

**St. Paul's School, Aya Nagar**

**Commerce Section Monthwise Syllabus**

**Class XII**

<b>English</b>		
<b>Month</b>	<b>Chapters and Topic Covered</b>	<b>Practical/Activities</b>
<b>April</b>	<b>1. WRITING SKILLS</b> <ul style="list-style-type: none"><li>● Notice writing</li></ul> <b>2. FLAMINGO -</b> <ul style="list-style-type: none"><li>● The Last Lesson (Prose)</li><li>● Aunt Jennifer's Tigers (Poem)</li><li>● My Mother at Sixty-Six (Poem)</li></ul> <b>3. VISTAS</b> <ul style="list-style-type: none"><li>● The Tiger King</li><li>● On the Face of It</li></ul>	
<b>May</b>	<b>1. WRITING SKILLS</b> <ul style="list-style-type: none"><li>● Formal Invitation</li><li>● Reply to formal Invitation</li><li>● Informal Invitation</li><li>● Reply to informal invitation</li></ul> <b>2. FLAMINGO-</b> <ul style="list-style-type: none"><li>● Lost Spring (Prose)</li><li>● Keeping Quiet (Poem)</li></ul> <b>3. VISTAS-</b> <ul style="list-style-type: none"><li>● Memories of Childhood</li></ul>	<ul style="list-style-type: none"><li>● Class tests based on the chapters completed</li></ul>
<b>July</b>	<b>1. WRITING SKILLS</b> <ul style="list-style-type: none"><li>● Letter to the Editor</li></ul> <b>2. FLAMINGO</b> <ul style="list-style-type: none"><li>● Deep Water (Prose)</li><li>● A Thing of Beauty</li></ul> <b>3. VISTAS-</b> <ul style="list-style-type: none"><li>● Journey to the end of the Earth</li></ul>	
<b>August</b>	<b>1. WRITING SKILLS</b>	<b>ASSESSMENT OF</b>

	<ul style="list-style-type: none"> <li>• Letters for job application with bio data or resume</li> </ul> 2. FLAMINGO- <ul style="list-style-type: none"> <li>• The Rattrap (Prose)</li> <li>• A Roadside Stand (Poem)</li> </ul> 3. VISTAS- <ul style="list-style-type: none"> <li>• The Enemy</li> </ul>	<b>SPEAKING SKILLS</b>
<b>September</b>	1. <b>WRITING SKILLS</b> <ul style="list-style-type: none"> <li>• Article/Report Writing</li> </ul> 2. FLAMINGO- <ul style="list-style-type: none"> <li>• Indigo (Prose)</li> <li>• Poets and Pancakes</li> </ul> 3. VISTAS- <ul style="list-style-type: none"> <li>• The Third Level</li> </ul> 4. Revision of the Syllabus covered for Term-1 exam	<b>ASSESSMENT OF LISTENING SKILLS</b>
<b>October</b>	1. FLAMINGO <ul style="list-style-type: none"> <li>• The Interview</li> <li>• Going Places</li> </ul>	<b>Project Work</b>
<b>November till First week</b>	<b>Revision of the syllabus covered (Pre-Boards)</b>	<b>Project Work</b>

<b>Mathematics</b>		
<b>Month</b>	<b>Chapters and Topic Covered</b>	<b>Practical/Activities</b>
<b>March</b>	1. Matrices 2. Determinants	Assignment on Matrices and Determinants
<b>April</b>	3. Inverse Trigonometric Functions 4. Relations and Functions	Assignment on Inverse Trigonometric Functions <b>Activity 1</b> - To verify that the relation R in the set L of all lines in a plane, defined by $R = \{(l, m) : l$

		<p><math>\  m \}</math> is an equivalence relation.</p> <p><b>Activity 2</b> - To draw the graph of , using the graph of <math>\sin x</math> and demonstrate the concept of mirror reflection (about the line <math>y = x</math>).</p>
<b>May</b>	5. Continuity and Differentiability	<p>Common worksheet on Chapter 1 to 5 During summer vacations</p> <p><b>Activity 3</b> - To establish a relationship between common logarithm (to the base 10) and natural logarithm (to the base <math>e</math>) of the number <math>x</math>.</p>
<b>July</b>	6. Applications of Derivatives 7. Integration	<p>Assignment on Applications of Derivatives</p> <p><b>Activity 4</b> - To understand the concepts of local maxima, local minima and point of inflection.</p> <p><b>Activity 5</b> - To find the time when the area of a rectangle of given dimensions become maximum, if the length is decreasing and the breadth is increasing at given rates.</p>
<b>August</b>	Integration (continued)	<p>Assignment on Integration</p> <p><b>Activity 6</b> - To evaluate the definite integral</p>

