

ANNUAL PLAN (Class XII) 2023-24

CLASS: XII		BOOKS : FLAMINGO AND VISTAS				
MONTH	CHAPTER	PDS	TOPICS	LEARNING OBJECTIVES	LEARNING OUTCOMES	UT/PT/T1
APRIL	CH-Comprehension, The Last Lesson SDG 16-Peace Justice and Strong Institutions; My Mother At Sixty Six ; The Third Level ; The Lost Spring SDG 1- No Poverty	18	<ul style="list-style-type: none"> Comprehension ; Notice ;The Last Lesson SDG 16-Peace, Justice And Strong Institutions. Life skills- Communication and Collaboration My Mother At Sixty Six Life skill - Critical Thinking The Third Level Life Skills- Coping with Emotion. The Lost Spring SDG 1- No Poverty Life skills -Critical Thinking and Problem Solving, Communication, Collaboration Letter Writing (Editor); Assessment of the chapters taught in April. <p>ACTIVITY- 1 Subject Enrichment- Activity: Debate on "Linguistic Chauvinism" Should Be Encouraged Skills: Communication and Collaboration</p> <p>ACTIVITY -2 Group discussion on availability of education for the poor, problems and their dreams.</p>	<ul style="list-style-type: none"> Students are made to realize the futility of war Peace is the ultimate solution Importance of knowing a language especially the mother tongue Learn to do away with procrastination Develop the need of emotional connect with the elders at home No one is immortal Understand the poetic devices Contrast the modern world and the ancient worlds Understand that anxiety is the main cause of problems Look for solutions rather than running away from problems Poverty and squatters are the hindrances to a nation's growth Need for strong hold over refugees To lend a helping hand in the development of the impoverished 	<p>Students will be able to –</p> <ul style="list-style-type: none"> Appreciate tolerance Try to know their mother tongue if they do not know it Do their work on time Respect elders at home Be critical thinkers Have concern for the poor 	UT-1 (24.4.23) Comprehension Notice The Last Lesson My Mother At Sixty Six

			Skills: Critical Thinking and Problem Solving, Communication, Collaboration			
MAY	CH-Letter to the Editor; The Tiger King SDG 15- Life On Land	12	<ul style="list-style-type: none"> The Tiger King SDG 15- Life On Land. Lifeskill- Creativity 	<ul style="list-style-type: none"> ➤ Enriching the vocabulary ➤ Giving practical knowledge to students to write letters pertaining to issues affecting a mass of people ➤ Sensitizing towards conservation of wild life ➤ Concern for lives on land to be made clear 		
JUNE	CH- The Tiger King SDG 15- Life On Land; Deep Water; An Elementary School Classroom In a Slum Report Writing	11	<p>Deep Water SDG 3- Good Health and Well being. Life skills- Critical Thinking Problem solving, Communication, Collaboration</p> <ul style="list-style-type: none"> Report Writing- Life Skills: Creativity, Communication. <p>ACTIVITY-1 Art Integrated Learning : Poster Making on Extinction and Conservation of Wild Life.</p> <p>ACTIVITY-2 Experiential Learning: Interviewing family to understand the phobias they suffered from. To be done in A4 sized sheet, video of the same to be recorded and submitted.</p> <p>ACTIVITY-3 <u>Subject Enrichment</u></p>	<ul style="list-style-type: none"> ➤ Sensitizing towards callousness of human beings towards innocent animals ➤ Acquiring a problem solving attitude ➤ strengthen their logical and critical thinking skills ➤ to analyze fear psychologically and reflect on the steps to overcome ➤ develop an understanding of another person's experience. ➤ introspect on their fears and think of strategies of overcoming it in a controlled environment ➤ Understanding Dos and Don'ts of a report ➤ Language proficiency ➤ Develop concern for the underprivileged ➤ Respect the opportunity for getting education ➤ Compare the benefits we 	<p>Students will-</p> <ul style="list-style-type: none"> ➤ Not hit animals ➤ Be able to solve problems ➤ Learn to overcome fear ➤ Be able put themselves in someone else's shoes ➤ Respect what they have and the slum children don't have ➤ Understand All that Glitters Is Not Gold 	

			<p>Reports based on Education/Sports/Pertaining to Students to be read and brought to the class for discussion.</p> <p>ACTIVITY=4 <u>Subject Enrichment</u> Prepare a short PPT showing the plight of students studying in a slum school</p>	<p>get as compared to the those who go to village/Govt. schools</p> <p>➤ Outwardly shows are deceptive</p>		
JULY	<p>CH- Report Writing; Notice Writing; Formal and Informal Invitations and Replies; Case Based Comprehension; Journey to the End Of the Earth SDG 13- Climate Action; Keeping Quiet SDG 16 Peace Justice and Strong Institutions; Article Writing</p>	23	<ul style="list-style-type: none"> • Report Writing- Life Skills: Creativity, Communication • Notice writing- Life Skills: Creativity, Communication • Formal and Informal Invitation and Replies • Life Skills: Creativity, Communication. • Case Based Comprehension. • Journey to The End Of The Earth. SDG 13 - Climate Action. • Life skills- Communication, Critical Thinking Problem Solving and Collaboration • Keeping Quiet • Article Writing- Listening Skill and Speaking Skills • Life Skills- Communication & Collaboration 	<p>➤ Enrich the vocabulary</p> <p>➤ Help them learn creative writing</p> <p>➤ Make it clear how to write a comprehensive notice or a report</p> <p>➤ Write report on general topics</p> <p>➤ Teach rules pertaining to the invitations</p> <p>➤ Usage of proper and formal words in drafting invitations</p> <p>➤ Techniques to follow while reading a comprehension</p> <p>➤ How to make use of the given data in the form of graph etc</p> <p>➤ Appreciate and empathize with and follow the initiatives taken at national and international levels for a sustainable earth.</p> <p>➤ Understand the direct impact of carbon emissions which affect the ozone layer which in turn melts the polar ice layers</p>	<p>Students will-</p> <p>➤ Be able to write reports</p> <p>➤ Draft invitations in real life situations</p> <p>➤ Be global citizens and help in sustaining the resources of the earth</p> <p>➤ Answer comprehensions</p> <p>➤ Recognise the need of quiet time and introspection</p>	<p>UT-2 (17.7.23) Comprehension Third Level Deep Water The Lost Spring Report Writing</p>

			<p>ACTIVITY-1 Art Integrated Learning - Students will prepare a flowchart on the benefit of meditation. (Keeping Quiet)Students will be asked to practise meditation in class and share their experiences with everyone.</p> <p>➤</p> <p>ACTIVITY-2 Experiential Learning Screening of a video on Greta Thunberg's role in climate conservation. Group Discussion on relationship between climate and environment. (Journey to the End Of the Earth)</p>	<ul style="list-style-type: none"> ➤ Understand what is “Students on Ice” programme and explore if possible the possibilities of joining it. ➤ Develop the attitude of caring for his/her immediate environment through practices like avoiding plastic, proper segregation and disposal of waste, judicious use of water and power, less use of fossil fuels, etc ➤ Understand the need of peace ➤ Understand the necessity of introspection ➤ Infers the meaning of the poem ➤ Participate in brainstorming activities and group discussions. ➤ Collect ideas of the given topic. ➤ Understand the importance of writing articles. ➤ Attempt to write articles using collected ideas. ➤ Make use of appropriate formats, expressions and vocabulary. ➤ Appreciate the role of mothers ➤ Appreciate what we have received from God ➤ Stay away from peer pressure ➤ True friends accept us the way we are 	<ul style="list-style-type: none"> ➤ Write articles ➤ Be able to communicate well ➤ Respect what mothers do for them ➤ Differentiate between good and bad pressure ➤ Choose friends wisely 	
	CH-Job Application;		<ul style="list-style-type: none"> ● Job Application Life 	<ul style="list-style-type: none"> ➤ To teach students letter writing etiquette. 	Students will-	

AUGUST	A Thing Of Beauty; The Enemy SDG 4- Quality Education; Article Writing; The Indigo SDG 10 Reduced Inequalities	23	<p>skill-Creativity</p> <ul style="list-style-type: none"> • A Thing Of Beauty • The Enemy, • Life skill-Critical Thinking • Article Writing; • The Indigo SDG 10 Reduced Inequalities <p>ACTIVITY=1 <u>Subject Enrichment</u> Use of Fly Swatter to enhance the vocabulary and make it a fun learning.</p> <p>ACTIVITY - 2 Experiential Learning- Daffodils for reference poem.</p> <p>ACTIVITY -3 PPT on Gandhiji's Non Cooperation Movement - its success and failure.</p>	<ul style="list-style-type: none"> ➤ To learn the forms of different types of letters ➤ To enable the students to know and learn about the overall condition of people of England when this poem was written ➤ To enable the students to correlate the poem with contemporary scenario ➤ To enable the students to appreciate the literary beauty of the poem ➤ To make the students realise the essential worth of human life and universal brotherhood ➤ Make them understand their duty towards the globe ➤ To understand the importance of a good leader and team work ➤ To know that it requires a lot of hard work and patience to achieve something big and great 	<ul style="list-style-type: none"> ➤ Write applications for jobs ➤ Understand the uselessness of wars ➤ Comprehend that life means ups and downs and that there is beauty even in that ➤ Learn leadership ➤ Be patient and not to look for immediate results 	
SEPTEMBER	CH-The Rattrap ; On the Face of It	19	<ul style="list-style-type: none"> • The Rattrap - Life skills-Critical Thinking Problem Solving, Collaboration and Communication • On the Face Of It <p>ACTIVITY <u>Experiential learning</u> Character Cards and Press Conference on the</p>	<ul style="list-style-type: none"> ➤ The students will appreciate the unique fairy tale quality of the story and the skill of the writer. ➤ The students will learn about the human tendency to redeem oneself from dishonest ways. ➤ They understand the 	<p>Students will-</p> <ul style="list-style-type: none"> ➤ Show concern for human values ➤ Realise the need of friends is important ➤ Realise they can bring about a change if they wish to 	TERM I EXAM Syllabus till September

			lesson The Rattrap	<p>characters and appreciate their qualities.</p> <ul style="list-style-type: none"> ➤ They will understand that the whole world is nothing but a big rattrap. The moment anyone touches the bait, the rattrap closes in on him. Then everything comes to an end ➤ They will understand that we can change a person from his evil thoughts by showing love and compassion. ➤ To enable the students to understand the meaning of words and phrases ➤ The students are able to maintain their listening skills for a reasonable length of time. ➤ Students are able to analyze their strengths and weaknesses ➤ Develop empathy and connectivity ➤ Learn trust and openness 	<ul style="list-style-type: none"> ➤ Empathise and connect 	
OCTOBER	CH-Memories Of Childhood-The Cutting Of My Hair and We Too Are Human Beings; A Roadside Stand; Aunt Jennifer's Tigers	16	<ul style="list-style-type: none"> • Memories of Childhood- The Cutting Of My Hair and We Too Are Human Beings; SDG 10- Reduced Inequalities • A Roadside Stand • Aunt Jennifer's Tigers ACTIVITY- 1 Experiential Learning: Students will go to a shop like the roadside stand in	<ul style="list-style-type: none"> ➤ To teach the importance of justice and equality ➤ Familiarize them with the universal concept of discrimination on the basis of caste, nationality, religion and gender ➤ Understand the biographical accounts of women from the marginalized societies ➤ Understand the common factors, the hardships and the indignations 	Students will- <ul style="list-style-type: none"> ➤ Discrimination is not justified ➤ Respect everyone irrespective of their social status ➤ Sympathise with others ➤ Learn to give equal respect to their spouse ➤ Be gender equal 	

