



## ST. MARY'S SENIOR SECONDARY SCHOOL, RUDRAPUR

AGGREGATE SYLLABUS OF XII COMMERCE 2024-25

ENGLISH CORE (301) SYLLABUS (2024-25)

MONTH	UNIT NAME
April	The Last Lesson Third Level The Tiger King Notice Writing Job Application
May	My Mother at Sixty Six Article Writing Lost Spring Letter to Editor
<b>QUARTERLY EXAM</b>	
July	Deep Water Rattrap Indigo Journey to the end of the earth Report Writing
August	Interview The Enemy Invitation and Reply to Invitation A Thing of Beauty
September	A Roadside stand Poets and Pancakes
<b>HALF -YEARLY EXAMINATION</b>	
October	On the Face of it Going Places Memories of childhood Aunt Jennifer's Tigers
November	Revision I PRE-BOARD

Change can be acceptable as per CBSE Update.

## ANNUAL SYLLABUS OF ACCOUNTANCY (055) SSCE FOR 2024-25

MONTH	CHAPTER/TOPIC	LEARNING OUTCOME
<p><b>APRIL</b></p>	<p>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). <b>Accounting for Partnership firms - Reconstitution and Dissolution.</b> • 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, accumulated profits and losses. 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 (as per AS 26), treatment for revaluation of assets and reassessment of liabilities, treatment of reserves, accumulated profits and losses, adjustment of capital accounts and preparation of capital, current account and balance sheet. Retirement and death of a partner: effect of retirement / death of a partner on change in profit sharing ratio, treatment of goodwill (as per AS 26), treatment for revaluation of assets and reassessment of liabilities, adjustment of accumulated profits, losses and reserves, adjustment of capital accounts and preparation of capital, current account and balance sheet. Preparation of loan account of the retiring partner. • Calculation of deceased partner's share of profit till the date of death. Preparation of deceased partner's capital account and his executor's account.</p>	<p>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 profit and loss appropriation account involving guarantee of profits. • develop the understanding and skill of making past adjustments. • state the meaning, nature and factors 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 as per AS-26, treatment of revaluation of assets and re-assessment of liabilities, treatment of reserves and accumulated profits, adjustment of capital accounts and preparation of capital, current account and balance sheet of the new firm. 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, losses and reserves on retirement / death of a partner and capital adjustment. • develop the skill of calculation of deceased partner's share till the time of his death and prepare deceased partner's and executor's account. • discuss the preparation of the capital accounts of the remaining partners and the balance sheet of the firm after retirement / death of a partner.</p>
<p><b>MAY</b></p>	<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.</p>	<p>Understand the situations under which a partnership firm can be dissolved. • develop the understanding of preparation of realisation account and other related accounts</p>

	<b>QUARTERLY EXAMINATION</b>	
<b>JULY</b>	<p>Accounting for Share Capital • Features and types of companies. • Share and share capital: nature and types. After going through this Unit, the students will be able to: • state the meaning of share and share capital • Accounting for share capital: issue and allotment of equity and preferences 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), Sweat Equity. • Accounting treatment of forfeiture and reissue of shares. • Disclosure of share capital in the Balance Sheet of a company.</p> <p>Accounting for Debentures • Debentures: Meaning, types, 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 (concept of TDS is excluded). Writing off discount / loss on issue of debentures.</p> <p>Financial statements of a Company: Meaning, Nature, Uses and importance of financial Statement. Statement of Profit and Loss and Balance Sheet in After going through this Unit, the students will be able to: • develop the understanding of major headings and sub-headings (as per Schedule III to the prescribed form with major headings and sub headings (as per Schedule III to the Companies Act, 2013)</p>	<p>state the meaning of share and share capital • <b>Accounting for share capital:</b> issue and allotment of equity and preferences 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), Sweat Equity. • Accounting treatment of forfeiture and reissue of shares. • Disclosure of share capital in the Balance Sheet of a company.</p> <p>Accounting for Debentures • Debentures: Meaning, types, 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 (concept of TDS is excluded). Writing off discount / loss on issue of debentures.</p> <p>Note: Discount or loss on issue of debentures to be written off in the year debentures are allotted from Security Premium Reserve (if it exists) and then from Statement of Profit and Loss as Financial Cost (AS 16) 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. 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.</p>
<b>AUGUST</b>	<p>Financial Statement Analysis: Meaning, Significance Objectives, importance and limitations. • Tools for Financial Statement Analysis: Comparative statements, common size statements, Ratio analysis, Cash flow analysis. • Accounting Ratios: Meaning, Objectives, Advantages, 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. Debt to Capital Employed Ratio. • Activity Ratios: Inventory Turnover Ratio, Trade</p>	<p>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'. • develop the skill of preparation of preparation of comparative and common size statement, understand their uses and difference between the two. • 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 and others. • develop the skill of computation of</p>

