



Purnima International School

Shree Swaminarayan Gurukul, Zundal

Yearly/Term 1/Term 2 Syllabus for the Session 2024-25

Grade: XII COMMERCE

Subject: English

Month	Chapters	Learning Outcomes
April	<p>Prose 1 -The Last Lesson</p> <p>Poem 1 -My Mother at 66</p> <p>Prose 2 - Lost Spring</p> <p>Ch 1 - The Third Level</p> <p>Poem 3 - Keeping Quiet</p> <p>Notice</p>	<p>1. The Last Lesson: To understand the details of the Franco-Prussian war, to know and understand the feeling of those losing their identity and to explore the possibilities of regaining it.</p> <p>2. My Mother at 66: To understand the poem and theme.to find out the figures of speech used in the poem.</p> <p>3. Lost Spring: To understand the plight of young children forced into labour and denied the opportunity of schooling to understand the use of figures of speech in the lesson.</p> <p>4. The Third Level: To understand the theme of the prose to understand stress and anxiety of the modern world.</p> <p>5. Keeping Quiet: To infer the meaning of unfamiliar words by reading them in context and to identify the poetic devices.</p> <p>6. Notice</p> <p>(i) To express the ideas and write effectively.</p> <p>(ii) Awareness of the format, content and process of writing.</p> <p>(iii) Organize ideas on a particular subject.</p>
June	<p>Ch 2 -The Tiger King</p> <p>Ch 3 - Journey to the End of the World</p> <p>Prose 3 - Deep Water</p> <p>Official letters</p>	<p>1. The Tiger King: To acquire the knowledge of Plot and Theme of the lesson and to familiarize with specific Royal Indian background information of the author/history of cruel insensitive kings who found pleasure in hunting and killing innocent animals.</p> <p>2. Journey to the End of the World: To develop an interest in travelling to places of natural beauty and thereby the interest in working for a sustainable earth and to understand the direct impact of carbon emissions which affect the ozone layer which in turn melts the polar ice layers.</p>

		<p>3. Deep Water: To introspect on their fears and think of strategies of overcoming it in a controlled environment and to understand the importance of fighting fear for success in life</p> <p>4. Official letters</p> <p>(i) To express the ideas and write effectively. (ii) Awareness of the format, content and process of writing. (iii) Organize ideas on a particular subject.</p>
July	<p>Ch 4 - The Enemy Poem 4 - A Thing of Beauty Prose 4 - The Rattrap Letter of Application for a job Formal & Informal Invitation cards Replies to invitation cards</p>	<p>1. The Enemy: To identify and make connections between similar situations in own life experiences where our prejudices often hinder our human compassion and empathy for a political enemy and to understand the significance of professional ethics and social obligation in sensitive times.</p> <p>2. A Thing of Beauty: To identify and get familiar with the message of the poem and to enjoy the figure of speech used in the last two lines.</p> <p>3. The Rattrap: To learn about the human tendency to redeem oneself from dishonest ways and to understand that the whole world is nothing but a big rattrap.</p> <p>4. Letter of Application for a job 5. Formal & Informal Invitation cards Replies to invitation cards</p> <p>(i) To express the ideas and write effectively. (ii) Awareness of the format, content and process of writing. (iii) Organize ideas on a particular subject.</p>
August	<p>Prose 6 - Poets and Pancakes Poem 5 - A Roadside Stand Prose 5 - Indigo Report writing</p>	<p>1. Poets and Pancakes: To develop interest in the different areas of filmmaking like- direction, script writing, music, cinematography, choreography, editing, lyrics writing, dialogue writing, acting, screenplay, mixing etc., to understand and appreciate humour and satire in literature and to compare and contrast film making technology with that of the early days of Indian cinema.</p> <p>2. A Roadside Stand: To develop sympathy towards poor deprived people and to enable them to understand and use literary devices.</p> <p>3. Indigo: To be able to familiarize themselves (students') with specific</p>

		<p>background information of the Indian independence movement and to develop an optimistic attitude towards life amidst many struggles.</p> <p>4. Report writing</p> <p>(i) To express the ideas and write effectively.</p> <p>(ii) Awareness of the format, content and process of writing.</p> <p>(iii) Organize ideas on a particular subject.</p>
September	<p>Prose 7 - The Interview</p> <p>Prose 8 - Going Places</p>	<p>1. The Interview: To understand interview as a communication genre and to understand that the interview holds a position of unprecedented power and influence.</p> <p>2. Going Places: To get familiarise with specific background information of adolescents and adolescents fantasizing and to identify and make connections between similar situations in our own life experiences where each of us suffers dreams that are not rooted to the ground of common sense and tend to be exotic, glamorous and sophisticated.</p>
October	<p>Poem 6 - Aunt Jennifer's Tigers</p> <p>Ch 6 - On the Face of It</p> <p>Ch 8 - Memories of Childhood</p> <p>Article Writing</p>	<p>1. Aunt Jennifer's Tigers: To comprehend and appreciate the feminist aspects portrayed in the poem and to identify the different poetic devices used.</p> <p>2. On the Face of It: To promote self-acceptance, to explore multiple perspectives and to analyse strengths and weaknesses.</p> <p>3. Memories of my Childhood: To get familiarize with the universal concept of discrimination on the basis of caste/nationality/religion/gender and to understand the common factors, the hardships and the indignations suffered by the writers as they grew up in societies where ideals of justice, equality and liberty were words found only in textbook.</p> <p>4. Article writing</p> <p>(i) To express the ideas and write effectively.</p> <p>(ii) Awareness of the format, content and process of writing.</p> <p>(iii) Organize ideas on a particular subject.</p>
November	REVISION	
December	REVISION	
January	REVISION	
February	REVISION	