			<p>their locality and talk to the owner about the plight they suffer. The interview will be documented on an A4 sized sheet.</p> <p>ACTIVITY -2 Art Integrated Learning: Read the part of the constitution referring to equality and prepare a street play on solution to discrimination and inequality. Konkani Language to be incorporated along with the English language.</p>	<p>suffered by the writers as they grew up in societies where ideals of justice, equality and liberty were words found only in textbooks</p> <ul style="list-style-type: none"> ➤ A Roadside Stand will develop sympathy towards the poor people ➤ Callousness of the city dwellers will be discussed ➤ Students will be made to appreciate the feminist aspect portrayed in the poem ➤ To learn that marriage is never one way ➤ Identify the poetic devices ➤ Teach equality between the two genders ➤ Importance of courage and confidence to be highlighted ➤ Life in a prison – problems faced by the inmates ➤ What happens when an innocent being subjected to torture and trial ➤ Presence of mind and smartness can over power others & a good planning works well 	<ul style="list-style-type: none"> ➤ Be able to plan well 	
NOVEMBER	CH-Poets and Pancakes; The Interview; Going Places	18	<p><u>Project Work</u></p> <p>Prepare a project on interviews of 5 personalities from diverse areas on their interviews.</p>	<ul style="list-style-type: none"> ➤ To notice the drastic change in the film making industry ➤ To make them aware of the technical terms involved in film making ➤ Roles and responsibilities 	<p>Students will-</p> <ul style="list-style-type: none"> ➤ Be able to interview their friends and family ➤ Realise the evils of infatuation 	•

			Write a critical analysis on your observation on the interviews selected by you.	<ul style="list-style-type: none"> shouldered by the team ➤ To learn how to organise an interview ➤ No one should dig into the personal lives of any one ➤ Process of interview ➤ To teach that infatuation and attraction during adolescence in natural ➤ Adolescents should not give in to hero worshipping ➤ Imagination and reality are two opposites, the former tends to mislead completely ➤ Adolescents should be focused and determined 	<ul style="list-style-type: none"> ➤ Sort out the problems of adolescence to a great extent ➤ Focus more on career 	
DECEMBER	CH- Writing Skills	18	<p>ACTIVITY -1</p> <p><u>Subject Enrichment:</u></p> <p>Conducting ASL for the Boards</p>	<ul style="list-style-type: none"> ➤ To make the format and rules clear once again ➤ To clear the doubts in the prose pieces – revision of the chapters ➤ To revise difficult and commonly confused parts of the poem <p>To recollect the poetic devices to avoid errors</p>		
JANUARY		19	Revision as per the need of students			PRE BOARDS
FEBRUARY			Study leave for Board Examinations			
MARCH			Board Examinations			

CLASS: XII SUBJECT: ACCOUNTANCY			NCERT ACCOUNTANCY TEXT BOOK FOR CLASS XII ACCOUNTANCY BY T. S. GREWAL			
MONTH	CHAPTER	No. of Periods	TOPIC	Learning Objectives	LEARNING OUTCOMES	UT/PT/T1
APRIL	CH-01 PARTNERSHIP- FUNDAMENTAL CH-02 PARTNERSHIP ADMISSION SDG-17 (Partnership for the goals)	24	<ul style="list-style-type: none"> ➤ Accounting for Partnership Firms- (a) Fundamental of Partnership Features, Partnership Deed- Accounting Rules. Preparation of P/L ➤ Fundamental of Partnership → Calculation of Interest on Drawings- Through different cases ➤ Fundamental of Partnership Past Adjustments and Guarantee of Profit. ➤ Accounting for Partnership Firms- (b) Admission of a Partner- Change in profit sharing ratio. Goodwill Nature, Methods of Valuation and Accounting Treatment 	<ul style="list-style-type: none"> ➤ To make them understand about Partnership Firm ➤ To teach them Provision of the Indian Partnership Act 1932. ➤ Enhance their knowledge about accounting rules of Partnership. ➤ Encourage learners try to solve numerical questions <p>Learn and prepare correct format. ACTIVITY -2 Skills: An accountancy student can settle disputes among partners.</p>	1. Students are able to know the concept of Partnership. 2. Students can classify between Fixed Capital and Fluctuating Capital Method. 3. Students can classify between Profit and Loss Account Profit and Loss Appropriation A/c. 4. They can explain accounting rules in the absence of Partnership Deed. 5. Students can calculate Interest on Drawings through all methods. 6. Students can prepare Loss Appropriation A/c and Partners Capital Accounts. 7. Students can explain the basic concepts of Partnership	
MAY	CH- PARTNERSHIP ADMISSION	14	<ul style="list-style-type: none"> • Admission of a Partner- Revaluation A/c- Revaluation of assets and reassessment of liabilities reserves accumulated profit • Admission of a Partner- Preparation of Revaluation A/c and Partners Capital Account 	1. To make them understand about Goodwill. 2. To teach them factors affecting the Goodwill. 3. Develop understanding and skill of passing journal entries of goodwill through different cases	1. Students can explain about goodwill. 2. Students will be able to explain nature and valuation of goodwill. 3. Students can calculate goodwill through different methods. 4. They can differentiate between average profit method and super profit method of goodwill. 5. Students can pass journal entries of goodwill through	01-05-2023 UT1 – Chapter 1

					<p>different cases.</p> <p>6. Students can find out hidden goodwill</p> <p>7. Students understating and skill will develop for treatment of goodwill in all cases.</p>	
JUNE	<p>CH-PARTNERSHIP ADDMISSION</p> <p>CH-COMPANY ACCOUNT</p> <p>SDG-01,10, (No poverty, Reduced inequalities)</p>	14	<ul style="list-style-type: none"> Admission of a Partner- Preparation of Revaluation A/c and Balance Sheet with Capital Adjustment Company account - Introduction, concept of shares and Co's Act. <p>ACTIVITY 1: How can a person can admit as a partner.</p> <p><u>Subject Enrichment:</u></p> <p>ACTIVITY --2</p> <p><u>Art Integrated:</u></p> <p>Skills: Increase in capitalisation Creative Thinking</p> <p>ACTIVITY-3</p> <p><u>Subject Enrichment</u></p>	<p>1.To make them understand about New and Sacrificing Ratio.</p> <p>2.Enhance their knowledge about calculation of New and Sacrificing Ratio</p> <p>3.To teach them about share and share capital.</p> <p>4.To make them understand about comparison of equity and preference shares.</p> <p>5.To teach them how investment in shares make capitalisation.</p>	<p>1. Students can explain about New and Sacrificing Ratio</p> <p>2. Students will able to explain concept of hidden goodwill.</p> <p>3. Students can pass journal entries of goodwill through different cases.</p> <p>4. They can differentiate between new and sacrificing ratio.</p> <p>5. Students can find out hidden goodwill.</p> <p>6. They can compare normal and hidden goodwill.</p> <p>7. Students understating and skill will develop for treatment of goodwill in all cases.</p>	PTM –

JULY	<p>CH- COMPANY ACCOUNT</p> <p>SDG- 8,9 (Decent work and economic growth) (Industry innovation and infrastructure)</p>	32	<ul style="list-style-type: none"> Company account- Accounting treatment of shares. Company Account- Accounting treatment of shares- At premium. Company account- Accounting treatment of shares- forfeiture Company account- Accounting treatment for shares- pro- rata allotment. <p>Group discussion-</p> <p>ACTIVITY-1: Search different leading companies capitalisation. A4 sheet. (EXPERIENTIAL LEARNING)</p>	<p>1 To make them understand about Private Placement of shares and Employees Stock Option Plan.</p> <p>2. Develop their understanding regarding share capital transactions.</p> <p>3. To teach them about forfeiture of shares.</p> <p>4. Develop the understanding of accounting treatment of forfeiture and re-issue of shares.</p>	<p>1. Students can explain about Share and Share Capital.</p> <p>2. Students will be able to explain about types of Company and Shares.</p> <p>3. They can compare between Equity Share Capital and Preference Share Capital.</p> <p>4. Students can recognise the types of company</p> <p>5. They can explain about Reserve Capital and Capital Reserve.</p>	24-07-2023 UT2 Chapter 2 and 3
AUGUST	<p>CH- COMPANY ACCOUNT</p> <p>SDG- 8 (Decent Work and Economic Growth)</p>	30	<ul style="list-style-type: none"> Preparation of cash book and presentation of share capital in balance sheet Debentures – meaning, types of debentures Issue of debentures- at par, at a discount and at a premium Issue of debentures consideration other than cash <p>ACTIVITY – 1 Which type of company can issue shares.</p>	<p>To teach them about preparation of share capital's cash book.</p> <p>Describe the presentation of share capital in the balance sheet of the company as per Companies Act 2013.</p> <p>To make them understand about debentures.</p> <p>Explain the accounting treatment of different categories of transactions related to issue of debentures</p>	<p>1. Students can explain about forfeiture of shares.</p> <p>2. Students will be able to explain when shares can be forfeited by Company.</p> <p>3. They can compare between capital reserve and reserve capital.</p> <p>4. Students can find out the amount of forfeiture and capital reserve.</p> <p>5. Students will be able to prepare numerical questions for forfeiture and re-issue of Shares.</p> <p>6. They can pass journal entries for forfeiture and re-issue of Shares..</p>	PTM