	Receivables Turnover Ratio, Trade Payables Turnover Ratio, Fixed Asset Turnover Ratio, Net Asset Turnover Ratio and Working Capital Turnover Ratio. • Profitability Ratios: Gross Profit Ratio, Operating Ratio, Operating Profit Ratio, Net Profit Ratio and Return on Investment.	gross profit ratio, operating ratio, operating profit ratio, net profit ratio and return on investment.
<b>SEPTEMBER</b>	<b>HALF YEARLY EXAMINATION</b> <b>Cash Flow Statement</b> Meaning, objectives Benefits, Cash and Cash Equivalents, Classification of Activities and preparation (as per AS 3 (Revised) (Indirect Method only)	<b>RESULT</b> • state the meaning and objectives of cash flow statement • develop the understanding of preparation of Cash Flow Statement using indirect method as per AS 3 with given adjustments.
<b>OCTOBER</b>	<b>REVISION &amp; PRE-BOARD I</b>	<b>RESULT</b>
<b>NOVEMBER</b>	<b>REVISION CLASSES</b> <b>BOARD EXAMINATION</b>	DOUBT CLARIFICATION
<b>DECEMBER</b>	<b>BOARD EXAMINATION</b> <b>REVISION CLASSES</b>	DOUBT CLARIFICATION
<b>JANUARY</b>	<b>BOARD PRACTICALS</b>	----
<b>FEBRUARY</b>	<b>BOARD PRACTICALS</b>	----
<b>MARCH</b>	<b>FINAL BOARDS</b>	----

**ANNUAL SYLLABUS OF BUSINESS STUDIES (054) SSCE FOR 2024-25**

MONTH	CHAPTER/TOPIC	LEARNING OUTCOME
APRIL	<p><b>Part A: Principles and Functions of Management Unit 1: Nature and Significance of Management</b></p> <p>Management - concept, objectives, and importance • Understand the concept of management. • Explain the meaning of ‘Effectiveness and Efficiency. • Discuss the objectives of management. • Describe the importance of management. Management as Science, Art and Profession • Examine the nature of management as a science, art and profession. Levels of Management • Understand the role of top, middle and lower levels of management Management functions-planning, organizing, staffing, directing and controlling • Explain the functions of management Coordination- concept and importance • Discuss the concept and characteristics of coordination. • Explain the importance of coordination.</p> <p><b>Unit 2: Principles of Management</b> Principles of Management - concept and significance Fayol’s principles of management Taylor’s Scientific management - principles and techniques</p> <p><b>Unit 3: Business Environment</b> Business Environment- concept and importance Dimensions of Business Environment - Economic, Social, Technological, Political and Legal Demonetization - concept and features</p>	<p>Management - concept, objectives, and importance • Understand the concept of management. • Explain the meaning of ‘Effectiveness and Efficiency. • Discuss the objectives of management. • Describe the importance of management. Management as Science, Art and Profession • Examine the nature of management as a science, art and profession. Levels of Management • Understand the role of top, middle and lower levels of management Management functions-planning, organizing, staffing, directing and controlling • Explain the functions of management Coordination- concept and importance • Discuss the concept and characteristics of coordination. • Explain the importance of coordination.</p> <p>• 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.</p> <p>• Understand the concept of ‘Business Environment’. • Describe the importance of business environment • Describe the various dimensions of ‘Business Environment’. • Understand the concept of demonetization</p>
MAY	<p><b>Unit 4: Planning</b> Planning: Concept, importance and limitation Planning process Single use and Standing Plans. Objectives, Strategy, Policy, Procedure, Method, Rule, Budget and Programme</p> <p><b>QUARTERLY EXAMINATION</b></p>	<p>• 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 • Describe objectives, policies, strategy, procedure, method, rule, budget and programme as types of plans.</p>
JULY	<p><b>Unit 5: Organising</b> Organising: Concept and importance Organising Process</p>	<p>• Understand the concept of organizing as a structure and as a process. • Explain the importance of organising. Describe the steps in the process of organizing</p>