Subject: BS

Month	Chapters	Learning Outcomes
April	1.Nature and Significance of Management 2. Principles of Management 3.Business Environment	Understand the concept of management. <input type="checkbox"/> Explain the meaning of ‘Effectiveness and Efficiency. <input type="checkbox"/> Discuss the objectives of management. <input type="checkbox"/> Describe the importance of management Understand the role of top, middle and lower levels of management the Importance of coordination. Understand the concept of principles of management. <input type="checkbox"/> Explain the significance of management principles.
June	3.Business Environment (Cont.) 11. Marketing	Understand the concept of ‘Business Environment’. <input type="checkbox"/> Describe the importance of business environment. Describe the various dimensions of ‘Business Environment’. <input type="checkbox"/> Understand the concept of demonetization. Understand the concept of marketing mix. <input type="checkbox"/> Describe the elements of marketing mix. Understand the concept of promotion as an element of marketing mix. <input type="checkbox"/> Describe the elements of promotion mix. <input type="checkbox"/> Understand the concept of advertising. <input type="checkbox"/> Understand the concept of sales promotion. <input type="checkbox"/> Discuss the concept of public relations.
July	4.Planning 5.Organising 6.Staffing	Understand the concept of planning. <input type="checkbox"/> Describe the importance of planning. <input type="checkbox"/> Understand the limitations of planning Understand the concept of organizing as a structure. Describe functional and divisional structures of organisation. <input type="checkbox"/> Explain the advantages, disadvantages and suitability of functional and divisional structure. Understand the concept of formal and informal organisation. <input type="checkbox"/> Discuss the advantages, disadvantages of formal and informal organisation. Understand the concept of staffing. <input type="checkbox"/> Explain the importance of staffing. Understand the concept of training and development.
August	6.Staffing (Cont.) 7. Directing 8.Controlling	Describe the concept of directing. <input type="checkbox"/> Discuss the importance of directing. Understand the concept of motivation. <input type="checkbox"/> Develop an understanding of Maslow’s Hierarchy of needs. <input type="checkbox"/> Discuss the various financial and non-financial incentives. Understand the concept of communication.

		Understand the concept of controlling. <input type="checkbox"/> Explain the importance of controlling .Discuss the steps in the process of controlling
September	9.Financial Management	Understand the concept of financial management. <input type="checkbox"/> Explain the role of financial management in an organisation. <input type="checkbox"/> Discuss the objectives of financial management. Understand the concept of fixed and working capital. <input type="checkbox"/> Describe the factors determining the requirements of fixed and working capital.
October	9.Financial Management (Cont.) 10.Financial Markets 12.Consumer Protection	Discuss the concept of capital market. <input type="checkbox"/> Explain primary and secondary markets as types of capital market. <input type="checkbox"/> Differentiate between capital market and money market. <input type="checkbox"/> Distinguish between primary and secondary markets. Give the meaning of a stock exchange. <input type="checkbox"/> Explain the functions of a stock exchange. <input type="checkbox"/> Discuss the trading procedure in a stock exchange. Understand the concept of a consumer according to the Consumer Protection Act, 2019. <input type="checkbox"/> Explain the consumer rights <input type="checkbox"/> Understand the responsibilities of consumers <input type="checkbox"/> Understand who can file a complaint and against whom? <input type="checkbox"/> Discuss the legal redressal machinery under Consumer Protection Act, 2019.
November	REVISION	
December	REVISION	
January	REVISION	
February	REVISION	

Subject: ACCOUNTANCY

Month	Chapters	Learning Outcomes
April	Part: B 1.Financial Statements (4 days)	<ul style="list-style-type: none"> ▪ Meaning of financial statements of a company; ▪ Preparation of income statement of a company with notes to accounts ▪ Preparation of statement of financial position of a company accompanied by notes to accounts

**2. Financial Statement Analysis
(2 days)**

**4. Accounting
Ratios(12 days)**

**5. Tools of Financial Statement
Analysis – Comp. & Com. Size
Statement
(3 days)**

- Classification of items into their main heads and sub-heads of the financial statements;
- Meaning of financial statement analysis
- Tools of financial statement analysis
- Types of financial statement analysis
 - Vertical analysis
 - Horizontal analysis
- Distinction between horizontal analysis and vertical analysis
- Process of financial statement analysis
- Uses of financial statement analysis
- Parties interested in financial statement analysis
- Limitations of financial statement analysis
- Meaning of accounting ratios
- Methods to present a present a ratio
- Types of ratios
 - Activity ratios
 - Turnover ratio
 - Profitability ratio
 - Solvency ratios
- Calculation of various accounting ratios
- Analyse how a transaction is going to affect a ratio:
 - Increase the ratio
 - Decrease the ratio
 - Not change the ratio

- 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.