		$\int_a^b \sqrt{(1-x^2)} dx$ as the limit of a sum and verify it by actual integration.
<b>September</b>	8. Application of integrals	Assignment on Application of integrals
<b>October</b>	9. Differential equations 10. Vector Algebra 11. Three-Dimensional Geometry	Assignment on Differential equations, Vector Algebra and Three-Dimensional Geometry <b>Activity 7</b> - To verify that angle in a semicircle is a right angle, using the vector method. <b>Activity 8</b> - To measure the shortest distance between two skew lines and verify it analytically. <b>Activity 9</b> - To locate the points to given coordinates in space, measure the distance between two points in space and then to verify the distance using distance formula.
<b>November till First week</b>	12. Linear programming 13. Probability	Assignment on Linear programming and Probability <b>Activity 10</b> - To explain the computation of conditional probability of a given event A, when event B has already occurred, through an example of throwing a pair of dice.

Informatics Practices		
Month	Chapters and Topic Covered	Practical/Activities
April	<b><u>Ch-1</u></b> <b>Python Pandas - 1:-</b> <b>Introduction to Python libraries- Pandas, Matplotlib. Data structures in Pandas - Series and Data Frames.</b> <b><u>Ch-2</u></b> <b>Python Pandas - 2:-</b> <b>Series: Creation of Series from – ndarray, dictionary, scalar value; mathematical operations; Head and Tail functions; Selection, Indexing and Slicing.</b>	<b>Creation of data structures using pandas and numpy library of Python</b>
May	<b>Data Frames: creation - from dictionary of Series, list of dictionaries,</b> <b><u>Ch-3</u></b> <b>Plotting with PyPlot:-</b> <b>Purpose of plotting; drawing and saving following types of plots using Matplotlib – line plot, bar graph, histogram</b> <b>Customizing plots: adding label, title, and legend in plots</b>	<b>Data visualization, by using Matplotlib library of Python. Completing all the practical programs based on Pyplot</b>
July	<b><u>Ch-4</u></b> <b>Importing / exporting data between CSV files / MySQL and Pandas:-</b> <b>Text/CSV files; display; iteration; Operations on rows and columns: add, select, delete, rename; Head and Tail functions; Indexing using Labels, Boolean Indexing; Importing/Exporting Data between CSV files and</b>	<b>Group activity to be conducted to visualize data based on real life example.</b>  <b>Practical programs based on text files to be completed</b>

	<b>Data Frames</b>	
<b>August</b>	<p><b><u>Ch-5</u></b>  <b>MySQL SQL Revision</b>  <b>Tour :-</b>  <b>Revision of database concepts and SQL commands covered in class</b>  <b>XI Math functions:</b>  <b>POWER (), ROUND (), MOD ().</b></p> <p><b><u>Ch-6</u></b>  <b>MySQL functions</b>  <b>Text functions: UCASE ()/UPPER (), LCASE ()/LOWER (), MID ()/SUBSTRING ()/SUBSTR (), LENGTH (), LEFT (), RIGHT (), INSTR (), LTRIM (), RTRIM (), TRIM ().</b>  <b>Date Functions: NOW (), DATE (), MONTH (), MONTHNAME (), YEAR (), DAY (), DAYNAME ().</b>  <b>Aggregate Functions: MAX (), MIN (), AVG (), SUM (), COUNT (); using COUNT (*).</b></p> <p><b><u>Ch-7</u></b>  <b>Querying using SQL:-</b>  <b>Querying and manipulating data using Group by, Having, Order by.</b></p> <p><b><u>Ch-8</u></b>  <b>Joins and set operations:-</b>  <b>Working with two tables using equi-join</b></p>	<p><b>Practical programs based on databases.</b></p> <p><b>Creating tables that can be used for the project</b></p>
<b>September</b>	<p><b><u>Ch-9</u></b>  <b>Introduction to networks,</b>  <b>Types of network: PAN, LAN, MAN, WAN.</b>  <b>Network Devices: modem, hub, switch, repeater, router, gateway</b>  <b>Network Topologies: Star, Bus, Tree, Mesh.</b></p>	<p><b>Creation of models and related powerpoint presentation</b></p>

	<b><u>Ch-10</u></b> <b>Introduction to Internet, URL, WWW, and its applications- Web, email, Chat, VoIP.</b> <b>Website: Introduction, difference between a website and webpage, static vs dynamic web page, web server and hosting of a website. Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies.</b>	
<b>October</b>	<b><u>Ch-11</u></b> <b>Societal Impacts</b> <b>Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR), plagiarism, licensing and copyright, free and open source software (FOSS)</b> <b><u>Ch-12</u></b> <b>Data protection</b> <b>cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act. E-waste: hazards and management. Awareness about health concerns related to the usage of technology</b>	<b>Class activity:- poster making to be conducted on the concerned topics</b>
<b>November till First week</b>	<b>Completion of final project</b>	