	<p>Structure of organisation- functional and divisional concept. Formal and informal organization – concept</p> <p>Delegation: concept, elements, and importance</p> <p>Decentralization: concept and importance</p> <p><b>Unit 6: Staffing</b>  Staffing: Concept and importance of staffing  Staffing as a part of Human Resource Management concept  Staffing process  Recruitment process</p> <p>Selection – process</p> <p>Training and Development - Concept and importance, Methods of training - on the job and off the job - vestibule training, apprenticeship training and internship training</p> <p><b>Unit 7 Directing:</b> Concept and importance  Elements of Directing  Motivation – concept, Maslow’s hierarchy of needs, Financial and non-financial incentives,  Leadership – concept, styles – authoritative, democratic and laissez faire  Communication – concept, formal and informal communication; barriers to effective communication, how to overcome the barriers?</p> <p><b>Unit 11: Marketing</b>  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.</p>	<p>Describe functional and divisional structures of organisation. • 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.</p> <p>Understand the concept of delegation. • Describe the elements of delegation. • Appreciate the importance of Delegation.</p> <p>Understand the concept of decentralisation. • Explain the importance of decentralisation. • Differentiate between delegation and decentralisation.</p> <p>Understand the concept of staffing. • Explain the importance of staffing</p> <p>Understand the specialized duties and activities performed by Human Resource Management</p> <p>Describe the steps in the process of staffing.</p> <p>Understand the meaning of recruitment. • Discuss the sources of recruitment. • Explain the merits and demerits of internal and external sources of recruitment.</p> <p>Understand the meaning of selection. • Describe the steps involved in the process of selection.</p> <p>Understand the concept of training and development.  Appreciate the importance of training to the organisation and to the employees. • Discuss the meaning of induction training, vestibule training, apprenticeship training and internship training. • Differentiate between training and development. • Discuss on the job and off the job methods of training.</p> <p>Describe the concept of directing. • Discuss the importance of directing.  Describe the various elements of directing.</p> <p>Understand the concept of motivation. • Develop an understanding of Maslow’s Hierarchy of needs. • Discuss the various financial and non-financial incentives</p> <p>Understand the concept of leadership. • Understand the various styles of leadership.</p> <p>Understand the concept of communication • Understand the elements of the communication process. • Discuss the concept of formal and informal communication. • Discuss the various barriers to effective communication. • Suggest measures to overcome barriers to communication.</p> <p>To understand the concept of marketings its functions, Four P’s factor affecting 4 P’s etc.</p>
AUGUST	<p><b>Unit 9: Financial Management</b>  Financial Management: Concept, role and objectives.  Financial decisions: investment, financing and dividend - Meaning and factors affecting.  Financial Planning - concept and importance</p>	<p>Understand the concept of financial management. • Explain the role of financial management in an organisation. • 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. • Explain the importance of financial planning</p>

