / death of a partner. • develop the skill of calculation of deceased

		<p>company and insolvency of partner(s)).</p> <p>Note:</p> <p>(i) If realized value of an asset is not given, it is to be presumed that it has not realised any amount.</p> <p>(ii) If a partner has borne and/ or paid the realisation expenses, it should be stated.</p>	
Sept.	15	<p>Dissolution of a partnership firm: meaning of dissolution of partnership and partnership firm, types of dissolution of a firm. Settlement of accounts -preparation of realization account, and other related accounts: capital accounts of partners and cash/bank a/c (excluding piecemeal distribution, sale to a company and insolvency of partner(s)).</p> <p>Note:</p> <p>(i) If realized value of an asset is not given, it is to be presumed that it has not realised any amount.</p> <p>(ii) If a partner has borne and/ or paid the realisation expenses, it should be stated.</p>	<p>partner's share till the time of his death.</p> <ul style="list-style-type: none"> • discuss the preparation of the capital accounts of the remaining partners and the balance sheet of the firm after retirement / death of a partner. • understand the situations under which a partnership firm can be dissolved. • develop the understanding of preparation of realisation account and other related accounts.
		<p>Accounting for Debentures</p> <ul style="list-style-type: none"> • Debentures: Issue of debentures at par, at a premium and at a discount. Issue of debentures for consideration other than cash; Issue of debentures with terms of redemption; debentures as collateral security- concept, interest on debentures. Writing off discount / loss on issue of debentures. <p>Note: Discount or loss on issue of debentures to be written off in the year debentures are allotted from Security Premium Reserve/ Capital Reserve/Statement of Profit and Loss as Financial Cost (AS16) in that order.</p> <p>Note: Related sections of the Companies Act, 2013 will apply. Concept of Tax Deducted at Source (TDS) is excluded.</p> <p>Analysis of Financial Statements</p>	<p>After going through this Unit, the students will be able to:</p> <ul style="list-style-type: none"> • explain the accounting treatment of different categories of transactions related to issue of debentures. • develop the understanding and skill of writing of discount / loss on issue of debentures. • understand the concept of collateral security and its presentation in balance sheet. • develop the skill of calculating interest on debentures and its accounting treatment. • state the meaning of redemption of debentures.



DAYAWATI MODI PUBLIC SCHOOL, CHANDIL

Syllabus

Session:-2023-2024

Class:- XII

Subject : ECONOMICS

Subject Teacher: PRAGYA RAJAN

Name of Book:- Macro Economics and Indian Economy

Month	Working Days	Lesson
April	23	<p>Money and Banking</p> <p>Money - meaning and supply of money - Currency held by the public and net demand deposits held by commercial banks.</p> <p>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</p> <p>Unit 4: Government Budget and the Economy Government budget - meaning, objectives and components. Classification of receipts - revenue receipts and capital receipts; classification of expenditure - revenue expenditure and capital exp Measures of government deficit - revenue deficit, fiscal deficit, primary deficit their meaning.</p>
May	9	<p>Balance of Payments Balance of payments account - meaning and components; Foreign exchange rate - meaning of fixed and flexible rates and managed floating.</p>
		<p>Development Experience (1947-90) and Economic Reforms since 1991 28 Periods A brief introduction of the state of Indian economy on the eve of independence. Indian economic system and common goals of Five Year Plans. Main features, problems and policies of agriculture (institutional aspects and new agricultural strategy), industry (IPR 1956; SSI - role & importance) and foreign trade.</p>
June	15	<p>Economic Reforms since 1991:</p> <p>Features and appraisals of liberalisation, globalisation and privatisation (LPG policy);</p> <p>Concepts of demonetization and GST</p>
July	24	<p>Current challenges facing Indian Economy</p> <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;</p> <p>Rural development: Key issues - credit and marketing - role of cooperatives; agricultural diversification;</p> <p>National Income and Related Aggregates</p>