SEPTEMBER	<p>CH- Retirement and Death of a partner</p> <p>SDG-17 (Partnership for the goals)</p>	16	Effect of retirement/death of a partner: Calculation of profit-sharing ratio, treatment of goodwill, Reserve and accumulated profit/loss	<p>1.Explain the effect of retirement/death of a partner in profit sharing ratio,</p> <p>2.To make them understand about adjustment of accumulated profits/losses and reserves</p> <p>3.Enhance their knowledge about gaining ratio</p> <p>4.To teach them about payment of deceased partner.</p> <p>5.To make them understand for calculation of deceased partner's share till the time of his death</p> <p>6.To teach them preparation of deceased partner's and executor's account</p>	<p>1 . Students can calculate deceased partner's share of profit and share of goodwill till the time of his death.</p> <p>2. Students will able to prepare deceased partners' capital at the time of retirement of a partner.</p> <p>3. Students can prepare Executor's Account.</p> <p>4. They can prepare Executor's Loan Account with interest till final payment made.</p>	Term I: Ch. 1 to 6
OCTOBER	<p>CH- Retirement of a Partner and Dissolution of Partnership</p> <p>SDG-17 (Partnership for the goals)</p>	18	<p>Retirement of a Partner – Preparation of Revaluation Account</p> <p>Preparation of Partners Capital Account after retirement of a partner and Balance Sheet</p> <p>Dissolution of Partnership</p>	<p>1.To teach them situations under which a partnership firm can be dissolved understand the situations under which a partnership firm can be dissolved.</p> <p>2.Develop the understanding of preparation of realisation account and other related accounts</p>	<p>1. Students can explain about dissolution of partnership firm.</p> <p>2. Students will able to compare between dissolution of partnership and dissolution of partnership firm.</p> <p>3. Students can explain when a firm can be dissolved.</p> <p>4. They can settle books of accounts at the time of dissolution of partnership firm.</p> <p>5. They can compare Firm's Debts and Private Debts.</p> <p>6. Students will able to explain Realisation Account and they can prepare also.</p>	

NOVEMBER	CH- FINANCIAL STATEMENT ANALYSIS SDG- 8,9 (Decent work and economic growth) (Industry innovation and infrastructure)	24	<p>Financial Statement of a Company- Meaning, Nature, Users and importance of financial statement. Companies Balance Sheet.</p> <p>Accounting Ratios: Meaning, Objectives, Advantages, classification and computation of all types.</p> <p>Comparative statement Common size statement - Accounting Ratios: Calculations. Cash Flow Statement: Meaning and Objectives. Format and Preparation of numerical questions.</p> <p>Cash Flow Statement: Classification of Activities and preparation with adjustment.</p> <p>Project Work and Practical Work.</p>	<p>ART INTEGRATED: SEBI VISIT</p> <p>Capital Adjustments after retirement. Settlement of liabilities. <u>Subject Enrichment:</u></p> <p>1.Develop the understanding of major headings and sub headings 2.To teach them concept of financial analysis 3Make them understand significance of different types of ratios 4.Develop the understanding of preparation of cash flow statement</p>	<ol style="list-style-type: none"> 1. Students can explain about Cash Flow Statement. 2. They can explain about Operating, Investing and Financing Activities. 3. They can compare between Operating, Investing and Financing Activities. 4. Students can find the amount net profit before tax and extraordinary items. 5. They can find out operating profit before changes in working capital. 	Term II: Chapter 1 to 6,7,8
DECEMBER			Revision			
JANUARY			PreBoard			Complete Syllabus

CLASS: BUSINESS STUDIES SUBJECT: XII			NCERT BUSINESS STUDIES TEXTBOOK FOR CLASS XII			
MONTH	CHAPTER	No. of Periods	TOPICS	LEARNING OBJECTIVES	LEARNING OUTCOMES	UT/PT/T1
APRIL	CH-NATURE AND SIGNIFANCE OF MANAGEMENT (P.B), PLANNING SDG- 4 and 9) QUALITY EDUCATION, INDUSTRY, INNOVATION AND INFRASTRUCTURE (NEHA)	24	<ul style="list-style-type: none"> • : Principles and Functions of Management:- (1) Nature and Significance of Management→ Concept, Objectives and Importance. /Planning Concept, Importance and Limitations. (Neha : Management as a Science, as an Art and as a Profession. • : Nature and Significance of Management- Levels of • Management and Functions. Coordination- concept and importance. / Planning (Neha M.) Planning Process. Types of Plans • : Principles of Management concept and Significance. Fayol's Principles. / Planning (Neha M.) Planning - Types of Plans. <p>ACTIVITY- 1 In A4 sheet, Levels of management will be written according to hierarchy followed in school. (ART INTEGRATED) <u>Experiential Learning:</u> Skills:</p> <p>ACTIVITY -2</p>	Learning Objectives: <ul style="list-style-type: none"> ➤ To make them understand about– ➤ management ➤ To teach them about objectives and importance of management. ➤ Comparison of Effectiveness and Efficiency. ➤ Enhance their knowledge about management with their features. ➤ Encourage learners to find the uses of management ➤ Learn and research difference companies' management. 	1.Students are able to know the concept of management. 2. Students can differentiate between Effectiveness and Efficiency. 3. Students can explain importance of management. 4. They can how management is a pervasive. 5. Students can explain three dimensions of management. 6. Develop creativity among students by researching different company's management system. Students are able to know the levels of management. 7. Students can compare functions of three levels of management. 8. Students can explain what are the roles play by three levels of management helps in achieving organisational goal. 9. They can know the interrelationship between three levels of management.	

			Skills:		10. Students can explain the five functions of management.	
MAY	CH- PRINCIPLES OF MANAGEMENT (P.B), ORGANISING (NEHA) SDG- (17 and 11)	14	<ul style="list-style-type: none"> • : Principles of Management- Taylor's Scientific Management- Principles of Scientific Management/ ORGANISING (NEHA) • : Principles of Management- : Taylor's Scientific Techniques of Management : Business Environment- Impact of Government Policy changes on business- LPG/ Organizing- (Neha M.) Delegation and Decentralisation- Concept and importance. 	<ul style="list-style-type: none"> ➤ Learning Objectives: ➤ To make them understand about– ➤ management ➤ To teach them about objectives and importance of management. ➤ Enhance their knowledge about management with their features. ➤ Encourage learners the objectives of management ➤ Learn and research that management achieved their objectives. 	1. Students are able to know the principles of management. 2. Students can explain the importance of principles of management. 3. Students can explain that how management principle developed. 4. They can know about Fayol's- known as Father of Management 5. Students can explain the contribution of Fayol's in management. 6. Students can explain Principle of Division of Work and Authority and Responsibility.	26-06-2023 UT 1- Chapter 1 and 4
JUNE	PARTNERSHIP FOR GOALS, SUSTAINABLE CITIES AND COMMUNITIES	14				
JULY	CH- Business Environment (P.B), Organising (NEHA) SDG- (11 and 10) Sustainable cities and communities Reduced inequalities	32	<ul style="list-style-type: none"> • : BUSINEES ENVIRONMENT- dimensions- Economic, social, political, economical, legal etc. • : BUSINESS ENVIRONMENT-Impact of Government Policy changes on business- LPG/ Organising- Delegation and decentralisation- concept and importance. 	Learning objectives : <ul style="list-style-type: none"> ➤ To teach them concept of business environment ➤ To make them understand significance of business environment ➤ Enhance their knowledge about dimension of business environment ➤ Learn and research about LPG ➤ To teach them about 	1. Students are able to explain about Business Environment. 2. Students can explain the internal and external forces of Business Environment. 3. They can explain the natures and features of Business Environment. 4. Students can explain about importance of	

			<ul style="list-style-type: none"> • : Organising: Formal and Informa Organisation. • : Organising: Formal and Informa Organisation • • ACTIVITY : <p>Group discussion-</p> <p><u>Subject Enrichment:</u></p> <p>ACTIVITY --2</p> <p><u>Art Integrated:</u></p> <p>Skills: Creative Thinking</p> <p>ACTIVITY-3</p> <p><u>Subject Enrichment:</u></p>	demonitisation	<p>Business Environment.</p> <p>5. Students can explain how Business Environment provide threats as well as opportunities for the businessman.</p> <p>6.Students are able to explain about dimensions of business environment.</p> <p>7. Students can explain aspects of political, technological and legal environment.</p> <p>8. They can explain the impact of political, technological and legal environment on Business Enterprise.</p> <p>9. Students can explain about demonetisation.</p> <p>10. They can explain about impact of demonetisation on business enterprises.</p>	
AUGUST	<p>CH- MARKETING MANAGEMENT</p> <p>FINANCIAL MANAGEMENT</p> <p>SDG- 8 and 12 (Decent work and economic growth) (Responsible consumption and production)</p>	30	<ul style="list-style-type: none"> • : Marketing Management-concept and functions. • : Marketing Management→ Elements- 4 P's.: (a) Product Mix • : Place mix, price mix and physical distribution mix • : Advertising, personal selling, sales promotion and public relations <p>ACTIVITY - 1</p> <p><u>Subject Enrichment:</u></p>	<p>Learning objectives :</p> <ul style="list-style-type: none"> ➤ To teach them concept of marketing ➤ To make them understand marketing philosophies ➤ To make them understand concept of marketing means ➤ To teach them about 4 P's 	<p>1. Students are able to explain about objectives of financial planning.</p> <p>2. Students can explain that without financial planning company cannot be success.</p> <p>3. They can explain about importance of financial planning</p> <p>4. Students can explain that financial planning is the life blood for any company.</p> <p>5. Students are able to</p>	<p>14-08-2023</p> <p>UT-2</p> <p>Chapter 2,3 and 5</p>

					<p>explain about Fixed and Working Capital.</p> <p>6. Students can explain about Fixed assets and Current assets.</p> <p>7. They can explain about factors affecting for Fixed and Working Capital.</p> <p>8. Students can explain which fund raise for which type of assets.</p>	
SEPTEMBER	<p>CH-STAFFING, FINANCIAL MANAGEMENT</p> <p>SDG: 01(no poverty)</p>	16	<ul style="list-style-type: none"> • : Concept of staffing and its importance / Concept of financial management and objective <p>Skills:</p>	<ul style="list-style-type: none"> ➤ To make them understand the concept and significance of staffing ➤ To teach them about role of HRM ➤ To teach them the sources of recruitment ➤ Enhance their knowledge about finance 		Term I Chapter 1 to 8