	<p>Capital Structure – concept and factors affecting capital structure. Fixed and Working Capital - Concept and factors affecting their requirements</p> <p><b>Unit 10: Financial Markets</b> Financial Markets: Concept Money Market Concept Capital Market and its types Stock exchange-functions and trading procedure. Securities and Exchange Board of India objectives and functions</p> <p><b>Unit 12 Consumer Protection</b> Consumer Protection: Concept and importance The Consumer Protection Act, 2019: Meaning of consumer Rights and responsibilities of consumers Who can file a complaint? Redressal machinery Remedies available</p> <p>Consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs)</p>	<p>Understand the concept of capital structure. • Describe the factors determining the choice of an appropriate capital structure of a company</p> <p>Understand the concept of fixed and working capital. • Describe the factors determining the requirements of fixed and working capital.</p> <p>To understand the concept of financial market, money market, primary and secondary market, its differentiation, meaning of stock exchange, trading procedure in a stock exchange. Meaning of depository services and demat account as used in the trading procedure of securities.</p> <p>• Understand the concept of consumer protection. • Describe the importance of consumer protection. • Discuss the scope of Consumer Protection Act, 2019</p> <p>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</p> <p>• Describe the role of consumer organizations and NGOs in protecting consumers' interests.</p>
<b>SEPTEMBER</b>	<p><b>HALF YEARLY EXAMINATION</b></p> <p><b>Unit 9 Controlling</b> - Concept and importance Relationship between planning and controlling. Steps in process of control</p>	<p><b>RESULT</b></p> <p>• Understand the concept of controlling. • Explain the importance of controlling. • Describe the relationship between planning and controlling Discuss the steps in the process of controlling.</p>
<b>OCTOBER</b>	<b>REVISION &amp; PRE-BOARD I</b>	<b>RESULT</b>
<b>NOVEMBER</b>	<b>REVISION CLASSES</b>	DOUBT CLARIFICATION
<b>DECEMBER</b>	<b>BOARD EXAMINATION</b>	
	<b>REVISION CLASSES</b>	DOUBT CLARIFICATION
<b>JANUARY</b>	<b>BOARD PRACTICALS</b>	----
<b>FEBRUARY</b>	<b>BOARD PRACTICALS</b>	----
<b>MARCH</b>	<b>FINAL BOARDS</b>	----

## ANNUAL SYLLABUS FOR CLASS XII ECONOMICS (030)

MONTH	UNIT	DETAILED SYLLABUS
APRIL	<b>Money and Banking</b>	<ul style="list-style-type: none"> <li>• Money – meaning and supply of money – Currency held by the public and net demand deposits held by commercial banks.</li> <li>• Money creation by the commercial banking system.</li> <li>• The central bank and its functions (example of the Reserve Bank of India): Bank of issue, Govt. Bank, Banker’s Bank, Control of Credit</li> </ul>
MAY Quarterly Exam	<b>Development Experience (1947-90) and Economic Reforms since 1991:</b>  <u>Quarterly Exam</u>	<ul style="list-style-type: none"> <li>• A brief introduction of the state of the Indian economy on the eve of independence. Indian economic system and common goals of Five Year Plans.</li> <li>• Main features, problems, and policies of agriculture (institutional aspects and new agricultural strategy), industry (IPR 1956; SSI – role &amp; importance), and foreign trade.</li> <li>• <b>Economic Reforms since 1991:</b> <ul style="list-style-type: none"> <li>• Features and appraisals of liberalization, globalization, and privatization (LPG policy); Concepts of demonetization and GST</li> </ul> </li> </ul>
JULY	<i>Determination of Income and Employment</i>	<ul style="list-style-type: none"> <li>• Aggregate demand and its components.</li> <li>• The 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.</li> <li>• 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.</li> </ul>
AUGUST	<i>National Income and Related Aggregates</i>	<ul style="list-style-type: none"> <li>• What is Macroeconomics?</li> <li>• Basic concepts in macroeconomics: consumption goods, capital goods, final goods, intermediate goods; stocks and flows; gross investment, and depreciation.</li> <li>• Circular flow of income (two-sector model); Methods of calculating National Income – Value Added or Product method, Expenditure method, Income method.</li> <li>• Aggregates related to National Income:</li> <li>• 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.</li> <li>• GDP and Welfare</li> </ul>