<p>June</p>	<p>Part: A 1.Fundamentals of Partnership (11 days)</p> <p>2.Goodwill: Nature and Valuation (5 days)</p>	<ul style="list-style-type: none"> ▪ Concept of partnership ▪ Meaning of partnership deed and its provisions ▪ Provisions of Companies Act, in absence of partnership deed in a written form ▪ Calculation of interest on drawings under different conditions ▪ Calculation of interest on capital under various conditions ▪ Preparation of partnership accounts: <ul style="list-style-type: none"> ○ by fixed capital method ○ by fluctuating capital methods ▪ Concept of past adjustments and passing a rectifying journal entry to correct an error/errors made in the past accounting years ▪ Concept of guarantee to a partner by the firm; guarantee by a partner to the firm and guarantee by a partner/s to other partner ▪ Calculation of divisible profit of the partners under different conditions of guarantee ▪ Meaning and concept of goodwill ▪ Types of goodwill ▪ Calculation of adjusted profit for the calculation of goodwill ▪ Calculation of goodwill the firm by various methods: <ul style="list-style-type: none"> ○ Simple average method ○ Weighted average method ○ Super profit method ○ Capitalization of super profit ▪ Capitalisation of average profit
<p>July</p>	<p>4. Admission of a Partner</p>	<ul style="list-style-type: none"> ▪ Meaning and concept of admission of a partner ▪ Calculation of the new profit and loss sharing ratio and the sacrifice ratio of the partners on the admission of a new partner ▪ Passing journal entries for the capital of the new partner; writing off old balances of the balance sheet and new goodwill of the firm on the admission of a new partner ▪ Meaning and concept of revaluation account ▪ Meaning and concept of retirement of a partner

	<p>5. Retirement of a Partner</p> <p>3.Change in profit sharing ratio</p>	<ul style="list-style-type: none"> ▪ Calculation of the new ratio and the gaining ratio ▪ Passing journal entries for the capital of the retiring partner; writing off old balances of the balance sheet and new goodwill of the firm on the retirement of an old partner ▪ Meaning and concept of revaluation account ▪ Preparation of the revaluation account; cash or bank account; partner's capital account; partners current account and the new balance sheet on the retirement of an old partner ▪ Settlement of the capital of the retiring partner ▪ Capital adjustments: <ul style="list-style-type: none"> ○ When the capitals of the continuing partners are arranged by opening current accounts ○ When the capitals of the continuing partners are arranged by opening cash account ▪ To find the new profit sharing ratio, ▪ To pass journal entries for treatment of new goodwill, ▪ To pass journal entries for accumulated reserves, old goodwill, old profit and losses and fictitious assets, ▪ To prepare the revaluation account <p>Write the journal entries to record the changes in the value of assets without changing the values and by changing the values</p>
<p>August</p>	<p>6. Death of a partner</p>	<ul style="list-style-type: none"> ▪ The concept of death of a partner ▪ Calculation of the new profit-sharing ratio on the death of a partner ▪ Pass journal entries for treatment of goodwill, ▪ Pass journal entries for accumulated reserves, old goodwill, old profit and losses and fictitious assets, ▪ Calculation of the profit share of the deceased partner ▪ Passing journal entry for treatment of new goodwill and share of the deceased partner in the profit of the current year ▪ Prepare ledger accounts on the death of a partner

	<p>7. Dissolution of a firm</p> <p>8. Issue of Share capital</p>	<p>Preparation of dead partner's loan account</p> <ul style="list-style-type: none"> ▪ Meaning of dissolution of a firm ▪ Modes of dissolution of a firm ▪ Difference between Dissolution of a firm and dissolution of partnership ▪ Concept of realisation account ▪ Settlement of accounts ▪ Realisation account ▪ Accounting on dissolution of Partnership firm ▪ Difference between – Revaluation account and Realisation account ▪ Concept of memorandum balance sheet <p>Preparation of memorandum balance sheet</p> <ul style="list-style-type: none"> ▪ Meaning of Share Capital ▪ Kinds or Classes of shares ▪ Difference between Equity shares and Preference shares ▪ Accounting treatment of issue of shares for cash at par and premium ▪ Accounting treatment of issue of shares for consideration other than cash ▪ Full subscription of shares ▪ Oversubscriptions of shares ▪ Under-subscriptions of shares ▪ Accounting treatment of calls in advance and calls in arrears ▪ Accounting treatment of forfeiture and re-issue of shares ▪ Pro-rata allotment of shares <p>Preparation of balance sheet for share capital</p>
<p>September</p>	<p>8. Issue of Share capital</p>	<ul style="list-style-type: none"> ▪ Meaning of Share Capital ▪ Kinds or Classes of shares ▪ Difference between Equity shares and Preference shares ▪ Accounting treatment of issue of shares for cash at par and premium ▪ Accounting treatment of issue of shares for consideration other than cash ▪ Full subscription of shares ▪ Oversubscriptions of shares ▪ Under-subscriptions of shares