		<p>What is Macroeconomics?</p> <p>Basic concepts in macroeconomics: consumption goods, capital goods, final goods, intermediate goods; stocks and flows; gross investment and depreciation.</p> <p>Circular flow of income (two sector model); Methods of calculating National Income - Value Added or Product method, Expenditure method, Income method. Aggregates related to National Income:</p> <p>Gross National Product (GNP), Net National Product (NNP), Gross Domestic Product (GDP) and Net Domestic Product (NDP) - at market price, at factor cost; Real and Nominal GDP.</p> <p>GDP and Welfare</p>
Aug	25	<p>Determination of Income and Employment Aggregate demand and its components. Propensity to consume and propensity to save (average and marginal).</p> <p>Short-run equilibrium output; investment multiplier and its mechanism. Meaning of full employment and involuntary unemployment. Problems of excess demand and deficient demand; measures to correct them - changes in government spending, taxes and money supply through Bank Rate, CRR, SLR, Repo Rate and Reverse Repo Rate, Open Market Operations, Margin requirement.</p>
Sept.	15	<p>Current challenges facing Indian Economy Employment:</p> <p>Growth and changes in work force participation rate in formal and informal sectors; problems and policies</p> <p>Infrastructure: Meaning and Types: Case Studies: Health: Problems and Policies- A critical assessment;</p> <p>Sustainable Economic Development: Meaning, Effects of Economic Development on Resources and Environment, including global warming</p> <p>Unit 8: Development Experience of India:</p> <p>A comparison with neighbours</p> <p>India and Pakistan</p> <p>India and China</p> <p>Issues: economic growth, population, sectoral development and other Human Development Indicators</p>

Month	Working Days	Lesson	Learning Outcomes
April	23	Part A : Principles and Functions of Management Unit 1 :Nature And Significance Of Management • Management - concept, objectives, and importance ☐ Explain the meaning of 'Effectiveness and Efficiency. ☐ Discuss the objectives of management. ☐ Describe the importance of management. Management as Science, Art and Profession Levels of Management Management functions-planning, organizing, staffing, directing and controlling Coordination- concept and importance	After going through this unit , the student would be able to : . Understand the concept of management. ☐ Explain the meaning of 'Effectiveness and Efficiency. ☐ Discuss the objectives of management. . Describe the importance of MGT .Examine the nature of management as a science, art and profession. .Understand the role of top, middle and lower levels of management .Explain the functions of Management .Discuss the concept of Co-ordin ation .Explain the importance of Coordination.
May	09	Unit 2: Principles Of Management Principles of Management- concept and significance Fayol's principles of management Taylor's Scientific management principles and techniques	☐ Understand the concept of principles of management. ☐ Explain the significance of management principles. ☐ Discuss the principles of management developed by Fayol. ☐ Explain the principles and techniques of 'Scientific Management'. ☐ Compare the contributions of Fayol and Taylor.
June	15	BUSINESS ENVIRONMENT : Business Environment- concept and Importance Dimensions of Business Environment- Economic, Social, Technological, Political and Legal Demonetization - concept and features Unit 4 :Planning Concept, importance and limitation Planning process Single use and standing plans. Objectives, Strategy, Policy, Procedure, method Rule, budget and Programme	☐ Understand the concept of 'Business Environment'. ☐ Describe the importance of business environment ☐ Describe the various dimensions of 'Business Environment'. ☐ Understand the concept of Demonetization ☐ Understand the concept of planning. ☐ Describe the importance of planning. ☐ Understand the limitations of planning. ☐ Describe the steps in the process of planning. ☐ Develop an understanding of single use and standing plans.

