

St. Paul's School, Aya Nagar,

Monthwise Syllabus

Class XI, Session 2026-27

English		
Month	Lessons and Topics Proposed	Activities
July 25 Days	Hornbill 1.The Portrait of a Lady 2. A Photograph Snapshots 1.The Summer of a Beautiful White Horse Writing Skills 1. Poster Making	
	Reading Skills 1.Note Making and Summarisation	Assignments 1. Holiday Homework 2. Allocation of Project Work 3. Allocation of AIL 4. Worksheets on gap filling and re-ordering of sentences
July	<u>P.T. I Syllabus</u> Reading Skills 1. Note Making and Summarisation	Project Work Submission

	Grammar and Writing Skills 1. Gap Filling 2. Re-ordering of Sentences 3. Poster Making Literature 1. The Portrait of a Lady 2. The Summer of a Beautiful White Horse 3. A Photograph Hornbill 1. We're Not Afraid to Die... If We Can All Be Together 2. The Laburnum Top Snapshots 1. The Address Writing Skills 1. Classifieds	
August 20 Days	Hornbill 1. Discovering Tut: The Saga Continues 2. The Voice of the Rain Snapshots 1. Mother's Day Writing Skills 1. Speech 2. Debate	Viva
September 15 Days	Reading Skills Practice Worksheets - Reading Comprehension Passages - Note Making and Summarisation	Assignment - Worksheet on transformation of sentences

	Half-Yearly Exam – Syllabus covered till the first week of September.	
	Hornbill 1. Childhood	
October 22 Days	Hornbill 1. The Adventure Snapshots 1. Birth	
November 21 Days	Hornbill 1. Silk Road 2. Father to Son	
December 22 Days	<u>P.T. II Syllabus</u> Reading Skills 1. Unseen Passage – Case Based Writing Skills 1. Classifieds 2. Speech/Debate Literature 1. The Adventure 2. Childhood 3. Birth	
	Snapshots 1. The Tale of Melon City Revision - One Unseen Case Based Passage - Note Making and Summarisation - Classifieds	ASL
January	Revision - Speech/Debate	ASL

18 Days	- Term 1 Literature Syllabus	
February	Annual Exam – Complete Syllabus	

St. Paul's School, Aya Nagar

Mon th	Data Science Focus (Subject-Specific)	Employability Skills (ES) Focus
April	Orientation + Intro to Ethics	ES Unit 1 – Communication Skills-III
May	Ethics in Data Science	ES Unit 2 – Self-management Skills
July	Ethics (contd) + Assessing Data (start)	ES Unit 3 – ICT Skills
August	Assessing Data (contd)	ES Unit 4 – Entrepreneurship Skills
September	Forecasting on Data	ES Unit 5 – Green Skills
October	Randomization	ES – Communication in Group Work
November	Introduction to R Studio (basics)	ES Unit 2 + 4 (Self-management + Entrepreneurship)
December	R Studio (contd) + Project & Practical File	ES – Project Planning & ICT

Janua ry	Full Revision + Pre-board	ES – Exam-style Writing & Time Management
Febr uary	Final Revision + Practical Exam Prep	ES – Presentation & Viva Skills

Month Wise Syllabus

11th Data Science (844)

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Data Science Month Wise Syllabus		
M o n t h	Chapters Name	Key activities

A p p r i l	Orientation + Communication Skills (ES Unit 1) Data Science content: Introduction to Data Science subject, syllabus, assessment pattern (Theory 50 + Practical 50). Idea of practical file, project, and portfolio. ES Unit 1 – Communication Skills-III: Active listening, speaking clearly, polite and formal language, basic email etiquette.	Ice-breaker data survey activity Ice-breaker: “Data about me” – each student shares 3 pieces of data (e.g., hobbies, study hours) in 1–2 sentences. Others practice listening and summarizing. Role-play: One student writes a short email to a teacher asking for a doubt-clearing session; classmates give feedback on clarity and politeness.
M a y	Ethics in Data Science + ES Unit 2 Data Science unit: Ethics in Data Science: privacy, consent, data ownership, bias, fairness, responsible use of data. ES Unit 2 – Self-management Skills: Time management, goal setting, self-reflection, stress management (light introduction).	Case-study debate: Use 2–3 short case studies on data misuse (e.g., social media tracking, biased hiring). Groups discuss: “Is this ethical? Why or why not?” and present conclusions. “My study schedule” worksheet: Students create a weekly timetable for 1 week, allocating time for Data Science homework, project work,

		and revision; teacher discusses how to manage multitasking.
J u l y	Ethics (wrap-up) + Assessing Data + ES Unit 3 Data Science units: Complete Ethics in Data Science topics. Start Assessing Data: data types (qualitative/quantitative, discrete/continuous), primary vs secondary sources, data quality (accuracy, completeness, consistency, imeliness). ES Unit 3 – ICT Skills: Basic computer file management, internet searching, handling spreadsheets (Excel/Google Sheets)	Survey design: Groups design a short survey (e.g., mobile usage, study hours) and learn how to save it properly in a folder (ES link). Spreadsheet practice: Enter survey data into a spreadsheet, create folders for “Class XI Data Science”, “Projects”, “Assignments” (ES–ICT link).