		<ul style="list-style-type: none"> ▪ Accounting treatment of calls in advance and calls in arrears ▪ Accounting treatment of forfeiture and re-issue of shares ▪ Pro-rata allotment of shares <p>Preparation of balance sheet for share capital</p>
October	<p>9. Issue of Debentures</p> <p>Part: B</p> <p>5.Cash flow statements</p>	<ul style="list-style-type: none"> ▪ Debentures- Meaning and its concept ▪ Issue of debentures for cash and for consideration other than cash ▪ Passing journal entry for issue of debentures ▪ Accounting treatment for debenture issued as collateral security ▪ Concept of redemption of debentures ▪ Passing journal entries for transactions of issue of debentures with terms of redemption ▪ Calculation of interest on debentures and passing journal entries for the same <p>Writing off discount or loss on the issue of debentures and preparation of the ledger accounts for the same.</p> <ul style="list-style-type: none"> ▪ The meaning of cash inflow and cash outflow. ▪ The meaning of operating, investing and financing activities. ▪ Concept of cash and cash equivalent ▪ Prepare a cash flow statement <p>Will be able to give effects to adjustments in preparation of cash flow statement.</p>
November	REVISION	
December	REVISION	
January	REVISION	
February	REVISION	

Subject: ECONOMICS

Month	Chapters	Learning Outcomes
April	1. Introduction to Macro Economics, Basic concepts of national income. National income and	<p>(MACROECONOMICS) Ch 1. Introduction to Macro Economics, Basic concepts of National Income. National Income and National Income Aggregates</p> <p>1)To understand the basic concepts of macroeconomics (scope and</p>

	<p>national income aggregates</p>	<p>significance) .</p> <ol style="list-style-type: none"> 2. to understand the classification of goods. 3) explain the concept and components of consumption expenditure and investment expenditure. and investment expenditure. 4) To know about the concept of Gross Investment, Net Investment and Depreciation. 5) to understand the concept of stock and flow. 6) to learn about the four sectors of the economy and intersectoral flows. 7) To understand the circular flow of income. <ol style="list-style-type: none"> 1. to understand the concept of national income. 2) tell her about the domestic and national income concepts. 3) to introduce the children to the aggregate related to national income 4) to know about the nominal and real GDP. 5) children how GDP and welfare are related. 6) to understand the method of calculating national income (the value added method, the income method and expenditure method). understand the method to calculate national income through value added, income method and expenditure method.
<p>June</p>	<p>1. Indian economy on the eve of independence. 2. 2. Indian Economy 1947-1990</p> <p>3. LPG, GST and Demonetisation</p> <p>2. Money and Banking.</p>	<p>(INDIAN ECONOMIC DEVELOPMENT)CH.1. Indian economy on the eve of independence.</p> <ol style="list-style-type: none"> 1) to understand the basic concept of Indian economy during the Era of Independence. 2) To understand overall feature of Indian economy on the eve of Independence. 3) to understand the poor state of agriculture sector and industrial sector. 4) to understand the condition of foreign trade in India during British rule. 5) to also make the students understand about the demographics structure and occupational structure of Indian economy during the British rule. 6) To teach about the condition of infrastructure and railways in India during British rule. <p>CH 2. Indian Economy 1947-1990</p>

		<p>1) To understand about the economics system and common goals of the five-year plan.</p> <p>2) To understand the state of agriculture institutional reforms and Technical reforms adopted in agriculture, also to understand about the land reforms.</p> <p>3) Condition of industries between 1947 to 1990 (the industrial policy resolution, small scale industries) 4) To understand about the trade strategy and import substitution.</p> <p>CH3. LPG, GST and Demonetisations</p> <p>1) to understand the meaning of economic reforms (New Economic Policy).</p> <p>2) to understand about the elements of New Economic Policy.</p> <p>3) To learn about the various industrial sector reforms, financial sector reforms tax reforms, foreign exchange, trade and investment policy reforms undertaken under liberalisation.</p> <p>4) To understand the concept of privatisation and its needs.</p> <p>5) To explain the concept of globalisation. 6) reevaluate the performance of Indian economy during reforms.</p> <p>(MACROECONOMICS)</p> <p>CH2. Money and Banking</p> <p>1. Meaning and function and supply of money</p> <p>2) Money creation by commercial banking system.</p> <p>3) The central bank and its function.</p> <p>4) Teach on about the control of money supply by the Central Bank in India.</p>
July	<p>2. Money and Banking contd.....</p> <p>3. Income Determination and Multiplier.</p> <p>5. Human Capital Formation</p>	<p>CH2. Money and Banking (Contd...)</p> <p>5) Money creation by commercial banking system.</p> <p>6) The central bank and its function.</p> <p>7) Teach on about the control of money supply by the Central Bank in India.</p> <p>Ch 3: Determination and Multiplier</p> <p>1. To learn about Aggregate demand and its components in open and closed economy.</p>