	Current challenges facing the Indian Economy	<ul style="list-style-type: none"> <li>• <b>Human Capital Formation:</b> How people become resource; Role of human capital in economic development;</li> <li>• <b>Rural development:</b> Key issues – credit and marketing – the role of cooperatives; agricultural diversification;</li> </ul>
SEPTEMBER	Government Budget and the Economy  <u>HALF-YEARLY EXAM</u>	<ul style="list-style-type: none"> <li>• Government budget – meaning, objectives, and components.</li> <li>• Classification of receipts – revenue receipts and capital receipts; classification of expenditure – revenue expenditure and capital expenditure.</li> <li>• Measures of government deficit – revenue deficit, fiscal deficit, primary deficit their meaning.</li> </ul>
OCTOBER	Current challenges facing the Indian Economy	<ul style="list-style-type: none"> <li>• <b>Employment:</b> Growth and changes in the workforce participation rate in formal and informal sectors; problems and policies</li> <li>• <b>Sustainable Economic Development:</b> Meaning, Effects of Economic Development on Resources and Environment, including global warming</li> </ul>
	Balance of Payments  Development Experience of India:	<ul style="list-style-type: none"> <li>• Balance of payments account – meaning and components;</li> <li>• Foreign exchange rate – meaning of fixed and flexible rates and managed to float.</li> <li>• A comparison with neighbors India and Pakistan</li> <li>• India and China</li> <li>• Issues: economic growth, population, sectoral development, and other Human Development Indicators</li> </ul>
NOVEMBER	<u>PREBOARD - I</u>	
		Revision + project file + Board practical
	<u>PREBOARD – II</u>	

## Computer Science (Python 083) Syllabus-(2024-25)

Class XII (Theory+ Practical)

Month	Unit Name	Periods	
		Theory	Practical
March April	<ul style="list-style-type: none"> <li>➤ Database Management System</li> <li>➤ Functions in Python</li> <li>➤ MySQL and Interface with Python</li> </ul>	50	30
May	<b>Quarterly Exam</b>		
May	<ul style="list-style-type: none"> <li>➤ Revision Tour XI- Part1</li> <li>➤ Revision Tour XI- Part2</li> </ul>	40	30
July	Computational Thinking and Programming – 2 <ul style="list-style-type: none"> <li>➤ Exception Handling</li> <li>➤ Object Oriented Programming in PYTHON</li> <li>➤ File Handling in PYTHON</li> </ul>	50	45
August	<ul style="list-style-type: none"> <li>➤ Text File in PYTHON</li> <li>➤ Binary File in PYTHON</li> <li>➤ Comma Separated Values in PYTHON</li> <li>➤ Data Structure</li> </ul>	50	30
September	<b>Half Yearly Exams</b>		
October	<b>Pre Board 1<sup>st</sup></b>		
November	<ul style="list-style-type: none"> <li>➤ Computer Networks</li> <li>➤ Cyber Safety, Law and Ethics-2</li> </ul>	35	20
December	<ul style="list-style-type: none"> <li>➤ Revision: For Board Exams</li> <li>➤ File and Project Work</li> </ul>		
January	<b>Pre Board 2<sup>nd</sup></b>		
February	<b>Revision + File work + Project work + Lab Visit + Board Practical</b>		

**Change can be acceptable as per CBSE update**

	<b>PHYSICAL EDUCATION (048) ANNUAL CURRICULUM</b>
<b>APRIL</b>	<p><b>Unit I Management of sporting events.</b>  Meaning &amp; function Of Sports events management (planning, organizing, staffing, directing and controlling)</p> <ul style="list-style-type: none"> <li>● Various Committees &amp; its Responsibilities (pre; during &amp; post)</li> <li>● Tournament – Knock-Out, League Or Round Robin &amp; Combination</li> <li>● Procedure To Draw Fixtures – Knock-Out (Bye &amp; Seeding) &amp; League (Staircase &amp; Cyclic)</li> <li>● Intramural &amp; Extramural – Meaning, Objectives &amp; Its Significance</li> <li>● Community sports- purpose and benefits.</li> </ul> <p><b>Unit II Children &amp; Women in Sports</b></p> <ul style="list-style-type: none"> <li>● Common Postural Deformities - Knock Knee; Bow Legs; Flat Foot; Round Shoulders; Lordosis, Kyphosis, and Scoliosis and their corrective measures</li> <li>● Special consideration (Menarche &amp; Menstrual Dysfunction)</li> <li>● Female Athletes Triad (Osteoporosis, Amenorrhea, Eating Disorders)</li> </ul> <p><b>Unit III Yoga as Preventive measure for Lifestyle Disease</b></p> <ul style="list-style-type: none"> <li>● Obesity: Procedure, Benefits &amp; Contraindications for Tadasana, Katichakrasana, Pavanmuktasana, Matsayasana, Halasana, Pachimottansana, Ardha – Matsyendrasana, Dhanurasana, Ushtrasana, Suryabedhan pranayama.</li> <li>● Diabetes: Procedure, Benefits &amp; Contraindications for Katichakrasana, Pavanmuktasana, Bhujangasana, Shalabhasana, Dhanurasana, Supta-vajarasana, Paschimottanasana, Ardha-Mastendrasana, Mandukasana, Gomukasana, Yogmudra, Ushtrasana, Kapalabhati.</li> <li>● Asthma: Procedure, Benefits &amp; Contraindications for Tadasana, Urdhwahastottansana, UttanMandukasana, Bhujangasana, Dhanurasana, Ushtrasana, Vakrasana, Kapalabhati, Gomukhasana Matsyaasana, Anuloma- Viloma.</li> </ul>