A u g u s t	Assessing Data (contd) + ES Unit 4 Data Science unit: Descriptive statistics: mean, median, mode, range (conceptual and computational). Tabulation and simple charts (bar chart, pie chart) using spreadsheet. ES Unit 4 – Entrepreneurship Skills: Introduction to entrepreneurship, idea generation, basic problem-solving attitude.	Lab: Enter survey data from July, calculate mean/median/mode, and create at least one chart. “Data-based idea” activity: In groups, students think of a small business idea (e.g., tiffin service, stationery sale) and list 5 pieces of data they would collect (e.g., customer preferences, price points). They present briefly
S e p t e m b e r	Half Yearly Examination (26-27)	

O c t o b e r	Forecasting on Data + ES Unit 5 Data Science unit: Forecasting on Data: trends, simple forecasting intuition, time-series examples (school admissions, weather, sales). ES Unit 5 – Green Skills: Basic environmental awareness, sustainable practices, role of data in environment (e.g., pollution data, energy use).	Forecasting lab: Use pre-given data (e.g., yearly temperature or energy consumption) to plot a line chart and make a simple prediction. Group discussion: “How can data help protect the environment?” (using air pollution, waste data, etc.) and write 3–4 points.
N o v e m b e r	Randomization + ES in Communication Data Science unit: Randomization: randomness, simple probability, random experiments (coins, dice, cards), random sampling. ES focus: Communication in group work (asking questions, clarifying, explaining ideas clearly).	Basic plotting: bar chart of marks or small dataset. “Explain to a friend” activity: One student explains probability concept in simple language to a peer; peer repeats it back and teacher checks understanding (ES communication focus).

D e c e m b e r	R Studio basics + ES Unit 2 & 4 Introduction to R Studio: interface, basic commands, vectors, simple functions (sum, mean, length), basic charts. ES units integrated: ES Unit 2 (Self-management): Managing time for coding practice.	RStudio lab 1: Run simple arithmetic, create a vector, calculate mean/sum.
J a n u a r y	R Studio (contd) + Project + ES in Project Planning Data Science unit: More R: data frames, simple statistical analysis, basic boxplot/histogram. Completion of practical file and project/portfolio (as per CBSE). ES units integrated: ES Unit 4 (Entrepreneurship): How data scientists help businesses make decisions.	RStudio lab 1 Mini-project: Choose a small dataset (class marks, daily temperature, sports scores). Describe data type and source, compute basic statistics, create at least one chart, and write a short conclusion. Reflection worksheet: Students write 5–6 lines on “How can self-management help in learning programming?”

		(ES–Self-management link).
F e b	Final revision + Practical exam prep + ES in Presentation	Practical file: Ensure index, programs, outputs, and project report are neatly maintained (ES–ICT and organization skills).

Mathematics		
Month	Chapters and Topic Covered	Practical/Activities
APRIL	1. Sets 2. Relations and functions	Assignment on Sets Activity 1 - To represent set theoretic operations using Venn diagrams. Activity 2 - To distinguish between a Relation and a Function.
MAY	3. Trigonometric Functions	Common worksheet on Sets, Relations and functions and Trigonometric Functions during summer vacations. Activity 3 - To find the values of sine and cosine functions in second, third and fourth quadrants using their given values in first quadrant.

JULY	4. Complex numbers and quadratic equations 5. Linear Inequalities	Assignment on Complex numbers and quadratic equations and Linear inequalities. Activity 4 - To interpret geometrically the meaning of $i = -1$ and its integral powers.
AUGUST	6. Permutations and Combinations 7. Binomial theorem	Assignment on Permutations and Combinations Activity 5 - To construct a Pascal's Triangle and to write binomial expansion for a given positive integral exponent Assignment on Binomial Theorem
SEPTEMBER	Revision for TERM-1 8. Sequence and Series (Last week)	Assignment on Sequences and series Activity 6 - To demonstrate that the Arithmetic mean of two different positive numbers is always greater than the Geometric mean.
OCTOBER	9. Straight Lines 10. Conic Sections	Assignment on Straight Lines Assignment on Conic Sections Activity 7 - To construct different types of conic sections.
NOVEMBER	11. Introduction to three Dimensional Geometry 12. Limits and derivatives	Activity 8 - To explain the concept of octants by three mutually perpendicular planes in space Assignment on Introduction to three Dimensional Geometry Assignment on Limits and derivatives Activity 9 - Verification of the geometrical significance of derivatives.
DECEMBER	13. Statistics 14. Probability	Assignment on Statistics Assignment on Probability Activity 10 - To write the sample space, when a coin is tossed once, two times, three times, four times.
January	Revision	