		<p>2) To learn about the aggregate supply 3) to learn about the consumption and savings function. 4) to understand the relationship between propensity to consume and propensity to save. propensity. 5) Short run equilibrium output 6); Multiplier mechanism. (INDIAN ECONOMIC DEVELOPMENT) Ch.5. Human Capital Formation 1. Understand the concepts of human resource human capital formation and human development. 2. to understand the source of human capital. 3) to teach the significance of human capital formation.</p>
<p>August</p>	<p>5. Human Capital Formation 4. Government Budget. 6. Rural Development. 7. Employment.</p>	<p>4) what is the solution to the problem in India. 5) Education is a essential element of human capital formation. 6) How people become resource, Role of human capital in the economic development. (MACROECONOMICS) Ch.4. Government Budget. 1. To understand the concept of government budget. 2) To teach the objectives of the government budget. 3) To learn the components of the government budget. 4) Budget deficit 5) To learn about balance and unbalanced budget . (INDIAN ECONOMIC DEVELOPMENT) Ch.6. Rural Development. 1. Significance and meaning of the rural development. 2) challenges of rural development in agricultural 3) Rural banking a critically evaluation 4) agriculture marketing. 5) alternative marketing channels. 6)Emerging challenges of rural development.</p>

		<p>(INDIAN ECONOMIC DEVELOPMENT) Ch. 7. Employment 1) Some basic concepts like -workers : self employed and hired workers, casual and regular workers. 2) The rate of participation across rural in urban areas. 3) Distribution of workers by region and gender. 4) Distribution of workforce by industries. 5) Jobless growth and casualization of workforce. 6) Unemployment and its types.</p>
September	<p>7. Employment contd.....8. Environment and Sustainable Development 5. Foreign Exchange</p>	<p>(INDIAN ECONOMIC DEVELOPMENT) Ch. 7. Employment (contd....) 8) Government and employment generation (INDIAN ECONOMIC DEVELOPMENT) Ch.8. Environment and Sustainable 1. Meaning, effects of economic development on resource and environment including global warming. 2. Environmental Crisis 3. Sustainable Development (MACROECONOMICS) Ch.5. Foreign Exchange 1. To make the students understand the concept of foreign exchange. 2. to teach them the concept of foreign currency.</p>
October	<p>5. Foreign Exchange & Balance of payment(contd...) 9. Comparative Development Experiences of India and Neighbours.</p>	<p>(MACROECONOMICS) Ch.5. Foreign Exchange and Balance of Payment (Contd.....) 1. Balance of payment accounts 2. Meaning and components. 3.Foreign exchange rate 4. Meaning of fixed and flexible rates 5. Manage floating. (INDIAN ECONOMIC DEVELOPMENT) Ch.9. Comparative Development Experiences of India and Neighbours. 1. Developmental Experiences in India, China and Pakistan.</p>

		<p>2. Economic issues in these nations</p> <p>3. Growth population</p> <p>4. Central development and other human development index of India Pakistan and China.</p>
November	REVISION	
December	REVISION	
January	REVISION	
February	REVISION	

Subject: MATHS

Month	Chapters	Learning Outcomes
April	<p>1.Relations and Functions</p> <p>2.Inverse Trigonometric Functions</p> <p>3.Matrices Cont...</p> <p>5. Continuity and Differentiation Cont...</p>	<p>Through this chapter students will learn</p> <ul style="list-style-type: none"> ● Students must understand to relate the cross product with the relation ● Students must understand the forms of relation that is the reflexive relation, symmetric relation and transitive relation ● Students must understand the relation between the relation and functions ● Students must understand the different forms of functions that is the injective function and the surjective function <p>Students must understand the domain and the range of function</p> <p>Through this chapter students will learn</p> <ul style="list-style-type: none"> ● Students should understand the basic trigonometric functions their domains and range ● Students must understand the graphs of basic trigonometric functions and ● They must understand the one - one function and hence the existence of its inverse function ● They must understand the graph of the functions and their reflection in the line $y = x$ that is the graph of the inverse function ● They must understand the domain and the range of the inverse functions ● They must understand the properties of inverse trigonometric functions <p>They must understand the identities of inverse trigonometric functions</p>

		<p>Through this chapter students will learn</p> <ul style="list-style-type: none"> ● Students should understand the basic concept of matrices that is an array of numbers or objects ● Students must understand the order of matrix that is based on the number of rows and columns ● Students must understand the types of matrices based on the order of matrix ● Students should learn the algebra of matrices that is the addition and subtraction of matrices ● Students should learn the equality of two matrices and the condition required for two matrices to be equal
<p>June</p>	<p>. Determinants Cont....</p>	<p>Through this chapter students will learn</p> <ul style="list-style-type: none"> ● Students should learn the concept of determinant ● Students should learn the difference between the matrix and determinant ● Students should learn to expand the determinant of order 2 and 3 ● Students should learn the elementary row and column operation ● Students should learn to prove the results using the elementary row and column operation ● Students should learn to find the area of a triangle with the given vertices using the determinant ● Students should learn to find the equation of a line using the determinant ● Students should learn to find the minor of an element and hence learn to find the cofactor of an element ● Students should learn to find the adjoint of a matrix of order 2 and 3 <p>Students should learn to find the inverse of a matrix using the adjoint</p> <p>Through this chapter students will learn</p> <ul style="list-style-type: none"> ● Students should be able to recall the concepts of function ● Students must be able to recall the different functions and their respective graphs