<p>OCTOBER</p>	<p>CH-STAFFING, FINANCIAL MANAGEMENT</p> <p>FINANCIAL MARKET</p> <p>SDG: 08(Decent work and economic growth)</p>	<p>18</p>	<ul style="list-style-type: none"> • : Staffing concept and importance/ financial management concept and objective • : Selection process, training and development concept / Financial decisions <p>: Methods of training / Financial planning and capitalist structure , fixed and working capital</p>	<ul style="list-style-type: none"> ➤ Make them understand about the importance of training ➤ To teach them about – on the job training and off the job training ➤ To teach them about fixed and working capital ➤ To make them understand about requirements of fixed and working capital 	<ol style="list-style-type: none"> 1. Students are able to explain about Financial Market. 2. Students can explain about Money Market. 3. They can explain about instruments of Money Market. 4. Students can explain how a company can meet their short-term financial needs through money market 5. Students are able to explain about Primary Market and Secondary Market. 6. Students can explain how a company can issues security in capital market. 7. They can explain how a company can fulfil their long-term financial needs through capital market. 8. Students can explain about instruments of capital market. 9. They can compare Primary Market and Secondary Market. 10. They can also compare money market and capital market. 	
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NOVEMBER	<p>CH- CONTROLLING AND CONSUMER PROTECTION</p> <p>FINANCIAL MARKET</p> <p>SDG:10 and11(reduced inequalities) (sustainable cities and communities)</p>	12	<ul style="list-style-type: none"> • : Controlling – concept and importance / Concept of financial and money market- instruments Relationship between planning and controlling – steps / Capital market • : Consumer protection- concept and importance . • Stock exchange, Consumer Protection Act , 2019 / SEBI – Objective and functions <p>ACTIVITY1- Stock exchange (broker house visit) (Experiential Learning)</p> <p>ACTIVITY --2</p> <p><u>Art Integrated:</u></p> <p>Skills: Creative Thinking</p> <p>ACTIVITY-3</p> <p><u>Subject Enrichment:</u></p>	<ul style="list-style-type: none"> ➤ To make them understand the concept and significance of controlling ➤ To enhance their knowledge about process of controlling ➤ To teach them about money and capital market ➤ To make them understand about Consumer Protection Act, 2019 ➤ To make them understand who can file a complaint and against whom ➤ To teach them how to examine the remedies available to the consumers under Consumer Protection Act, 2019 ➤ How financial market helps in growth of an economy ➤ To teach them about training procedure in stock exchange 	<p>1. Students can explain about Controlling.</p> <p>2.They can explain how controlling help in employees performance.</p> <p>3.Students can explain importance of Consumer Protection Act, 2019.</p> <p>4.They can explain who can file a complaint and against whom.</p> <p>5. Students can explain about redressal machinery in India.</p>	TERM-II Chapter: 1 to 5,9,11
DECEMBER			Revision			
JANUARY			PreBoard			Complete Syllabus

	MONTH	CHAPTER	NO. OF PERIODS	LEARNING OBJECTIVES	LEARNING OUTCOMES	TOPIC	UT/PT/T1
	APRIL	MACRO-NATIONAL INCOME AND RELATED AGGREGATES SDG (no. 12): RESPONSIBLE CONSUMPTION AND PRODUCTION	23	<ul style="list-style-type: none"> ➤ Identify basic concepts as flow of money between household and firms. ➤ Compare between definitions and components of GNI and GDP and recognise them as measures of national income. ➤ Locate different between nominal and real GDP. ➤ Recognise various methods of calculating of national income- value added, income and expenditure method. ➤ Differentiate between national income, saving, consumption and investment. ➤ Learners will be able to measure income by adding the pre-tax income generated by the individuals and companies in the economy. ➤ Learners will also be helped in formulating policies for economic development 	<ul style="list-style-type: none"> ➤ Recognise basic concepts as flow of money between household and firms. ➤ Analyse between definitions and components of GNI and GDP and recognise them as measures of national income. ➤ Able to differentiate between nominal and real GDP. ➤ Able to solve by implementing the formulas calculating of national income- value added income and expenditure method. ➤ Comparison between national income, saving, consumption and investment. ➤ Able to calculate income by adding the pre-tax income generated by the individuals and companies in the economy. ➤ Learners will be able to formulate policies for economic development. 	<ul style="list-style-type: none"> • An introduction- scope and significance of macroeconomics, basic concepts, classification of goods, concept and component of consumption and expenditure. • Concepts and components of investment, stock and flow, four sectors of economy, circular flow of income, domestic and national concept of income, concept of national income. • Gross and Net concepts, market price and factor costs. • Aggregates related to national income, nominal and real GDP and welfare, Methods of calculating national income- value added, income and expenditure method. <p>ACTIVITY- 1 Art integrated: Present circular flow of income on A4 sheet. Skills: creative thinking</p>	
	MAY	CH- MONEY AND	08	<ul style="list-style-type: none"> ➤ Learner will be provided with an 	<ul style="list-style-type: none"> ➤ Learner will recognise the meaning of money 	<ul style="list-style-type: none"> • Meaning and evolution of money, forms of 	

		BANKING SDG (no. 8): DECENT WORK AND ECONOMIC GROWTH		introduction of money and its evolution through explanation of barter exchange. ➤ Identify various theories of money supply and money demand. ➤ Identify the working of monetary policy.	and its evolution through explanation of barter exchange. ➤ Recognise various theories of money supply and money demand. ➤ Implement the working of monetary policy.	money. • Supply of money, measurement of money supply. ACTIVITY- 2 <u>Experiential learning</u> : Visit to bank, enquire about the functioning of bank and prepare a report. Skills: critical thinking, curiosity	
	JUNE	BANKING cont...	08	➤ Identify the meaning and functions of central and commercial banks. ➤ Identify the facilities provided by commercial banks. ➤ Identify the money creation by commercial bank. ➤ Recognise the measures to control money supply.	➤ Recognise the meaning and functions of central and commercial banks. ➤ Recognise the facility provided by commercial banks. ➤ Analyse the money creation by commercial bank. ➤ Recognise the measures to control money supply.	• Introduction, types of banks, money creation by the commercial bank, and control of money supply / credit supply by central bank in India.	PTM :28/06/23
		CH- INDIAN ECONOMY ON THE EVE OF INDEPENDENCE	18	➤ Analyse the state of Indian economy on the eve of independence. ➤ Discuss the factors that led to the under development and stagnation of the Indian economy. ➤ Recognise the common goals of five year Plans.	➤ Compare the state of Indian economy on the eve of independence. ➤ Relate the factors that led to the under development and stagnation of the Indian economy. ➤ Recognise the common goals of five year Plans.	• Indian economy on the eve of independence, low level of economic development under the colonial rule, Agriculture sector, foreign trade, demographic condition, infrastructure. <u>ACTIVITY- 3</u> <u>Art integrated:</u> In A4 sheet, represent the comparison of condition of Agriculture, industrial and foreign trade during pre-independence to that of post-	

						independence. <ul style="list-style-type: none"> Skills- creative thinking, curiosity. 	
		CH- INDIAN ECONOMY (1950-1991)		➤ Indian economy. Recognise the common goals of five year Plans.	➤ Learners are able to relate the five- years plan with the developmental strategies of our country.	<ul style="list-style-type: none"> Introduction, goals of Five years Plans, Agriculture, industry and trade, trade policy, import substitution. 	
	JULY	CH- INDIAN ECONOMIC DEVELOPMENT – LIBERALISATION, PRIVATISATION AND GLOBALISATION : AN APPRAISAL	10	<ul style="list-style-type: none"> ➤ Identify the background of the reforms policies introduced in India in 1991. ➤ Identify the mechanism through which reforms were introduced. ➤ Comprehend the process of globalisation and its implications for India. 	<ul style="list-style-type: none"> ➤ Able to relate the background of the reforms policies introduced in India in 1991. ➤ Recognise the mechanism through which reforms were introduced. ➤ Relate the process of globalisation and its implications for India. 	<ul style="list-style-type: none"> Indian economy during reforms- an assessment, conclusion, introduction, background, liberalisation, privatisation and globalisation. 	UT 1 – 10.07.23 MACRO:- Ch-3 ,4 IED: Ch-1
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		CH- HUMAN CAPITAL FORMATION	12	<ul style="list-style-type: none"> ➤ Identify the concepts of human resources, human capital formation and human development. ➤ Recognise the link between investments in human capital. ➤ Identify the need for government spending on education and health. ➤ Compare the state of India's educational attainment. ➤ Identify the meaning of aggregate demand, aggregate 	<ul style="list-style-type: none"> ➤ Recognise the concepts of human resources, human capital formation and human development. ➤ Relate the link between investments in human capital. ➤ Acquire the need for government spending on education and health. ➤ Enumerate the state of India's educational attainment. ➤ Recognise the meaning and concept of aggregate demand and aggregate supply. 	<ul style="list-style-type: none"> Introduction of human capital, sources of human capital, human capital and human development, state of human capital formation in India, Education sector in India, future prospect and conclusion. ACTIVITY:- Concept of aggregate demand, concept of aggregate supply, consumption and saving function, relation between them. 	
		CH- DETERMINATION OF INCOME AND EMPLOYMENT	22				

				<p>supply and effective demand of economy.</p> <ul style="list-style-type: none"> ➤ Recognise the components of AD. ➤ Determine the equilibrium level of income and employment. ➤ Identify the concepts and situation of excess and deficient demand. ➤ Recognise the methods to correct excess and deficient demand. 	<ul style="list-style-type: none"> ➤ Able to analyse the components of AD. ➤ Able to describe the equilibrium level of income and employment. ➤ Recognise and relate the situation of excess and deficient demand. ➤ Able to draw the way to rectify the situations. 	<ul style="list-style-type: none"> • Short run equilibrium output-concept of short run, equilibrium output (GDP), Determination of equilibrium output, AS-AD approach and S-I approach. 	
	AUGUST	CH- PROBLEM OF DEFICIENT DEMAND AND EXCESS DEMAND	08	<ul style="list-style-type: none"> ➤ Identify the concept and situation of excess and deficient demand. ➤ Compare the differences between excess and deficient demand. ➤ Recognise the methods to correct excess demand and deficient demand. 	<ul style="list-style-type: none"> ➤ Recognise the concept and situation of excess and deficient demand. ➤ Evaluate the differences between excess and deficient demand. ➤ Able to solve through methods to correct excess demand and deficient demand. 	<ul style="list-style-type: none"> • Some essential concept, problems of deficient demand problem of excess demand, measures to correct excess and deficient demand. 	UT-2 28.08.23 MACRO:- Ch-5,6 IED:- Ch- 2,3 PTM: 26/08/23
		CH- GOVERNMENT BUDGET	17	<ul style="list-style-type: none"> ➤ Identify the various way o reallocations of resources. ➤ Identify the tax concessions and subsidies. ➤ Reducing inequalities of income and wealth. ➤ Compare the difference between revenue and capital receipts. ➤ Recognise the revenue deficits, 	<ul style="list-style-type: none"> ➤ Recognise the various way o reallocations of resources. ➤ Able to compute the tax concessions and subsidies. ➤ Reducing inequalities of income and wealth. ➤ Analyse the difference between revenue and capital receipts. 	<ul style="list-style-type: none"> • Concept of government budget, objectives, structure/ components of budget, budget receipts- revenue and capital receipts, budget expenditure- revenue and capital expenditure, budget deficit. 	