			<ul style="list-style-type: none"> Describe objectives, policies, strategy, procedure, method, rule, budget and programme as types of plans.
July	24	<p>Unit 5 Organising : Concept and importance Organising Process Structure of organisation- functional and divisional concept. Formal and informal organisation- concept Delegation: concept, elements and Importance Decentralization: concept and importance</p> <p>Unit 6 :Staffing Concept and importance of staffing Staffing as a part of Human Resource Management concept Staffing process Recruitment process Selection – process Training and Development Concept and importance, Methods of training - on the job and off the job - vestibule training,</p>	<ul style="list-style-type: none"> Understand the concept of organizing as a structure and as a process. Explain the importance of organising. Organising Process Describe the steps in the process of organizing Describe the functional and divisional structure of Organization Explain the advantages, disadvantages and suitability of functional and divisional structure. Understand the concept of formal and informal organisation. Discuss the advantages, disadvantages of formal and informal organisation. Understand the concept of delegation. Describe the elements of delegation. Appreciate the importance of Delegation. Decentralization: concept and importance Understand the concept of decentralisation. Explain the importance of decentralisation. Differentiate between delegation and decentralisation. Understand the concept of staffing. Explain the importance of staffing Understand the specialized duties and activities performed by Human Resource Management Describe the steps in the process of staffing Understand the meaning of recruitment. Discuss the sources of recruitment. Explain the merits and demerits of internal and external sources of recruitment. Understand the meaning of selection. Describe the steps involved in the process of selection. Understand the concept of training and development Appreciate the importance of training to the organisation and to the employees.

		<p>apprenticeship training and internship training</p>	<p>☑ Discuss the meaning of induction training, vestibule training, apprenticeship training and internship training.</p> <p>☑ Differentiate between training and development.</p> <p>☑ Discuss on the job and off the job methods of training.</p>
August	25	<p>Unit 7 : Directing</p> <p>Concept and importance</p> <p>Elements of Directing</p> <p>Motivation - concept, Maslow's hierarchy of needs, Financial and non-financial incentives</p> <p>Leadership - concept, styles - authoritative, democratic and laissez faire</p> <p>Communication - concept, formal and informal communication; barriers to effective communication, how to overcome the barriers</p> <p>Unit 8: Controlling</p> <p>Controlling - Concept and importance</p> <p>Relationship between planning and Controlling</p> <p>Steps in process of control</p>	<p>☑ Describe the concept of directing.</p> <p>☑ Discuss the importance of directing</p> <p>☑ Describe the various elements of directing</p> <p>☑ Understand the concept of motivation.</p> <p>☑ Develop an understanding of Maslow's Hierarchy of needs.</p> <p>☑ Discuss the various financial and non-financial incentives.</p> <p>☑ Understand the concept of leadership.</p> <p>☑ Understand the various styles of leadership.</p> <p>☑ Understand the concept of communication</p> <p>☑ Understand the elements of the communication process.</p> <p>☑ Discuss the concept of formal and informal communication.</p> <p>☑ Discuss the various barriers to effective communication.</p> <p>☑ Suggest measures to overcome barriers to communication.</p>
September	15	<p>Part B : Business Finance and Marketing</p> <p>Unit 9 : Financial Management</p> <p>Concept, role and objectives of Financial Management</p> <p>Financial decisions: investment, financing and dividend- Meaning and factors affecting</p> <p>Financial Planning - concept and Importance</p> <p>Capital Structure – concept and factors affecting capital structure</p> <p>Fixed and Working Capital - Concept and factors affecting their requirements</p>	<p>After going through this Unit, the students will be able to:</p> <p>☑ Understand the concept of financial management.</p> <p>☑ Explain the role of financial management in an organisation.</p> <p>☑ Discuss the objectives of financial management</p> <p>☑ Discuss the three financial decisions and the factors affecting them.</p> <p>☑ Describe the concept of financial planning and its objectives.</p> <p>☑ Explain the importance of financial planning.</p> <p>☑ Understand the concept of capital structure.</p> <p>☑ Describe the factors determining the choice of an appropriate capital structure of a company.</p> <p>☑ Understand the concept of fixed and working capital.</p> <p>☑ Describe the factors determining the requirements of fixed and working capital.</p>