	<p>.</p> <p>5. Continuity and Differentiation</p>	<ul style="list-style-type: none"> ● Students should be able to learn to find the left limit and the right limit ● Students should be able to learn to check whether the function is continuous or not comparing the left and right limit ● Students should be able to recall the standard derivatives they learnt in the previous class ● Students should be able to differentiate the given function using the multiplication rule <p>Students should be able to differentiate the given function using the division rule.</p> <ul style="list-style-type: none"> ● Students should be able to find the derivative of the given function using the chain rule ● Students should be able to find the derivatives of given inverse functions using the trigonometric identities ● Students should be able to find the derivatives of implicit and explicit functions <p>Students should be able to find the derivatives of parametric equations</p>
<p>July</p>	<p>4. Determinants</p>	<p>Through this chapter students will learn</p> <ul style="list-style-type: none"> ● Students should learn to find the rate of change of one quantity with respect to the other quantity ● Students should learn to check whether the function is increasing or decreasing using the first derivative ● Students should learn the first derivatives test and the second derivative test of maxima and minima ● Students should learn to find the local maxima and the local minima ● Also students should learn to find the global maxima and global minima <p>Moreover, students should learn to solve the real life problems using the concept of maxima and minima</p> <p>After studying this lesson students must be able to</p> <ul style="list-style-type: none"> ● To draw the graph of given LPP and hence to find out the solution of the problem <p>To find out the corner points from the graph and hence finding out the solution of the problem</p>

	<p>6. Applications of Derivatives 12. LPP</p> <p>10. Vector Algebra Cont...</p>	<p>After studying this lesson students will be able to</p> <ul style="list-style-type: none"> ● Distinguish between scalar and vector ● Define different types of vectors ● Add and Subtract vectors ● Multiply a vector by a scalar ● Apply section formula for vectors ● Find a unit vector along a vector ● Express a vector in space in terms of I, j, k components ● Understand the dot product of two vectors ● Find the angle between two vectors ● Find the projection of a vector along another vector ● Understand the cross product of two vectors <p>Find the area of a parallelogram and a triangle where the adjacent side vectors given</p>
<p>August</p>	<p>7. Integration</p> <p>8. Application of Integration Cont.....</p> <p>10. Vector Algebra</p> <p>11. 3D Geometry Cont.....</p>	<p>Through this chapter students will learn</p> <ul style="list-style-type: none"> ● Students should learn the basic concept of integration and the relation between the derivative and integration ● Students should learn the standard integrations and also learn the algebra of integration ● Students should learn the use of standard integration and the algebra of integration to integrate the given functions ● Students should learn to integrate the given functions using the substitution method ● Students should learn to integrate the given terms using the substitution as well as the trigonometric identities ● Students should learn to integrate the given terms using the standard integration formulas and the standard cases ● Students should learn to integrate the given terms using the cases of partial fraction <p>Students should learn to integrate the given product using the integration by parts</p> <p>After studying this chapter students will be able to</p>

		<ul style="list-style-type: none"> ● Define Direction ratios and Direction cosines ● Derive the equation of a line in space ● Find the angle between two lines whose equations are given ● Define skew lines and find the shortest distance between two lines <p>Apply the learned concepts in solving problems</p>
September	11. 3D Geometry Cont..... 9. Differential Equation Cont.... 8. Application of Integration	<ul style="list-style-type: none"> ● Describe several areas of mathematics beyond calculus ● Express their interest in mathematics ● Demonstrate algebraic facility with algebraic topics including linear, quadratic, exponential, logarithm and trigonometric functions ● Set up and solve linear systems/linear inequalities graphically/geometrically and algebraically ● They must understood to find out the simple curve and the area bounded between the given boundaries <p>They must able to figure out the given curves in order to find out the required region between the given boundaries</p>
October	9. Differential Equation 13. Probability	<p>Through this chapter students will learn</p> <ul style="list-style-type: none"> ● Judging the type of differential equation like Homogeneous, Linear Differential Equation etc. ● Finding the order and degree of a differential equation ● Finding the General and Particular solution of the given D.E. ● To find out the solution through the different methods ● They appreciate the existence of D.E. in different fields <p>After studying this lesson students will be able to</p> <ul style="list-style-type: none"> ● Apply the basic concept of probability ● Apply the theoretical approach in daily life ● Must be able to understand the application of conditional probability in terms of two dependent events <p>Understand the mutually exclusive and exhaustive events</p>
November	REVISION	
December	REVISION	
January	REVISION	
February	REVISION	