	<ul style="list-style-type: none"> <li>• Hypertension: Procedure, Benefits &amp; Contraindications for Tadasana, Katichakransan, Uttanpadasana, Ardha Halasana, Sarala Matyasana, Gomukhasana, UttanMandukasana, Vakrasana, Bhujangasana, Makarasana, Shavasana, Nadi- shodhanapranayam, Sitlipranayam.</li> </ul>
MAY	<p><b>QUARTERLY EXAM</b></p>
MAY	<p><b>Unit IV Physical Education &amp; Sports for CWSN (Children with Special Needs - Divyang)</b></p> <ul style="list-style-type: none"> <li>• Organizations promoting Disability Sports (Special Olympics; Paralympics; Deaflympics)</li> <li>• Advantages of Physical Activities for children with special needs.</li> <li>• Strategies to make Physical Activities assessable for children with special needs.</li> </ul>
JULY	<p><b>Unit V Sports &amp; Nutrition</b></p> <ul style="list-style-type: none"> <li>• Concept of balance diet and nutrition</li> <li>• Macro and Micro Nutrients: Food sources &amp; functions</li> <li>• Nutritive &amp; Non-Nutritive Components of Diet</li> </ul> <p><b>Unit VI Test &amp; Measurement in Sports</b></p> <ul style="list-style-type: none"> <li>• Fitness Test – SAI Khelo India Fitness Test in school: <ul style="list-style-type: none"> <li>○ Age group 5-8 yrs/ class 1-3: BMI, Flamingo Balance Test, Plate Tapping Test</li> <li>○ Age group 9-18yrs/ class 4-12: BMI, 50mt Speed test, 600mt Run/Walk, Sit &amp; Reach flexibility test, Strength Test (Abdominal Partial Curl Up, Push-Ups for boys, Modified Push-Ups for girls).</li> </ul> </li> <li>• Computing Basal Metabolic Rate (BMR)</li> <li>• Rikli &amp; Jones - Senior Citizen Fitness Test <ol style="list-style-type: none"> <li>Chair Stand Test for lower body strength</li> <li>Arm Curl Test for upper body strength</li> <li>Chair Sit &amp; Reach Test for lower body flexibility</li> <li>Back Scratch Test for upper body flexibility</li> <li>Eight Foot Up &amp; Go Test for agility</li> <li>Six Minute Walk Test for Aerobic Endurance</li> </ol> </li> </ul>