				fiscal deficits and primary deficit.			
		CH- BALANCE OF PAYMENTS	14	<ul style="list-style-type: none"> ➤ Identify the levels of international economic activity. ➤ Examine the economic relationships underlying the two basic sub-components of BOP. 	<ul style="list-style-type: none"> ➤ Recognise the levels of international economic activity. ➤ Evaluate the economic relationships underlying the two basic sub-components of BOP. 	<ul style="list-style-type: none"> • Introduction and meaning of balance of payment (BPO), components/ structure of BOP account: current, capital and official reserve account, equilibrium and disequilibrium in BOP- BOP deficit. <p>ACTIVITY 5 : ART INTEGRATED: Prepare a database of your own household expenditure and income received and compute the credit, debit side.</p> <ul style="list-style-type: none"> • Skills: creative skills, curiosity 	
	SEPTEMBER		14	<ul style="list-style-type: none"> ➤ Learners will recall the knowledge gain by revising the chapter's taught. 	Learners were able to answer the questions given to them.	<ul style="list-style-type: none"> • Revision of the CH- 3, 4, 5, 6 (MACRO) and CH- 1, 2, 	TERM I EXAM Macro:- Ch-1 to 9 IED:- Ch- 1 to 6
	OCTOBER	CH- RURAL DEVELOPMENT	07	<ul style="list-style-type: none"> ➤ Recognise the state of rural areas in our country. ➤ Identify the sectors need to be developed for rural development. ➤ To develop the farm, home, public service and village community. 	<ul style="list-style-type: none"> ➤ Recognise the state of rural areas in our country. ➤ Compare the sectors need to be developed for rural development. ➤ Compute the farm, home, public service and village community. 	<ul style="list-style-type: none"> • Introduction – rural development, credit and marketing in rural areas, agriculture market system, diversification into productive activities, organic system. • Puja Vacation. • 	

		CH-EMPLOYMENT SDG (no. 10): REDUCED INEQUALITIES	07	<ul style="list-style-type: none"> ➤ Identify few basic concepts relating to employment such as economic activity. ➤ Identify the nature of participants of men and women in various economic activities. 	<ul style="list-style-type: none"> ➤ Recognise few basic concepts relating to employment such as economic activity. ➤ Able to know the nature of participants of men and women in various economic activities. 	<ul style="list-style-type: none"> • Employment growth, in formalisation and other related issues, worker and employment, participation of people in employment, self employed and hired worker, employment in firm, factories and offices, growth and change in structure of employment, in formalisation of Indian work force, unemployment government generations, conclusion. <p>ACTIVITY 6: ART INTEGRATED: Poster making in favour of gender equality in employment. Skills: creative skills, innovative skills.</p>	
	NOVEMBER	CH-ENVIRONMENT AND SUSTAINABLE DEVELOPMENT SDG (no. 11) – SUSTAINABLE CITIES AND COMMUNITY	10	<ul style="list-style-type: none"> ➤ Identify the techniques to restrain the use of natural resources to ensure their availability for future generations. ➤ Identify the importance of protecting the environment from getting exploited. 	<ul style="list-style-type: none"> ➤ Recognise the techniques to restrain the use of natural resources to ensure their availability for future generations. ➤ Recognise the importance of protecting the environment from getting exploited. 	<ul style="list-style-type: none"> • Introduction, environment definition and functions, state of India's environment, sustainable development, strategies for sustainable development, conclusion. <p>ACTIVITY : EXPERIENTIAL LEARNING: Stay one day without electricity or any electronic gadget and experience the</p>	Term 2:- Macro: Ch- 1 to 12 IED:- Ch1 to 10

						life naturally.	
		CH- DEVELOPMENT EXPERIENCES OF INDIA: A COMPARISON WITH NEIGHBOURS	12	<ul style="list-style-type: none"> ➤ Able to figure out the trends in various economic and human development indicators of India and its neighbours. ➤ Assess the strategies of their governance of the countries. 	<ul style="list-style-type: none"> ➤ Able to judge the trends in various economic and human development indicators of India and its neighbours. ➤ Able to assess and judge the strategies of their governance of the countries. 	<ul style="list-style-type: none"> • Introduction, developmental path- a snap shot view, demographic indicator, gross domestic product and sectors, indicators of human development, development strategies- An Appraisal, Conclusion. • Revision of unit- 1,2 (Macro) • Revision of unit- 3, 4, 5(Macro) 	
	DECEMBER		20	<ul style="list-style-type: none"> ➤ Able to identify the formula used for solving the questions. ➤ Able to identify the way of framing the theoretical answer. 	<ul style="list-style-type: none"> ➤ Able to solve the questions using the appropriate formula. ➤ Able to write the theoretical answer. 	<ul style="list-style-type: none"> • Revision of unit- 6,7(IED) • Revision of unit- 7, 8 (IED) • Revision of unit- 6, 7 (Macro). 	PTM :09/12/23

CLASS: XII
SUBJECT: APPLIED MATHEMATICS (241)
BOOKS : APPLIED MATHEMATICS- RD SHARMA

MONTH	CHAPTER	No. of Period	TOPICS	LEARNING OBJECTIVES	LEARNING OUTCOME : Students will be able to	UT/PT/T1

APRIL	ALGEBRA Matrices &Determinants	20	<p>Types of matrices</p> <p>Equality of matrices</p> <p>Addition of matrices</p> <p>Operations of matrices</p> <p>Singular matrix</p> <p>Determinants</p> <p>Inverse of a matrix</p> <p>Simultaneous linear equations</p>	<ul style="list-style-type: none"> The entries, rows and columns of matrices Present a set of data in a matrix form Examples of transpose of matrix A square matrix as a sum of symmetric and skew symmetric matrix Observe that diagonal elements of skew symmetric matrices are always zero Addition and Subtraction of matrices Multiplication of matrices (It can be shown to the students that Matrix multiplication is similar to multiplication of two polynomials) <ul style="list-style-type: none"> Multiplication of a matrix with a real number Singular matrix, Non-singular matrix $AB = A B$ <ul style="list-style-type: none"> Simple problems to find determinant value Inverse of a matrix using: cofactors . <p>Solution of system of simultaneous equations upto three variables only (non-homogeneous equations)</p> <p>Critical Thinking</p> <p>Practical-Use of Spreadsheet to solve daily life problems using matrix multiplication.</p>	<ul style="list-style-type: none"> Define matrix Identify different kinds of matrices Find the size order of matrices Determine equality of two matrices Write transpose of given matrix Define symmetric and skew symmetric matrix Perform operations like addition & subtraction on matrices of same order Perform multiplication of two matrices of appropriate order Perform multiplication of a scalar with matrix Find determinant of a square matrix Use elementary properties of determinants. <p>Solve the system of simultaneous equations using</p> <ul style="list-style-type: none"> Cramer's Rule Inverse of coefficient matrix Formulate real life problems into a system of simultaneous equations 	UT 1 1.Matrices and Determinants
	CALCULAS Higher Order Derivatives	05	<p>Second order derivatives</p> <p>Parametric and implicit functions and their derivatives</p>	<p>Simple problems based on higher order derivatives</p> <ul style="list-style-type: none"> Differentiation of parametric functions and implicit functions (upto 2nd order) 	<p>Determine second and higher order derivatives</p> <p>Understand differentiation of parametric functions and implicit functions</p>	

MAY	Application of Derivatives	15	<p>Tangents and normal</p> <p>Marginal Cost and Marginal Revenue using derivatives</p>	<p>Gradient / Slope of tangent and normal to the curve</p> <ul style="list-style-type: none"> The equation of the tangent and normal to the curve (simple problems only) <p>Examples related to marginal cost, marginal revenue, etc.</p>	<p>Understand the gradient of tangent and normal to a curve at a given point</p> <ul style="list-style-type: none"> Write the equation of tangents and normal to a curve at a given point. Determine the rate of change of various quantities <p>Define marginal cost and marginal revenue</p> <ul style="list-style-type: none"> Find marginal cost and marginal revenue. Determine whether a function is increasing or decreasing <p>Determine the conditions for a function to be increasing or decreasing</p> <ul style="list-style-type: none"> Determine critical points of the function Find the point(s) of local maxima and local minima and corresponding local maximum and local minimum values Find the absolute maximum and absolute minimum value of a function <ul style="list-style-type: none"> Understand the concept of Random Variables and its Probability Distributions <p>Find probability distribution of discrete random variable</p> <p>Apply arithmetic mean of frequency distribution to find the expected value of a random variable</p> <p>Calculate the Variance and S.D. of a random variable.</p>	
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JUNE	SDG 4 Quality education	5	Increasing /Decreasing Functions	Simple problems related to increasing and decreasing behaviour of a function in the given interval	Identify the Bernoulli Trials and apply Binomial Distribution ● Evaluate Mean, Variance and S.D of a binomial distribution	
			Maxima and Minima	A point $x= c$ is called the critical point of f iff is defined at c and $f '(c) =0$ or f is not differentiable at c □ To find local maxima and local minima by: i)First Derivative Test ii) Second Derivative Test □ Contextualized real life problems Group Discussion- How to find critical points of the functions.	Understand the Conditions of Poisson Distribution ● Evaluate the Mean and Variance of Poisson distribution ● Understand normal distribution is a Continuous distribution ● Evaluate value of Standard normal variate ● Area relationship between Mean and Standard Deviation	
	PROBABILITY DISTRIBUTION	25	Probability Distribution Mathematical Expectation	Definition and example of discrete and continuous random variable and their distribution The expected value of discrete random variable as summation of product of discrete random variable by the probability of its occurrence Questions based on variance and standard deviation.		
			Variance			
			Binomial Distribution	• Characteristics of the binomial distribution • Binomial formula: $P(r) = {}^nC_r p^r q^{n-r}$ Where n = number of trials P = probability of success , q = probability of failure		
			Poisson Distribution	Characteristics of Poisson Probability distribution • Poisson formula: $P(x) = \frac{\lambda^x}{x!} \cdot e^{-\lambda}$		
			Normal Distribution	Mean = Variance = λ Characteristics of a normal probability		