<b>Accountancy</b>		
<b>Month</b>	<b>Chapters and Topic Covered</b>	<b>Practical/Activities</b>
<b>April</b>	<b>Chapter 1.fundamental to partnership firm</b>	<b>Topic wise test and case studies</b>

	<b>Chapter 2 goodwill</b>	
<b>May</b>	<b>Chapter 3 change in profit sharing ratio Chapter 4 admission of partner</b>	<b>Topics wise test and case studies</b>
<b>July</b>	<b>Chapter 5 retirement and death of partner Chapter 6 dissolution of partnership firm</b>	<b>Topic wise test and case studies</b>
<b>August</b>	<b>Chapter 7 Accounting for share capital of companies Chapter 8 issue of the debentures</b>	<b>Topic wise test and case studies</b>
<b>September</b>	<b>Chapter 9. Company's balance sheet Chapter 10 Analysis of financial statements Chapter 11. Preparation of Comparative statement and common size statement</b>	<b>Topic wise test and case studies Project work from balance sheet from internet or economic times news paper Analysis of company's balance sheet using various tools By finding out accounting ratios By preparing Comparative and common size statement</b>
<b>October</b>	<b>Chapter 12 Ratio Chapter 13. Cash flow statement</b>	<b>Topic wise test and case studies Preparation of cash flow statement of a company</b>
<b>November till First week</b>		

<b>Business Studies</b>		
<b>Month</b>	<b>Chapters and Topic Covered</b>	<b>Practical/Activities</b>
<b>April</b>	<b>Chapter 1. Nature and significance of management</b>	<b>Project work on principles of management To find out whether</b>



	<b>Chapter 2 principles of management</b>	<b>principles of management are applied in the organisation chosen by student</b>
<b>May</b>	<b>Chapter 3 business environment Chapter 11 marketing management</b>	<b>Project work based on business environment Changing role of women from past 20 years Survival of Coca-Cola in Indian market Child labour in India  Preparation of project file based on the product chosen by student</b>
<b>July</b>	<b>Chapter 4 planning Chapter 5 organising</b>	<b>Case studies</b>
<b>August</b>	<b>Chapter 6 staffing Chapter 7 directing</b>	<b>Case studies</b>
<b>September</b>	<b>Chapter 8 controlling Chapter 9 financial management</b>	<b>Case studies</b>
<b>October</b>	<b>Chapter 10 financial market Chapter 12 consumer protection</b>	<b>Project work based on stock exchange</b>
<b>November till First week</b>	<b>Revision</b>	

<b>Physical Education</b>		
<b>Month</b>	<b>Chapters and Topic Covered</b>	<b>Practical/Activities</b>
<b>April</b>	<b>CHAPTER-1 MANAGEMENT OF SPORTING EVENTS</b> <ul style="list-style-type: none"> <li><b>FUNCTIONS OF SPORTS EVENTS MANAGEMENT</b></li> <li><b>VARIOUS</b></li> </ul>	<b>Topics will be discussed for Practical Project CYCLE TEST 1</b>

	<b>COMMITTEES AND THEIR RESPONSIBILITIES</b> <ul style="list-style-type: none"> <li>• <b>FIXTURES AND ITS PROCEDURE - KNOCK OUT AND LEAGUE</b></li> </ul>	
<b>May</b>	<b>CHAPTER-2 CHILDREN AND WOMEN IN SPORTS</b> <ul style="list-style-type: none"> <li>• <b>Common postural deformities</b></li> <li>• <b>Special consideration</b></li> <li>• <b>Female athletes triad</b></li> </ul>	
<b>July</b>	<b>CHAPTER-3 YOGA AS PREVENTIVE MEASURES FOR LIFESTYLE DISEASE</b> <ul style="list-style-type: none"> <li>• <b>OBESITY</b></li> <li>• <b>DIABETES</b></li> <li>• <b>ASTHMA</b></li> <li>• <b>HYPER TENSION</b></li> </ul> <b>CHAPTER-6 TEST &amp; MEASUREMENT IN SPORTS</b> <ul style="list-style-type: none"> <li>• <b>FITNESS TEST</b></li> <li>• <b>COMPUTING BASAL METABOLIC RATE</b></li> <li>• <b>RIKLI AND JONES SENIOR CITIZEN FITNESS TEST</b></li> </ul>	<b>PERIODIC TEST 1</b>
<b>August</b>	<b>CHAPTER-7 PHYSIOLOGY AND INJURIES IN SPORTS</b> <ul style="list-style-type: none"> <li>• <b>PHYSIOLOGICAL FACTORS DETERMINING COMPONENTS OF PHYSICAL FITNESS</b></li> </ul>	