AUGUST	<p>Unit VI Test &amp; Measurement in Sports</p> <ul style="list-style-type: none"> <li>• Measurement of Cardio Vascular Fitness – Harvard Step Test/Rockport Test - Computation of Fitness Index:  <math display="block">\frac{\text{Duration of the Exercise in Seconds} \times 100 \times 5.5}{\text{x Pulse count of 1-1.5 Min after Exercise}}</math> </li> <li>• Johnson- Metheny test of motor educability (Front roll, back roll, jumping half turn, jumping full turn)</li> </ul> <p><b>Half yearly examination</b></p> <p>Unit VII Physiology &amp; Injuries in Sports</p>
SEPTEMBER	<ul style="list-style-type: none"> <li>• Physiological factor determining component of Physical Fitness</li> </ul> <p><b>PREBOARD I</b></p>
OCTOBER	<ul style="list-style-type: none"> <li>• Effect of exercise on Cardio Respiratory System</li> <li>• Effect of exercise on Muscular System</li> <li>• Physiological changes due to ageing</li> </ul>
OCTOBER	<ul style="list-style-type: none"> <li>• Sports injuries: Classification (Soft Tissue Injuries:(Abrasion, Contusion, Laceration, Incision, Sprain &amp; Strain) Bone &amp; Joint Injuries: (Dislocation, Fractures: Stress Fracture, Green Stick, Communated, Transverse Oblique &amp; Impacted) Causes, Prevention&amp; treatment</li> <li>• First Aid – Aims &amp; Objectives</li> </ul> <p><b>Unit VIII Biomechanics &amp; Sports</b></p> <ul style="list-style-type: none"> <li>• Newton’s Law of Motion &amp; its application in sports</li> <li>• Equilibrium – Dynamic &amp; Static and Centre of Gravity and its application in sports</li> <li>• Friction &amp; Sports</li> <li>• Projectile in Sports</li> </ul>

<b>NOVEMBER</b>	<p>Unit IX Psychology &amp; Sports</p> <ul style="list-style-type: none"> <li>● Personality; its definition &amp; types – Trait &amp; Types (Sheldon &amp; Jung Classification) &amp; Big Five Theory</li> <li>● Motivation, its type &amp; techniques</li> <li>● Exercise Adherence; Reasons to Exercise, Benefits of Exercise</li> <li>● Strategies for Enhancing Adherence to Exercise</li> <li>● Meaning, Concept &amp; Types of Aggressions in Sports</li> <li>● Psychological attributes in sports- self-esteem, mental imagery, self-talk, goal setting.</li> </ul> <p>Unit X Training in Sports</p> <ul style="list-style-type: none"> <li>● Strength – Definition, types &amp; methods of improving Strength – Isometric, Isotonic &amp; Isokinetic</li> <li>● Endurance - Definition, types &amp; methods to develop Endurance – Continuous Training, Interval Training &amp; Fartlek Training</li> <li>● Speed – Definition, types &amp; methods to develop Speed – Acceleration Run &amp; Pace Run</li> <li>● Flexibility – Definition, types &amp; methods to improve flexibility</li> <li>● Coordinative Abilities – Definition &amp; types</li> <li>● Circuit Training - Introduction &amp; its importance</li> </ul>
<b>DECEMBER</b>	<b>REVISION</b>
<b>JANUARY</b>	<b>PREBOARD II</b>

# XII SYLLABUS OF MATHEMATICS 2024-25

MONTH	BOOK NAME	CHAPTER TOPICS	ACTIVITY
<b>APRIL</b>	NCERT     Lab Manual	<p><b>Matrices:</b> Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operation on matrices: Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication.</p> <p><b>Relations and Function:</b> Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions,</p> <p><b>Inverse Trigonometric Functions</b> Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions. Elementary properties of inverse trigonometric functions</p> <p><b>Determinants</b> Determinant of a square matrix (up to <math>3 \times 3</math> matrices), properties of determinants, minors, co-factors and applications of determinants in finding the area of a triangle.</p>	<b>ACTIVITY ON GRAPH OF INVERSE OF FUNCTIONS</b>
<b>MAY</b>	NCERT	<p><b>Continuity and Differentiability</b> Continuity and differentiability, derivative of composite functions, chain rule, derivatives of inverse trigonometric functions, derivative of implicit functions. Concept of exponential and logarithmic functions</p> <p style="text-align: center;"><b>QUATERLY EXAMINATION</b></p> <p style="text-align: center;"><b>SUMMER VACATIONS</b></p>	<b>MATH ACTIVITY ON CONTINUITY THROUGH DESMOS</b>