Subject: Informatics Practices

Month	Chapters	Learning Outcomes
April	Unit-1 Ch-1 Python Pandas – I and Python Pandas – II	Student will be Introduced with Python Data structure. Series and DataFrame. They will be able to create and perform different operations on it. Students will be taught different attributes of DataFrame.
June	Unit-1 Ch-2 Python Pandas – II and Ch-3 Data Visualization Plotting with PyPlot.	Students will be taught different functions of DataFrame and also, they will understand Data Visualisation.
July	Unit-2 Ch-5 MYSQL SQL Revision Tour. Unit-1 Ch-4 Importing and Exporting Data b/w CSV files and MySQL,	Students will have the revision of MySQL and SQL Queries which is taught in Class – 11. Students will understand the concept of Front End and Back End also they will understand how to perform different operation like insert, update, delete and search data to and from Python to MySQL.
August	Unit-2 Ch-5 MYSQL SQL Revision Tour and Ch-6 MYSQL Functions.	Students will have the revision of MySQL and SQL Commands which is taught in Class – 11, will be able to understand Numeric Function of MySQL.
September	Unit-4 Ch- 11 Societal Impacts, Unit-4 Ch-12 Data Protection.	Students will be familiar with different topics of Chapter-11 and 12.
October	Unit-2 Ch-9 Introduction to Computer Network and Ch-10 Introduction to Internet and Web Revision for Half Yearly Examination. Unit-2 Querying using SQL Functions	Students will be familiar with Network and its types, N/W devices, N/W threats as well as Web Technology. Students will be taught String and date and Time Function of MySQL
November	REVISION	
December	REVISION	
January	REVISION	

February	REVISION	
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Subject: PE

Month	Chapters	Learning Outcomes
April	<p>1: Management of Sporting Events</p> <p>2: Children and Women in Sports</p> <p>3: Yoga as Preventive Measure for Lifestyle Disease</p>	<p>Chapter 1: Management of Sporting Events</p> <ul style="list-style-type: none"> ➤ To learn about meaning, definition, objectives of planning. ➤ To understand about function of sports events management ➤ To know about various committees and pre, during, post responsibility. ➤ To explain the concept, meaning, importance and types of tournaments. ➤ To analyses procedure to draw a fixture in knock-out. ➤ To reflect upon fix the bye and seeding in knock-out. ➤ To draw a fixture of staircase and cyclic method in league. ➤ To learn about intramural and extramural tournaments. ➤ To know about the community sports program. <p>Chapter 2: Children and Women in Sports</p> <ul style="list-style-type: none"> ➤ To know about concept, meaning and types of motor development. ➤ To reflects upon motor development of children in three stages. ➤ To explain factors affecting motor development ➤ To compare between exercises guidelines at different stages of growth and development. ➤ To analyses about types of common postural deformities ➤ To explain meaning, causes, precaution and remedies of Spinal curvature, Flat foot, Knock-knees, Bow-legs and Round shoulder. ➤ To examine corrective measures of postural deformities. (Spinal curvature, Flat foot, Knock-knees, Bow-legs and Round shoulder) ➤ To identify concept of sports participation of women in India. ➤ To compare between special consideration. (Menarche and Menstrual Dysfunction)

		<ul style="list-style-type: none"> ➤ To examine female athlete triad. (Osteoporosis, Amenorrhoea and Eating disorder) <p>Chapter 3: Yoga as Preventive Measure for Lifestyle Disease</p> <ul style="list-style-type: none"> ➤ To learn about meaning and preventive measures of asanas. ➤ To understand about meaning and types of methods to measure obesity. ➤ To reflects upon preventing asanas from obesity. ➤ To understand meaning and types of diabetes. ➤ To know about preventing asanas from diabetes. ➤ To explain meaning, causes and symptoms of asthma. ➤ To reflects upon preventing asanas from asthma.
June	<p>3: Yoga as Preventive Measure for Lifestyle Disease (Continue..)</p> <p>4: Physical Education and Sports for CWSN (I-Quarterly Exam)</p>	<p>Chapter 3: Yoga as Preventive Measure for Lifestyle Disease (Continue..)</p> <ul style="list-style-type: none"> ➤ To learn about meaning of hypertension and types of blood pressure. ➤ To understand about meaning, causes and symptoms of back pain. ➤ To know about preventing asanas from back pain. ➤ To examine meaning, cause and symptom of arthritis. <p>Chapter 4: Physical Education and Sports for CWSN</p> <ul style="list-style-type: none"> ➤ To explain organization promoting disability sports. ➤ To analyses about disability etiquettes. ➤ To analysis about concept of inclusion in sports, its need and implementation. ➤ To compare between advantages of physical activities for CWSN. ➤ To understand about strategies to make physical activities accessible for CWSN.
July	<p>5: Sports & Nutrition</p> <p>6: Test & Measurement in Sports</p> <p>7: Physiology & Injuries in Sports</p>	<p>Chapter 5: Sports & Nutrition</p> <ul style="list-style-type: none"> ➤ To explain about concept, meaning of balance diet and nutrition. ➤ To identify about macro and micro nutrients. ➤ To learn about nutritive components and non-nutritive components. ➤ To know about food intolerance, food myths.

- To explain about meaning and methods to control weight.
- To learn about importance of diet in sports-pre, during and post competition requirements.
- To understand about the pitfall of diet.