	SDG 10 Reduced inequalities			distribution PROJECT -Prepare a questionnaire to collect information about money spent by your friends in a month on activities like travelling, movies , recharging of the mobiles, etc. and draw interesting conclusions		
JULY	NUMBERS, QUANTIFICATION	15	Modulo Arithmetic Congruence Modulo Alligation and Mixture	<ul style="list-style-type: none"> • Definition and meaning <ul style="list-style-type: none"> • Introduction to modulo operator • Modular addition and subtraction <ul style="list-style-type: none"> • Definition and meaning • Solution using congruence modulo Equivalence class <ul style="list-style-type: none"> • Meaning and Application of rule of alligation Mean price of a mixture	<ul style="list-style-type: none"> • Define modulus of an integer Apply arithmetic operations using modular arithmetic rules	
			Boats and Streams (upstream and downstream) Pipes and Cisterns	Problems based on speed of stream and the speed of boat in still water <ul style="list-style-type: none"> • Calculation of the portion of the tank filled or drained by the pipe(s) in unit time 	<ul style="list-style-type: none"> • Understand the rule of alligation to produce a mixture at a given price <ul style="list-style-type: none"> • Determine the mean price of a mixture , Apply rule of allegation Distinguish between upstream and downstream	
			Races and Games	Calculation of the time taken/ distance covered / speed of each player	Determine the time taken by two or more pipes to fill or empty the tank	
			Numerical Inequalities	<ul style="list-style-type: none"> • Comparison between two statements/situations which can be compared numerically Application of the techniques of numerical solution <ul style="list-style-type: none"> • PROJECT-Prime numbers and divisibility rules. 	Compare the performance of two players w.r.t. time, distance <ul style="list-style-type: none"> • Describe the basic concepts of numerical inequalities Understand and write numerical inequalities	
	LINEAR PROGRAMMING	10	Mathematical formulation of Linear	<ul style="list-style-type: none"> • Advantages and disadvantages of Linear Method Need for framing linear programming	Familiarize with terms related to Linear Programming Problem Formulate Linear Programming	

	<p>SDG 9 Industry, Innovation and Infrastructure Quality education</p> <p>INDEX NUMBERS AND TIME BASED DATA</p>	5	<p>Programming Problem</p> <p>Different types of Linear Programming Problems.</p> <p>Graphical method of solution for problems in two variables</p> <p>Uses of index numbers. Types of index numbers</p>	<p>problem</p> <ul style="list-style-type: none"> ● Definition of Decision Variable, Constraints, Objective function, Optimization and Non Negative conditions <p>LIFE SKILL-Case Study based questions to be practised as assignment</p> <p>Use of t-table</p> <ul style="list-style-type: none"> ● Secular trend ● Seasonal variation ● Cyclical variation <p>Irregular variation</p> <ul style="list-style-type: none"> ● Fitting a straight line trend and estimating the value ● The tendency of the variable to increase or decrease over a long period of time ● Moving Average method <p>Method of Least Squares</p>	<p>Problem</p> <ul style="list-style-type: none"> ● Identify and formulate different types of LPP <p>Draw the Graph for a system of linear inequalities involving two variables and to find its solution graphically. Set the problem in terms of decision variables, identify the objective function, identify the set of problem constraints, express the problem in terms of inequations Formulate various types of LPP's like Manufacturing Problem, Diet Problem, Transportation Problem, etc. Corner Point Method for the Optimal solution of LPP</p> <ul style="list-style-type: none"> ● Iso-cost/ Iso-profit Method <ul style="list-style-type: none"> ● Distinguish between different components of time series ● Solve practical problems based on statistical data and Interpret the result ● Understand the long term tendency <p>Demonstrate the techniques of finding trend by different methods</p>	
AUGUST	FINANCIAL MATHEMATICS	20	<p>Perpetuity, Sinking Funds</p> <p>Calculation of EMI</p>	<p>Meaning of Perpetuity and Sinking Fund</p> <ul style="list-style-type: none"> • Real life examples of sinking fund • Advantages of Sinking Fund <p>Sinking Fund vs. Savings account</p> <p>Methods to calculate EMI:</p> <p>(i) Flat-Rate Method</p> <p>(ii) Reducing balance Method</p>	<p>Explain the concept of perpetuity and sinking fund</p> <ul style="list-style-type: none"> ● Calculate perpetuity <p>Differentiate between sinking fund and saving account</p> <ul style="list-style-type: none"> • Explain the concept of EMI <p>Calculate EMI using various methods</p>	<p>TERM I EXAM</p> <p>1. Numbers, Quantification and Numerical Applications</p> <p>2. Matrices & Determinants</p>

	<p>SDG 9 Industry, Innovation and Infrastructure</p>		<p>Calculation of Returns, Nominal Rate of Return Compound Annual Growth Rate</p> <p>Linear method of Depreciation</p>	<p>Method <input type="checkbox"/> Real life examples to calculate EMI of various types of loans, purchase of assets, etc.</p> <ul style="list-style-type: none"> • Formula for calculation of Rate of Return, Nominal Rate of Return Formula for Compound Annual Growth Rate <p>Meaning and formula for Linear Method of Depreciation</p> <ul style="list-style-type: none"> • Advantages and disadvantages of Linear Method. 	<ul style="list-style-type: none"> • Explain the concept of rate of return and nominal rate of return • Calculate rate of return and nominal rate of return • Understand the concept of Compound Annual Growth Rate • Differentiate between Compound Annual Growth Rate and Annual Growth Rate <p>Calculate Compound Annual Growth Rate</p> <ul style="list-style-type: none"> • Define the concept of linear method of Depreciation <p>Interpret cost, residual value and useful life of an asset from the given information</p>	<p>3.Probability Distribution</p> <p>4. AOD</p> <p>5.LPP</p> <p>6. Index numbers and time based data</p> <p>7.Financial maths</p>
SEPTEMBER	<p>CALCULUS Integration</p> <p>SDG 8 Decent work& Economic growth</p> <p>Definite Integrals as area under the curve</p>	15	<p>Primitive or antiderivative</p> <p>Methods of integration Fundamental theorem of integral calculus. Area as a definite integral.</p>	<ul style="list-style-type: none"> • Integration as a reverse process of differentiation <p>Vocabulary and Notations related to Integration</p> <p>Simple integrals based on each method (nontrigonometric function) Evaluation of definite integrals using properties</p> <p>PRACTICAL Using spreadsheet, collect the data on weather, price, inflation, and pollution analyse the data the data and make</p>	<p>Understand and determine indefinite integrals of simple functions as anti-derivative</p> <p>Evaluate indefinite integrals of simple algebraic functions by method of:</p> <ol style="list-style-type: none"> i) substitution ii) partial fraction iii) by parts <ul style="list-style-type: none"> • Define definite integral as area under the curve • Understand fundamental theorem of Integral calculus and apply it to evaluate the definite integral <p>Apply properties of definite integrals to</p>	

				meaningful inferences.	solve the problems	
OCTOBER	<p>Differential Equations</p> <p>Application of Differential Equations</p> <p>SDG 11 Sustainable cities and Communities</p>	15	<p>Application of Integration</p> <p>Determining Maximum profit.</p> <p>Solution of differential equations.</p> <p>Application of differential equations</p>	<p>Problems based on finding</p> <ul style="list-style-type: none"> • Total cost when Marginal Cost is given • Total Revenue when Marginal Revenue is given • Equilibrium price and equilibrium quantity and hence consumer and producer surplus • Definition, order, degree and examples <p>Formation of differential equation by eliminating arbitrary constants Solution of simple differential equations (direct integration only)</p> <p>Growth and Decay Model in Biological sciences, Economics and business, etc. PRACTICAL- Collect data from newspapers on traffic, sports, activities and market trends and use excel to study future trends.</p>	<ul style="list-style-type: none"> • Identify the region representing C.S. and P.S. graphically • Apply the definite integral to find consumer surplus-producer surplus • Find the order and degree of a differential equation • Formulate differential equation • Verify the solution of differential equation Solve simple differential equation • Define Growth and Decay Model Apply the differential equations to solve Growth and Decay Models 	
NOVEMBER	INFERENTIAL STATISTIC	10	<p>Population and Sample</p> <p>Parameter and statistics</p>	<ul style="list-style-type: none"> • Population data from census, economic surveys and other contexts from practical life • Examples of drawing more than one sample set from the same population • Examples of representative and non-representative sample • Unbiased and biased sampling • Problems based on random sampling using simple random sampling and systematic random sampling <p>Conceptual understanding of Parameter and</p>	<ul style="list-style-type: none"> • Define Population and Sample • Differentiate between population and sample • Differentiate between a representative and non-representative sample • Define Parameter with reference to Population • Define Statistics with reference to Sample • Explain the relation between Parameter and Statistic 	<p>SECOND TERM</p> <ol style="list-style-type: none"> 1. Indefinite Integration 2. Definite Integration 3. Application of Integration 4. Differential Equations 5. Inferential statistics 6. * Portion of Term 1 also

			<p>t-Test (one sample t-test and two independent group)</p> <p>Application of t- distribution</p>	<p>Statistics</p> <ul style="list-style-type: none"> • Examples of Parameter and Statistic limited to Mean and Standard deviation only • Examples to highlight limitations of generalizing results from sample to population • Only conceptual understanding of Statistical Significance/Statistical Inferences • Only conceptual understanding of Sampling Distribution through simulation and graphs <p>Examples and non-examples of Null and Alternate hypothesis (only nondirectional alternate hypothesis)</p> <p>PRACTICAL</p> <p>Using spreadsheet, stock market data sheet on excel.</p>	<ul style="list-style-type: none"> ● Explain the limitation of Statistic to generalize the estimation for population ● State Central Limit Theorem ● Define a hypothesis ● Differentiate between Null and Alternate hypothesis ● Define and calculate degree of freedom ● Test Null hypothesis and make inferences using t-test statistics ● Framing of Null and Alternate hypothesis ● Testing a Null Hypothesis to make Statistical Inferences for small sample. 	will be included.