<p style="text-align: center; border: 1px solid red; padding: 5px;"><b>JULY</b></p>	<p>3. NCERT</p>	<p><b>Applications of Derivatives:</b> Applications of derivatives: rate of change of bodies, increasing/decreasing functions, tangents and normals, use of derivatives in approximation, maxima and minima</p>	<p><b>REAL LIFE PROBLEMS AND THEIR PROOF THROUGH PAPER CUTTING</b></p>
<p style="text-align: center; border: 1px solid blue; padding: 5px;"><b>JULY</b></p>	<p>4. NCERT</p>	<p><b>Applications of Derivatives</b></p> <p>First derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as real-life situations)</p>	<p><b>GEOMETRICALLY MEANING OF LMVT</b></p>
<p style="text-align: center; border: 1px solid red; padding: 5px;"><b>AUGUST</b></p>	<p>5.</p>	<p><b>Integrals:</b> Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple integrals of the following types and problems based on them. Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals</p> <p><b>Applications of the Integrals</b></p> <p>Applications in finding the area under simple curves, especially lines, circles/parabolas/ellipses (in standard form only), Area between any of the two above said curves (the region should be clearly identifiable).</p>	<p><b>GRAPHS</b></p>



<p style="text-align: center; border: 1px solid red; padding: 5px;"><b>SEPTEMBER</b></p>	<p>6.</p>	<p><b>Differential Equations</b> Definition, order and degree, general and particular solutions of a differential equations. Formation of differential equation whose general solution is given.</p> <p>Solution of differential equations by method of separation of variables solutions of homogeneous differential equations of first order and first degree. Solutions of linear differential equation of the type: <math>dy/dx + py = q</math>, where p and q are functions of x or constants. <math>dx/dy + px = q</math>, where p and q are functions of y or constants</p> <p style="text-align: center;"><b>HALF YEARLY EXAMINATION</b></p>	<p style="text-align: center;"><b>GRAPHS OF DIFFERENT CURVES THROUGH IT</b></p>
<p style="text-align: center; border: 1px solid red; padding: 5px;"><b>OCTOBER</b></p>	<p>7.</p>	<p><b>Vectors</b> Vectors and scalars, magnitude and direction of a vector. Direction cosines and direction ratios of a vector. Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point, negative of a vector, components of a vector.</p> <p><b>Three - dimensional Geometry</b> Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector equation of a line, coplanar and skew lines, shortest distance between two lines.</p> <p><b>Linear Programming</b> Introduction, related terminology such as constraints, objective function, optimization, different types of linear programming (L.P.) problems, mathematical formulation of L.P. problems, 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 non-trivial constraints)</p> <p><b>Probability</b> Conditional probability, multiplication theorem on probability. independent events, total probability, Baye's theorem, Random variable and its probability</p>	<p style="text-align: center;"><b>LAB ACTIVITY FOR FINDING S.D BETWEEN TWO SKEW LINES</b></p>

		distribution  <b>PRE -BOARD 1</b>	
<b>NOVEMBER</b>	8.	<b>REVISION OF PREVIOS CHAPTERS SAMPLE PAPER</b>	
<b>DECEMBER</b>		<b>PRE BOARD II</b>	
<b>JANUARY</b>			

# Information Technology (802) Syllabus-(2024-25)

Class XII (Theory+ Practical)

Month	Unit Name	Periods	
		Theory	Practical
April	<b>Part-A</b> Unit 1: Communication Skills-IV Unit 2: Self-Management Skills-IV <b>Part-B</b> Unit-3: Fundamentals of Java Programming	10	05
May	<b>Part-B</b> Unit-3: Fundamentals of Java Programming <b>Part-A</b> Unit 3: ICT Skills-IV	3	6
<b>Quarterly Exams</b>			
July	<b>Part-A</b> Unit 4: Entrepreneurial Skills-IV <b>Part-B</b> Unit-3: Fundamentals of Java Programming Unit -2: Operating Web Based Applications.	10	5
August	<b>Part-B</b> Unit-1: Database Concepts – RDBMS Tool Unit-4: Work Integrated Learning IT- DMA.	11	4
September	<b>Half Yearly Examination</b>		
October	<b>Part-B</b> Unit-4: Work Integrated Learning IT-DMA. <b>Part-A</b> Unit 5: Green Skills-IV	06	02
<b>PRE-BOARD 1<sup>ST</sup> EXAMS</b>			
November	<b>Revision Work (Sample papers) + Lab Visit</b>	7	8
December	<b>Revision Work + Lab Visit +Project files</b>	7	8
January	<b>Pre-Board 2nd Exams</b> Revision Work + Lab Visit		

**Change can be acceptable as per CBSE update.**