Chapter 6: Test & Measurement in Sports

- To understand concept and meaning of test and measurement.
- To know about Fitness Test. (Sai Khelo India Fitness Test in School)
- To analyses about computing basal metabolic rate.
- To reflects upon Rikli and Jones: Senior Citizen Test.
- To compare between Harvard Step Test and Rockport One Mile Test.
- To reflects upon Johnson –Metheny Test.

Chapter 7: Physiology & Injuries in Sports

- To examine concept of physiology.
- To identify about physiological factors determining the components of physical fitness
 - A. Strength
 - B. Speed
 - C. Endurance
- To learn about effects of exercises on cardiorespiratory system.
- To understand about effects of exercises on muscular system.
- To analyses about physiological changes due to ageing.
- To identify sports injuries: classification.
 - A. Soft tissues injuries
 - B. Bone injuries
 - C.
 - D. Joint injuries

August

7: Physiology & Injuries in Sports (Continue...)

Chapter 7: Physiology & Injuries in Sports (Continue...)

- To explain causes and prevention from sports injuries.

	<p>8: Biomechanics & Sports 9: Psychology & Sports</p>	<ul style="list-style-type: none"> ➤ To learn about treatment of sports injuries. <ul style="list-style-type: none"> A. Soft tissues injuries B. Bone injuries ➤ Joint injuries <p>Chapter 8: Biomechanics & Sports</p> <ul style="list-style-type: none"> ➤ To understand about Newton’s laws and motion and their sports application in sports. ➤ To learn about levers and their sports application. ➤ To analyses equilibrium- dynamic and static and centre of gravity and its sports activities. ➤ To know about meaning and types of friction and their sports application. ➤ To explain projectile & trajectory in sports. <p>Chapter 9: Psychology & Sports</p> <ul style="list-style-type: none"> ➤ To learn about concept, meaning, dimension and types of personality. ➤ To identify traits and types.
<p>September</p>	<p>9: Psychology & Sports (Continue...) (Term-I Half Yearly Exam)</p>	<p>Chapter 9: Psychology & Sports (Continue...)</p> <ul style="list-style-type: none"> A. William Herbert Sheldon B. Jung’s Classification C. Big Five Personality Theory. <ul style="list-style-type: none"> ➤ To know about psychological attributes in sports. ➤ To understand about meaning of motivation and methods to improve motivation. ➤ To examine the adherence of exercise. ➤ To examine meaning and types of aggression.
<p>October</p>	<p>10: Training in Sports</p>	<p>Chapter 10: Training in Sports</p> <ul style="list-style-type: none"> ➤ To identify the talent and talent development in sports. ➤ To analyses about introduction of sports training cycle. ➤ To understand about meaning, definition, types and methods to improve strength. <ul style="list-style-type: none"> A. Isometric

		<ul style="list-style-type: none"> B. Isotonic C. Isokinetic ➤ To learn about meaning, definition, types and methods to develop endurance. <ul style="list-style-type: none"> A. Continuous Training B. Interval Training C. Fartlek Training ➤ To understand about meaning, definition, types and methods to develop Speed. <ul style="list-style-type: none"> A. Acceleration Run B. Pace Run or Races ➤ To explain meaning, Definition, types and methods to improve flexibility. <ul style="list-style-type: none"> A. Ballistic Method B. Static Stretching Method C. Dynamic Stretching Method D. Proprioceptive Neuro-Muscular Facilitation Technique ➤ To reflects upon meaning, definition and types of coordinative ability. ➤ To analyses meaning, types and importance of circuit training.
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December	REVISION	
January	REVISION	
February	REVISION	

Subject: ENTREPRENEURSHIP

Month	Chapters	Learning Outcomes
April	1. Entrepreneurial Opportunities 2. Enterprise Planning	Comprehend the concept and elements of business opportunity, understand the process of sensing opportunity, understand the various forces affecting business environment and identify the different idea field

June	2. Enterprise Planning (Cont.) Ch-3 Enterprise Marketing	Recall the meaning of various forms of business organisation, Appreciate the meaning of business plan, be able to devise a business plan
July	Ch-3 Enterprise Marketing (Cont.) Ch-4 Enterprise Growth Strategies	Understand the various marketing strategies used in a business, Understand Marketing Mix and the Concept of 4 Ps and its application in real life
August	Ch-4 Enterprise Growth Strategies (Cont.) Ch-5 Business Arithmetic (BEP & EOQ, UP,UC, GP Numerical)	Understand the concept of Growth and Development of an enterprise, Understand the concept types advantages and limitations of franchising, Mergers and Acquisitions.
September	Ch-5 Business Arithmetic (ROI & ROE Numerical)(Cont..)	Understand the Unit Price and Unit Cost Understand the calculation of Breakeven point and Return on Investment and Return on Equity
October	Ch-6 Resource Mobilization	Understand the need of business finance, Understand the various sources of raising funds , Appreciate the Angel Investors and Venture Capitalists as source of finance
November	REVISION	
December	REVISION	
January	REVISION	
February	REVISION	