		Unit 10 Financial Markets : Financial Markets: Concept 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	Understand the concept of financial market. Understand the concept of money market. Discuss the concept of capital market. Explain primary and secondary markets as types of capital market. Differentiate between capital market and money market. Distinguish between primary and secondary markets. Give the meaning of a stock exchange. Explain the functions of a stock exchange. Discuss the trading procedure in a stock exchange. Give the meaning of depository services and demat account as used in the trading procedure of securities. State the objectives of SEBI. Explain the functions of SEBI.
October	17	Unit 11 : Marketing Marketing – Concept, functions and Philosophies Marketing Mix – Concept and elements Product - branding, labelling and 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 Relations	Understand the concept of marketing. Explain the features of marketing. Discuss the functions of marketing. Explain the marketing philosophies Understand the concept of marketing mix. Describe the elements of marketing mix. Understand the concept of product as an element of marketing mix. Understand the concept of branding, labelling and packaging. Understand the concept of price as an element of marketing mix. Describe the factors determining price of a product. Determine price of a product. Understand the concept of physical distribution. Explain the components of physical distribution. Describe the various channels of distribution. Understand the concept of promotion as an element of marketing mix. Describe the elements of promotion mix. Understand the concept of advertising. Understand the concept of sales promotion. Discuss the concept of public relations.

	<p>Unit 12 : Consumer Protection Concept and importance of consumer Protection The Consumer Protection Act, 2019: Source: http://egazette.nic.in/WriteReadData/2019/210422.pdf Meaning of consumer Rights and responsibilities of consumers Who can file a complaint? Redressal machinery Remedies available Consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs)</p>	<ul style="list-style-type: none"> ☑ Understand the concept of consumer protection. ☑ Describe the importance of consumer protection. ☑ Discuss the scope of Consumer Protection Act, 2019 ☑ Understand the concept of a consumer according to the Consumer Protection Act, 2019. ☑ Explain the consumer rights ☑ Understand the responsibilities of consumers ☑ Understand who can file a complaint and against whom? ☑ Discuss the legal redressal machinery under Consumer Protection Act, 2019. ☑ Examine the remedies available to the consumer under Consumer Protection Act, 2019. ☑ Describe the role of consumer organizations and NGOs in protecting consumers' interests.
	<p>Unit 13: Project Work</p>	

Syllabus

Session:-2023-2024

Class:- 12

Subject : Physics

Subject Teacher: Soubhik Goswami

Name of Book:- Companion Physics

Month	Working Days	Lesson
April	23	<p>Chapter-1: Electric Charges and Fields</p> <p>Electric Charges; Conservation of charge, Coulomb's law-force between two-point charges, forces between multiple charges; superposition principle and continuous charge distribution. Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field. Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet.</p>
May	9	<p>Chapter-2: Electrostatic Potential and Capacitance</p> <p>Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two-point charges and of electric dipole in an electrostatic field. Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarisation, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor.</p>
June	15	<p>Chapter-4: Moving Charges and Magnetism</p> <p>Concept of magnetic field, Oersted's experiment. Biot - Savart law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long straight wire. Straight and toroidal solenoids (only qualitative treatment), force on a moving charge in uniform magnetic and electric fields. Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors-definition of ampere, torque experienced by a current loop in uniform magnetic field; moving coil galvanometer-its current sensitivity and conversion to ammeter and voltmeter.</p> <p>Chapter-5: Magnetism and Matter</p> <p>Current loop as a magnetic dipole and its magnetic dipole moment, magnetic dipole moment of a revolving electron, bar magnet as an equivalent solenoid, magnetic field lines; earth's magnetic field</p> <p>Chapter-4: Moving Charges and Magnetism</p> <p>Concept of magnetic field, Oersted's experiment. Biot - Savart law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long straight wire. Straight and toroidal solenoids (only qualitative treatment), force on a moving charge in uniform magnetic and electric fields. Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors-definition of ampere, torque experienced by a current loop in uniform magnetic field; moving coil galvanometer-its current sensitivity and conversion to ammeter and voltmeter.</p> <p>Chapter-5: Magnetism and Matter</p> <p>Current loop as a magnetic dipole and its magnetic dipole moment, magnetic dipole moment of a revolving electron, bar magnet as an equivalent solenoid, magnetic field lines; earth's magnetic field.</p>