CLASS: XII SUBJECT: INFORMATICS PRACTICES (065)			BOOKS : INFORMATICS PRACTICES by NCERT INFORMATICS PRACTICES by Sumita Arora			
MONTH	CHAPTER/TOPIC	No. of Periods	TOPICS	LEARNING OBJECTIVES	LEARNING OUTCOMES	UT/PT/T1
APRIL	Introduction to Python libraries- Pandas, Matplotlib. SDG(4)	5 (TH) 5 (PR)	<p>1. Data structures in Pandas - Series and data frames.</p> <p>2. Series: Creation of series from List. Dictionary, scalar value; mathematical operations; series attributes, head and tail functions;</p> <p>3. Selection, indexing and slicing of Series elements</p> <p>4. Attributes of Series: Index, Columns, Size, Shape, dtype, Values etc.</p> <p><u>Suggested Practical:</u></p> <p>1. Create a panda's series from a dictionary of values and a ndarray</p> <p>2. Given a Series, print all the elements that are above the 75th percentile.</p> <p>ACTIVITY- 1 _Identify various Functions, keywords, Libraries, Packages, and Modules etc.</p> <p>ACTIVITY -2 Practical based on Series attributes.</p>	<p>1. Explain, Use and implementation of Python Pandas</p> <p>2. Extracting, slicing data from Series</p> <p>3. Implementation of attributes of Series.</p> <p>Students learn about importing the Pandas Library and creation of Series using different data types.</p>	<p>Students will be able to Create Series and apply various operations.</p> <p>Students able to write programs by importing the Pandas Library and also able to create Series using different data types.</p>	
MAY	DataFrames in Pandas	08 (TH) 08 (PR)	<p>1. Creation of data frames from dictionary of series, list of dictionaries, text/CSV files, display, and iteration.</p> <p>2. Operations on rows and columns: add (insert /append) , select, delete (drop column and row)</p>	<p>1. Explain, Use and implementation of Python Pandas.</p> <p>2. Extracting, slicing data from DataFrame.</p> <p>3. Implementation of attributes of DataFrame.</p>	Students will be able to Create Data frames and apply various operations.	

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MONTH	CHAPTER/TOPIC	No. of Periods	TOPICS	LEARNING OBJECTIVES	LEARNING OUTCOMES	UT/PT/T1
			<p><u>Suggested Practical:</u></p> <ol style="list-style-type: none"> 1. Create a Data Frame quarterly sales where each row contains the item category, item name, and expenditure. 2. Group the rows by the category and print the total expenditure per category. 3. Create a data frame for examination result and display row labels, column labels data types of each column and the dimensions 5. Importing and exporting data between pandas and CSV file. <p><u>Activity:</u></p> <p>Discussion and assignment of Project topics for CBSE Practical Exams.</p>	<p>Students learn about creation of DataFrame using different data types.</p> <p>Studenta also learn about importing data from and to csv files for various operation.</p>	<p>Students able to write programs to create DataFrame using different data types.</p> <p>Studenta also know about importing data from and to csv files for various operation.</p>	
JUNE	DataFrames in Pandas Continued...	07 (TH) 07 (PR)	<ol style="list-style-type: none"> 1. Rename, Head and Tail functions, indexing using labels, Boolean indexing. <p>Attributes of Dataframe: Index, Columns, Size, Shape, dtype, Values etc.</p> <p><u>Suggested Practical:</u></p> <ol style="list-style-type: none"> 1. Filter out rows based on different criteria such as duplicate rows. 2. Practical based on DataFrame attributes. <p>ACTIVITY-1</p> <p>Writing programs for the implementing DataFrame functions.</p>	<ol style="list-style-type: none"> 1. Explain and use of functions in DataFrame. <p>Students learn about extracting the rows and cols based on conditions from DataFrame.</p> <p>Students also learn about different attributes of DataFrame.</p>	<p>Students will be able to apply various operation on Series and DataFrame.</p> <p>Students able to extract the rows and cols based on conditions from DataFrame.</p> <p>Students also able to use different attributes of DataFrame.</p>	<p>UT-1 19-06-2023 Series and DataFrame basics.</p>

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MONTH	CHAPTER/TOPIC	No. of Periods	TOPICS	LEARNING OBJECTIVES	LEARNING OUTCOMES	UT/PT/T1
			2. Data protection, intellectual property rights (IPR), plagiarism, licensing and copyright, 3. Free and open source software (FOSS), LAMP, WAMP, Firewall, OSS, Browsers. 4. E-waste: hazards and management. Awareness about health concerns related to the usage of technology. ACTIVITY - 1 PPT for E-waste: hazards and management.	2. Discussion of FOSS, LAMP, WAMP etc 3. E-waste hazards and their management	technology on society including gender and disability issues.	UT-2 07-08-2023 Data Visualizati on
SEPTEMBER	Revision Database Query using SQL	Doubts Clearance on important topics specially related with program implementation Revision of topics covered in Class XI		TERM I EXAM Chapters: Python Pandas Series and DataFrame, Data Visualization and Societal Impacts		
OCTOBER	Database Query using SQL	20 (TH) 17 (PR)	1. Math functions: POWER (), ROUND (), MOD (). 3. Aggregate Functions: MAX (), MIN (), AVG (), SUM (), COUNT (); using COUNT (*). 4. Text functions: UCASE ()/UPPER (), LCASE ()/LOWER (), MID ()/SUBSTRING ()/SUBSTR (), LENGTH (), LEFT (), RIGHT (), INSTR (), LTRIM (), RTRIM (), TRIM (). 5. Date Functions: NOW (), DATE (), MONTH (), MONTHNAME (), YEAR (), DAY (), DAYNAME (). Querying and manipulating data using Group by, Having, Order by. Working with Two Tables using equi-join.	1. Explain and use of MySQL built-in functions 2. Implementation of functions in the table data	Students will be able to Design SQL queries using Aggregate functions. Import/Export data between SQL database and Pandas.	

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MONTH	CHAPTER/TOPIC	No. of Periods	TOPICS	LEARNING OBJECTIVES	LEARNING OUTCOMES	UT/PT/T1
			<p><u>Suggested Practical:</u></p> <p>Create a student table with the student id, name, and marks as attributes where the student id is the primary key.</p> <p>2. Insert the details of a new student in the above table.</p> <p>3. Delete the details of a student in the above table.</p> <p>4. Use the select command to get the details of the students with marks more than 80.</p> <p>5. Find the min, max, sum, and average of the marks in a student marks table.</p> <p>6. Find the total number of customers from each country in the table (customer ID, customer Name, country) using group by.</p> <p>7. Write a SQL query to order the (student ID, marks) table in descending order of the marks.</p> <p>ACTIVITY-1 Students will write queries and practice use of different SQL statements</p> <p>ACTIVITY-2 Students will write queries and find output based on Case studies given using MySQL using built-in functions</p>			
NOVEMBER	Introduction to Computer Networks	12 (TH)	1. Introduction to networks, Types of network: LAN, MAN, WAN. Network Devices: modem, hub, switch, repeater, router, gateway Network Topologies:	1. Explain and demonstration of network based device and their uses 2. Explanation of website,	Students will be able to Learn terminology related to networking and internet. Identify internet security issues and configure browser	TERM-II Database using SQL and Computer

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MONTH	CHAPTER/TOPIC	No. of Periods	TOPICS	LEARNING OBJECTIVES	LEARNING OUTCOMES	UT/PT/T1
			Star, Bus, Tree, Mesh. 2. Introduction to Internet , URL, WWW, and its applications- Web, email, Chat, VoIP. 3. Website: Introduction, difference between a website and webpage, static vs dynamic web page, web server and hosting of a website. 4. Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies. ACTIVITY - 1 Students will be asked to prepare List of device, Network and Topologies used in School Campus. Project and Practical Notebook submission for AISSCE'2024.	webpage, webhosting, server, types of pages	settings.	Network

SURENDRANATH CENTERARY SCHOOL, RANCHI

ANNUAL, PLAN (2023,2024)

Class: XII SUBJECT physical Education (048)			BOOKS V.D. Sharma Sharwati Prakasan LAB MANUAL (Blue Print)			
Month	Chapters	No. of Periods	Learning objective	Learning outcome	Topics	UT/ PT/ T-1
April	Planingins in Sports SDG-8 Decent Work and orgnise idea	20	1. To make them understand about various committees and their Responsibilities 2. To make them understand about Tournaments- Knock-out, league or Round Robin and combination. 3. To make them understand about Procedure to Draw Fixtures: 4. To make them understand about intramural and Extramural: objectives and their Significance.	1. Students will be able to demonstrate the ability to apply on under stand of ethics of the professional arena. 2. Students will be able to demonstrate ability to think critically, to creatively problem solve and utilize analysis 3. Students will be able to demonstrate the ability to articulate the global scope of sport and recognize diversity issues in sport.	Week -1 Various committees and their Responsibilities Week-2 Advantages of knock out tournaments. Knock out, Combination, League cum knock- out Tournaments. Week-3 Procedure to draw Fixtures: Knock out, Week – 4 Intramural and Extramural, Meaning, <u>objective and their significance</u> Activity -1 Experiential Learning Skills	Portion of 1st UT, Chapter 1. 2 & 3

					to teach students how to conduct tournament.	
May	Sports and Nutrition	10	<p>1. To make them understand about balanced diet and nutrition: Macro and Micro Nutrients.</p> <p>2. To make them understand about Nutritive and Non-nutritive components of Diet.</p>	<p>1. Students will be able to interpret and apply nutrition concepts to evaluate and improve the nutritional health of communities.</p> <p>2. Students will be able to improve the nutritional health of individual with medical conditions.</p>	<p>Week- Balance diet and Nutrition Macoro and Micro Nutrition.</p> <p>Week-2 Nutritive and Non- Nutritive components of diet.</p>	
Jun	Sports and Nutrition	10	<p>3. To make them understand about Eating for Weight control-a Healthy weight, the pitfalls of dieting</p>	<p>3. Students will be able to apply management principles to evaluate human physical and fiscal resources in organization.</p>	<p>Week-3 Eating to control Healthy body weight the pitfalls of dieting.</p> <p>Week4 Methods to control Healthy body weight the pitfalls of dieting.</p> <p>Activity -1 Subject Enrichment: Activity-2 Art Integrated Skills Creative</p>	

					Thinking.	
July	Yoga and Lifestyle SDG-3 Good Health and well being	22	<p>1. To make them understand about Obesity: Procedure, Benefits and Contraindication for Vajrasana, Pada Hastasana, Urdhva Hastasana, Trikonasana, Ardhamatseyendrasana.</p> <p>2. To make them understand about Diabets: Procedure, Benefits and Contraindications for Bhujangasana, Pachimottanasana, Pawanmuktasana, Ardhamatseyendrasana.</p> <p>3. To make them understand about Asthma: Procedure, Benefits and Contraindications for Sukhasana, Chakrasana, Gomukhasana, Parvatasana, Bhujangasana, Paschimottanasana, Matsyasana.</p>	<p>1. Students will be able to instestate Ayareda to the existin health cure system for promotion prevention and control of non communicable disease.</p> <p>2. Students will be able to reduse during dependency in chromic cases thrugh Ayurveda yoga Practices and lifestyle changes.</p> <p>3. To carry out capacity building of human resources.</p>	<p>Week -1</p> <p>Asanas as preventive measures Obesity, Procedure, Benefits and contraindications for Vajrasana, Pada Hastasana, Urdhva Hastasana, Trikonasana.</p> <p>Week-2</p> <p>Diabrtes Bhujangasana, Paschimoftanasana, Pawanmuuktasana, Ardhamatseyendrasana.</p> <p>Week-3</p> <p>Asthma, For Sukhasana, Chakrasana, Gomukhasan, Parvatasana, Ghujangasana. Paschimottanasana,</p> <p>Week – 4</p> <p>Hupertension, for tadasana, Vajrasana, Paeanmuktasana, Ardhachakrasana, Bhujagansan.</p> <p>Activity -1</p> <p>Subject Enrichment</p>	