	<ul style="list-style-type: none"> <li>• <b>EFFECT OF EXERCISE ON MUSCULAR SYSTEM</b></li> <li>• <b>EFFECT OF EXERCISE ON RESPIRATORY SYSTEM</b></li> <li>• <b>SPORTS INJURIES</b></li> </ul>	
<b>September</b>	<b>CHAPTER-8</b> <b>BIOMECHANICS AND SPORTS</b> <ul style="list-style-type: none"> <li>• <b>NEWTONS LAW OF MOTION AND THEIR APPLICATION IN SPORTS</b></li> <li>• <b>EQUILIBRIUM-DYNAMIC AND STATIC AND CENTER OF GRAVITY AND ITS APPLICATION IN SPORTS</b></li> <li>• <b>FRICTION AND SPORTS</b></li> <li>• <b>PROJECTILE IN SPORTS</b></li> </ul>	
<b>October</b>	<b>CHAPTER-9</b> <b>PSYCHOLOGY AND SPORTS</b> <ul style="list-style-type: none"> <li>• <b>PERSONALITY</b></li> <li>• <b>AGGRESSION</b></li> <li>• <b>PSYCHOLOGICAL ATTRIBUTES IN SPORTS</b></li> </ul>	
<b>November till First week</b>	<b>CHAPTER-10 TRAINING IN SPORTS</b> <ul style="list-style-type: none"> <li>• <b>CONCEPT OF TALENT IDENTIFICATION AND TALENT DEVELOPMENT IN SPORTS</b></li> <li>• <b>INTRODUCTION</b></li> </ul>	

	<b>TO SPORTS TRAINING CYCLE</b> <ul style="list-style-type: none"> <li>• <b>TYPES AND METHODS TO DEVELOP-STRENGTH ,ENDURANCE, &amp; SPEED</b></li> <li>• <b>TYPES AND METHODS TO DEVELOP - FLEXIBILITY AND COORDINATIVE ABILITY</b></li> </ul>	
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<b>Economics</b>		
<b>Month</b>	<b>Chapters and Topic Covered</b>	<b>Practical/Activities</b>
<b>April</b>	<b>Unit 1 of Macro</b>  <b>CH 1: Circular Flow of Income</b>  <b>CH 2: Basic Concepts of Macroeconomics</b>  <b>CH 3: National Income and Related Aggregates</b>  <b>CH 4: Measurement of National Income</b>  <b>Unit 1 of IED</b>  <b>CH 1: Indian Economy on the Eve of Independence</b>	<b>NCERT Questions</b>  <b>Topics will be discussed for Practical Project</b>  <b>Students will be asked to collect information relevant to their topic and submit a hard copy of the same</b>

<b>May</b>	<b>Unit 2 of Macro</b>  <b>CH 5: Money</b>  <b>CH 6: Banking- Commercial Banks and the Central Bank</b>  <b>Unit 1 of IED</b>  <b>CH 2: Indian Economy (1950-1990)</b>	
<b>July</b>	<b>Unit 3 of Macro</b>  <b>CH 7: Aggregate Demand and Related Concepts</b>  <b>CH 8: Income Determination and Multiplier</b>  <b>Unit 1 of IED</b>  <b>CH 3: Liberalisation, Privatisation and Globalisation: An Appraisal</b>	<b>Project written part to be completed completely</b>
<b>August</b>	<b>Unit 3 of Macro</b>  <b>CH 9: Excess Demand and Deficient Demand</b>  <b>Unit 2 of IED</b>  <b>CH 4: Human Capital Formation</b>	<b>Review: Students will work on presentation part and make the file</b>

	<b>CH 5: Rural Development</b>	
<b>September</b>	<b>Unit 4 of Macro</b>  <b>CH 10: Government Budget and the Economy</b>  <b>Unit 2 of IED</b>  <b>CH 6: Employment-Growth, Informalisation and Other Issues</b>	
<b>October</b>	<b>Unit 5 of Macro</b>  <b>CH 11: Foreign Exchange Rate</b>  <b>Unit 2 of IED</b>  <b>CH 7: Environment and Sustainable Development</b>	<b>Files to be submitted for correction AIL- PPT to be made based on the topic of the Project</b>
<b>November till First week</b>	<b>Unit 5 of Macro</b>  <b>CH 12: Balance of Payments</b>  <b>Unit 3 of IED</b>  <b>CH 8: Comparative Development Experience of India and its Neighbours</b>	