July	24	<p>Chapter-6: Electromagnetic induction; Faraday's laws, induced EMF and current; Lenz's Law, Eddy currents. Self and mutual induction.</p> <p>Chapter-7: Alternating Current; Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance; LC oscillations (qualitative treatment only), LCR series circuit, resonance; power in AC circuits. AC</p>
Aug	25	<p>Chapter-9: Ray Optics and Optical Instruments</p> <p>Ray Optics: Refraction of light, total internal reflection and its applications, optical fibers, refraction at spherical surfaces, lenses, thin lens formula, lensmaker's formula, magnification, power of a lens, combination of thin lenses in contact, refraction of light through a prism.</p> <p>Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers</p>
Sep	15	<p>Chapter-10: Wave Optics</p> <p>Wave optics: Wave front and Huygen's principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygen's principle.</p> <p>Interference, Young's double slit experiment and expression for fringe width, coherent sources and sustained interference of light, diffraction due to a single slit, width of central maximum</p> <p>Chapter 11: Dual nature of radiation, Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation-particle nature of light.</p> <p>Experimental study of photoelectric effect</p> <p>Matter waves-wave nature of particles, de-Broglie relation</p> <p>Unit VIII: Atoms and Nuclei</p> <p>Chapter-12: Atoms</p> <p>Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model, energy levels, hydrogen spectrum.</p> <p>Chapter-13: Nuclei Composition and size of nucleus Nuclear force Mass-energy relation, mass defect, nuclear fission, nuclear fusion.</p> <p>Unit IX:</p> <p>Electronic Devices</p> <p>Chapter-14: Semiconductor Electronics: Materials, Devices and Simple Circuits</p> <p>Energy bands in conductors, semiconductors and insulators (qualitative ideas only)</p> <p>Semiconductor diode - I-V characteristics in forward and reverse bias, diode as a rectifier; Special purpose p-n junction diodes: LED, photodiode, solar cell.</p>



DAYAWATI MODI PUBLIC SCHOOL, CHANDIL

Syllabus

Session:-2023-2024

Class- 12 Subject-

Political science

Subject Teacher: Paromita Adhikary

Name of months	Working Days	Chapter / Lesson Name
April	23	* Challenges of nation building * Planning and development
May	09	* The end of bipolarity * New centres of power
June	15	* New centres of power * India's foreign policy
July	24	* Contemporary South Asia * Parties and party system in India * Democratic resurgence
August	25	* United Nations and it's organisation * Security in contemporary world * Regional aspirations
September	15	* Environment and natural resources * Globalization * Indian politics: Recent trends and developments
October	17	Revision
November	22	Revision
December	19	Revision
January	25	Revision
February	21	Revision

Syllabus

Session:-2023-2024

Class: XII

Subject : Chemistry

Subject Teacher: Niyati Rani Mahato

Name of Book:- New millennium chemistry and NCERT Chemistry

Month	Working Days	Lesson	Art integrated Project
April	23	Ch-2 Solutions Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, Raoult's law, colligative properties relative lowering of vapour pressure, elevation of boiling point, depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties, abnormal molecular mass, Van't Hoff factor.	Draw the mind map of ch- 2
May	09	Ch-4 Electrochemistry Redox reactions, EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells, Relation between Gibbs energy change and EMF of a cell, conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis and law of electrolysis (elementary idea), dry cell-electrolytic cells and Galvanic cells, lead accumulator, fuel cells, corrosion.	Draw the mind map of ch- 4&5.
June	15	Ch-6 Chemical Kinetics Rate of a reaction (Average and instantaneous), factors affecting rate of reaction:concentration, temperature, catalyst; order and molecularity of a reaction, rate law and specific rate constant, integrated rate equations and half-life (only for zero and first order reactions), concept of collision theory (elementary idea, no mathematical treatment),activation energy, Arrhenius equation. Practicals	Draw the mind map of ch- 6&7.

January	25	Revision (cn-11-17)	
February	21	Revision of All chapters.	