					<p>* * * *</p> <p>Group Discussion</p> <p>Discussion with students topic wise.</p>	
Aug	Physical Education and Sports for (CWSN)	20	<p>1. To make them understand about Concept of Disability and Disorder.</p> <p>2. To make them understand about Types of disability, their Causes and Nature (Cognitive Disability, Intellectual Disability,</p>	<p>1. Knowledge about the role of Paralympics for promoting adaptive sports.</p> <p>2. Modified of individualized programme that Ceters to the special needs of disabled students.</p>	<p>Week -1</p> <p>Types of Disability. Their Causes and Nature, Disability, Intellectual disability.</p> <p>Week-2</p> <p>Types of disorder, their causes and nature (ADHD, SPD, ASD, ODD, OCD)</p> <p>Week-3</p> <p>Advantages of physical activities for children with special needs.</p> <p>Week-4</p> <p>Strategies to make physical activities accessible for children.</p> <p>Activity -1</p> <p>*</p>	Portion of 2nd UT Chapter 4, 5, 6 & 7

					<p>*</p> <p>*</p> <p>*</p>	
Sep	Children and Women in Sports	14	<p>1. To make them understand about Motor Development and Factors Affecting it.</p> <p>2. To make them understand about Exercise Guidelines at Different Stages of Growth and Development.</p> <p>3. Common Postural Deformities- Knock-Knees, Flatfoot, Round shoulders, Lordosis, Kyphosis, Bow Legs and Scoliosis</p>	<p>1. Gain knowledge in general metabolic principles, primarily fuel sources for the working muscle during exercise.</p> <p>2. Knowledge of Hydration guidelines for safety and performance and know how to evaluate and monitor hydration status</p> <p>3. Understand the role of nutrition in recovery from injuries.</p>	<p>Week -1</p> <p>Motor Development and Factors Affecting, Common Postural Deformities.</p> <p>Week-2</p> <p>Exercise guidelines at different stages of growth and development, corrective measures for postural, deformities.</p> <p>Week-3</p> <p>Sports Participation of women in India. Special consideration Dys- function.</p> <p>Week-4</p> <p>Female Athlete triad (Osteoporosis, Amenorrhoea and Eating Disorders)</p> <p>Activity -1</p> <p><u>Subject Enrichment:</u></p>	
Oct	Test &	16	1. To make them understand	1. Students will learn how	Week-1	

	Measurement & Physioloxy.		<p>about Motor Fitness Test</p> <p>2. To make them understand about General Motor Fitness: Barrow Three-item General Motor Ability (Standing Broad Jump, Zig-Zag Run, Medicine Ball Put- For Boys: 03 kg and for Girls: 01kg)</p> <p>3. To make them understand about Measurement of Cardiovascular Fitness: Harvard Step Test/Rockport Test</p>	<p>to take Friends test SAI Khelo Indian Fitness test in school.</p> <p>2. Students will learn how to computing Basal metabolic rate (BMR)</p> <p>3. Students will learn how to take BMI. Flamingo Balance, Plate taping test.</p>	<p>Fitness test BMI computing Basal metabolic Rate (BMR)</p> <p>Week-2</p> <p>Rikli & Jones. Senior citizen fitness test.</p> <p>Week- 3</p> <p>Physiological factors determining components fo physical fitness sports injuring</p> <p>Week-4</p> <p>Effects of exercise on muscular, cardio respiratory system.</p>	
Nov	Biomechanics & Sports. Psychology & Sports. & Training in Sports.		<p>1. To make them understand about Meaning and Importance of Biomechanics in Sports.</p> <p>2. To make them understand about Tyes of Movements (Flexion, Extension, Abduction and Adduction)</p> <p>3. To make them understand about Newton's Laws of Motion and Their Application in Sports.</p> <p>4 To make them understand</p>	<p>1 The Students will be able to describe the core principles of exercise physiology and related exercise.</p> <p>2. The students will identily the principle of chemical exercise physiology, as well as describe the patho physiology of disease and their associated risk factors.</p>	<p>Week-1</p> <p>Newton's law of motion & its application in sports.</p> <p>Equilibrium Dynamic & static centre of gravity Fraction & sports projectile in sports.</p> <p>Week-2</p> <p>Jung classification & Big five theory. Phychological Attributes in sports.</p> <p>Self Esteem, mental, self talk</p>	Protion of 3rd UT. Cha- 8,9,10

			<p>about Personality, its Definition and Types- Trait and Type (Sheldon's and Jung's Classification and Big Five Theory)</p> <p>5. To make them understand about Motivation, its Types and Techniques.</p> <p>6. To make them understand about Exercise Adherence, Reasons to Exercise, Benefits of Exercise.</p>	<p>3. Students will learn how to use the Newton's law of motion & application in sports.</p> <p>4. Students will learn how to use the Dynamic & static and centre of gravity and its application in sports.</p> <p>5. Provide facility and preceptor mentorship to produce graduates who are future leader's and outstanding clinicians.</p> <p>6. Contribute to the athletic training profession through the scholarship and leadership of the faculty, staff and students.</p>	<p>goal setting, types of Aggression in sports.</p> <p>Week-3</p> <p>Concept of talent identification and talent development in sports.</p> <p>Introduction of sports training cycle- Micro meso, Macro cycle</p> <p>Types & Method to develop-strength, Endurance and speed.</p> <p>Types & Method to develop flexibility and coordinative ability.</p>	
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CLASS: XII

SUBJECT: Painting

Book- History of Indian Art

			An Introduction to Indian Art		
MONTH	CHAPTER	No. of Periods	LEARNING OBJECTIVES	Painting practical	UT/PT/T1
APRIL	Unit-1 CH-1, 2,3,4	4	<ul style="list-style-type: none"> ➤ Introduction, Origine and Development of miniature paintings ➤ Six Limbs of indian painting ➤ Pala schools of mniaturepaintings, western schools. ➤ Rajsthanischool, pahari school miniature painting ➤ Mughal school of miniature Painting ➤ Daccan school of miniature painting ➤ Sub school and Artist and thair Painting, techniques of Paintings. 	<ul style="list-style-type: none"> • Week 1 Nature composition drawi • Week 2 Nature composition pastel colour • Week 3 Land scape Drawing • Week 4 Land scape colour in water colour <p>ACTIVITY- 1 <u>Experiential Learning: students will learn about nature they do outdoor work</u> Skills: they analyze about shape drawing and colour shades</p> <p>ACTIVITY -2 students will do out door work in school campus</p> <p>Skills: students will can know about use of water colour</p>	
MAY	CH-5	2	<ul style="list-style-type: none"> • The Pahari school Painting of miniature painting, origine and development, Painting ,materials, technique, Artist sub schools ,Artist and Paintings description. 	<ul style="list-style-type: none"> • Students can draw flowers composition • Learn about use of pastel colour 	
JUNE	Rivision CH-1,2,3,4,5	4	<ul style="list-style-type: none"> • The Miniature Painting Tradition • The Rajsthani, Pahari Schools Painting • The Mughal Schools Painting • The Deccan Schools Painting 	<ul style="list-style-type: none"> • They can learn Haritage drawing and shading • They will learn Madhubani Painting <p>ACTIVITY1 students will learn collage work of great person. <u>Subject Enrichment: students learn collage work wastmaerials</u></p>	
JULY	CH-6	4	<ul style="list-style-type: none"> • The Bengal school and cultural Nationalism • Company painting: • Bengal School origine and development • Contribtion of Indian Artiststs in National freedom struggle • The Evolution of Indian National Flag 	<p>ACTIVITY-2 <u>Art Integrated: Goa and Jharkhand folk painting study as cav painting sohrail painting</u> Skills: students can know about folk art of 2 state tribals work Creative Thinking ACTIVITY-3 students will learn bankura style painting yamini ray style <u>Subject Enrichment:</u></p>	

			<ul style="list-style-type: none"> • Painting and Artist their discriptions. 	Student can make yaminiroy painting	
AUGUST	CH- 7 SDG: 4: Quality Education	4	<ul style="list-style-type: none"> ➤ The Modern Indian Art ➤ Introduction to Mordernism and Contemporary art in India ➤ Major Modern Trends ➤ The Progressive Artists group of Mumbai the mutificated Indian Art. ➤ Abstraction– Anew Trend 	<ul style="list-style-type: none"> • Studentscan make miniature paintings • Banithani • Kangra school painting • Mughal school miniature painting <p>Group discussion- students can do group discussion about miniature painting colour,paintindiscription.</p> <p>ACTIVITY-1</p>	UT-2
SEPTEMBER	CH-7	4	<ul style="list-style-type: none"> ➤ Modrn and Contemporary Artists Painting ➤ BenodBehariMukharjee– The Lives of Medieval Saints, M. F. Hussain- Mother Teresa, Amrita shergil- Haldi Grinder,K. G. Subramanyan-Fairy Tales from Purvapalli ➤ Graphic print- Krishna Reddy- Whirlpool, Children – SomnathHore, Devi- jyoti Bhatt, Of wall -AnupamSud, Rural south Indian man and woman- LakshmaGoud ➤ Sculpture: Trimpth of Labour-Devi Prasad Roychowdhury,SañthalFaimily- Ram Kinker, Cries Unheard- AmarnathSahgal,Ganesha-P. V. Jankiram,Vanshri-MrinaliniMukharjee 	<ul style="list-style-type: none"> • Still life Fruit Basket • They learn about use of colour. • They will analyze about colours shades. <p>.ACTIVITY - 1</p> <p><u>Subject Enrichment: students will make all miniature painting and write the name of artists name.</u></p>	UT-3
OCTOBER	CH-7’ 8 2 ,3 ,4,5	4	<ul style="list-style-type: none"> • The Living Art Traditions of India • Traditional Painting • Mithila Art • Warli Painting • Gond painting,Pithoro Painting • Pata Painting • Phad painting • Dhokracasting, Terracotta 		
NOVEMBER	CH- 1 to 8	4	Revision	practice for painting practical work Term-2	