july	24	<p>Ch-9 d & F block elements.</p> <p>General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first-row transition metals - metallic character, ionization enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic</p> <p>properties, interstitial compounds, alloy formation, preparation and properties of $K_2Cr_2O_7$ and $KMnO_4$.</p> <p>Practicals</p>	8&9.
August	25	<p>Ch-10 Coordination compounds</p> <p>Coordination compounds Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds. Bonding, Werner's theory, VBT, and CFT; structure and stereoisomerism, the importance of coordination compounds (in qualitative analysis, extraction of metals and biological system).</p> <p>Ch- 11 Haloalkanes and Haloarenes.</p> <p>X bond, physical and chemical properties, optical rotation mechanism of substitution reactions.</p> <p>Haloarenes: Nature of C-X bond, substitution reactions (Directive influence of halogen in monosubstituted compounds only). Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.</p> <p>Ch12 Alcohols, phenols and ethers.</p> <p>Alcohols: Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only), identification of primary, secondary and tertiary alcohols. mechanism of dehydration, uses with special reference to methanol and ethanol. Phenols: nomenclature, methods of preparation, physical and chemical properties, nature of phenol, electrophilic substitution reactions, uses of phenols.</p> <p>Ethers: Nomenclature, methods of preparation, physical and chemical properties, uses.</p> <p>Practicals</p>	Draw the mind map of ch-10&11.

September	15	<p>Ch-13 Aldehyde ketones and Carboxylic acid.</p> <p>Aldehydes and Ketones: Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties, mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes, uses.</p> <p>Ch-14 Amines.</p> <p>Amines: Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines.</p> <p>Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.</p> <p>Practicals</p>	Draw the mind map of ch-12, 13 & 14.
October	17	<p>Ch-15 Biomolecules.</p> <p>Carbohydrates - Classification (aldoses and ketoses), monosaccharides (glucose and fructose), D-L configuration oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); Importance of carbohydrates. Proteins - Elementary idea of amino acids, peptide bond, polypeptides, proteins, structure of proteins primary, secondary, tertiary structure and quaternary structures (qualitative idea only), denaturation of proteins; enzymes. Hormones - Elementary idea excluding structure. Vitamins - Classification and functions. Nucleic Acids: DNA and RNA.</p> <p>Practicals</p>	Draw the mind map of ch-15 & 16.
November	22	Revision (ch-1-5)	Investigatory project Scientific investigation involving Laboratory testing and collecting information from other sources.
December	19	Revision (ch-6-10)	



DAYAWATI MODI PUBLIC SCHOOL, CHANDIL

Syllabus

Session:-2023-2024

Class 12 History

R. K sinha

Months	Days	Topic
April	23	Bricks Bead and bones
May	09	Through the eyes of travellery
June	15	Colonialism and the country side
July	24	Kings, farmer and town
August	25	Bhakti sufi tradition
Sep	15	Rebels and the Raj
Oct	17	Kinship caste and class
Nov	22	An imperial capital Vijayanagar
Dec	19	Mahatma Gandhi's and the Nationalist movement
Jan	25	Thinkets belief and building
Feb	21	Peasants zamindar and the state, Framing the Indian Constitution

Note As per CBSE, project will be given

DAYAWATI MODI PUBLIC SCHOOL, CHANDIL**Syllabus****Session - 2023-2024**Class - 12th

Subject - English Core (301)

Subject Teacher - Sunit Kumar Dey

Name of Book - Flamingo and Vistas

Month	Working Days	Lesson	Art Integrated Project
April	23	The Last Lesson (Flamingo) The Third Level (Vistas) Notice Writing	
May	09	Lost Spring (Flamingo) Formal Letter Writing	
June	15	The Tiger King (Vistas) Deep Water (Flamingo) Article Writing Application for a Job with Bio-data	
July	24	Journey to the End of the Earth (Vistas) The Rattrap (Flamingo) Keeping Quiet (Poem) (Flamingo) Indigo (Flamingo) Letter Writing to the Editor	
August	25	Report Writing The Enemy (Vistas) Keeping Quiet (Poem) (Flamingo) Poets and Pancakes (Flamingo) Short Writing: Invitation (Formal)	
September	15	A Thing of Beauty(Poem) (Flamingo) The Interview (Flamingo) A Roadside Stand(Poem) (Flamingo) Short Writing: Invitation (Informal) Going Places (Flamingo)	

October	17	On the Face of it (Vistas) Aunt Jennifer's Tigers (Poem) (Flamingo) Memories of Childhood (Vistas)	
November	22	Revision for Literature Section Revision for Writing Section	
December	19	Revision for Examination	
January	25	Revision for Examination	
February	21	Revision for Examination	