Physical Education		
Month	Chapters and Topic Covered	Practical/Activities
July	CHAPTER-1 CHANGING TRENDS & CAREER IN PHYSICAL EDUCATION ● Concept ,Aim & Objectives of physical education ● Changing trends in sports - playing surface, wearable gears and sports equipment, technological advancements ● Career options in physical education ● Khelo india and fit india program	Topics will be discussed for Practical Project
August	CHAPTER-2 OLYMPISM ● Ancient and modern olympics ● Olympism- concept and olympics values ● Olympics- symbol, motto, flag, oath, and anthem ● Olympic movement structure- IOC, NOC,IFS, other members	● Class Test
September	CHAPTER-3 YOGA ● Meaning & importance of yoga ● Introduction to ashtanga yoga ● Introduction to yogic kriyas(shat karma) CHAPTER-4 PHYSICAL EDUCATION & SPORTS FOR CWSN	● Periodic Test 1

	● Concept of disability and disorder ● Types of disability, its causes and nature ● Aim & objective of adaptive physical education ● Role of various professionals for children with special needs	
October	CHAPTER-5 PHYSICAL FITNESS, HEALTH AND WELLNESS ● Meaning and importance of wellness, health and physical fitness ● components/dimensions of wellness, health and physical fitness ● Traditional sports & regional games for promoting wellness CHAPTER-6 TEST, MEASUREMENT & EVALUATION ● Concept of test , measurement & evaluation in physical education & sports. ● Classification of test in physical education and sports. ● Test administration guidelines in physical education and sports.	
November	CHAPTER-7 FUNDAMENTALS OF ANATOMY, PHYSIOLOGY IN SPORTS ● Definition and importance of anatomy and	

	physiology in exercise and sports ● Functions of skeletal system, classification of bones and types of joints. ● Function and structure of circulatory system and heart. ● Function and structure of respiratory system	
December	CHAPTER-8 FUNDAMENTALS OF KINESIOLOGY AND BIOMECHANICS IN SPORTS ● Definition and importance of kinesiology and biomechanics in sports ● Principles of biomechanics ● Types of body movements ● Axis and planes- concept and its application in body movements CHAPTER-9 PSYCHOLOGY & SPORTS ● Definition & importance of psychology in physical education & sports ● Adolescent problems & their management ● Team cohesion and sports	
DECEMBER	CHAPTER-10 TRAINING AND DOPING IN SPORTS ● Concept and principles of sports training ● Training load: over load, adaptation, and recovery ● Concept of doping and its disadvantages	

ECONOMICS

Economics		
Books - Micro Economics and Statistics for Economics		
By: Sandeep Garg		
Month	Chapters and Topic Covered	Practical/Activities
July	Unit 1 of Micro CH 1: Introduction [Micro]	Economic Icebreaker: Start the class with a discussion about everyday economic decisions students make. Ask questions like "Why did you choose to buy the brand of smartphone you own?" or "How do you decide where to eat lunch?" This can lead to a discussion about scarcity, choice, and opportunity cost.
	Unit 1 of Statistics CH 1: Introduction	
	Unit 2 of Micro CH 2: Consumer's Equilibrium	
	Unit 1 of Statistics CH 2: Meaning, Scope, Functions and Importance of Statistics	Statistical Research Presentation: Divide students into groups and assign each group a specific area where statistics are used (e.g., economics, sociology, medicine). Have them research and prepare a presentation on the meaning, scope, functions, and importance of statistics in their assigned field.

	Unit 2 of Micro CH 3: Demand CH 4: Elasticity of Demand	
	Unit 2 of Statistics CH 3: Collection of Data CH 4: Organisation of Data	Data Collection Project: Assign students to design and conduct a survey or observational study on a topic of interest. They should plan the data collection process, create survey questions or observation criteria, and collect data from their peers or members of the community. This activity will familiarize students with different methods of data collection and the challenges involved.
PT1	Syllabus covered in July	
August	Unit 3 of Micro CH 5: Production Function CH 6: Cost	Cost Curve Construction: Provide students with data on a firm's costs and instruct them to plot various cost curves (e.g., total cost curve, average total cost curve, marginal cost curve). Discuss the relationships between these curves and their implications for the firm's production decisions, economies of scale, and pricing strategies.
	Unit 2 of Statistics CH 5: Tabular Presentation	

	CH 6: Diagrammatic Presentation CH 7: Graphic Presentation	
September	Unit 3 of Micro CH 7: Revenue	
	Unit 3 of Statistics CH 8: Measures of Central Tendency- Arithmetic Mean	Real-world Applications of the Arithmetic Mean: Present students with real-world scenarios where the arithmetic mean is used to summarize data (e.g., average household income, average temperature over a period). Discuss the relevance of the arithmetic mean in these contexts and its implications for decision-making and policy formulation.
Half Yearly	Full syllabus covered till September	
October	Unit 3 of Micro CH 8: Producer's Equilibrium CH 9 : Supply	Producer's Equilibrium Simulation: Divide students into groups, with each group representing a different firm in a specific industry. Provide them with information about production costs, market prices, and revenue. Instruct them to make production decisions to maximize profits, considering factors such as marginal cost, marginal revenue, and price elasticity of supply.
	Unit 3 of Statistics	

	CH 9: Measures of Central Tendency- Median and Mode	
PT2	Syllabus covered in October	
November	Unit 4 of Micro CH 10: Main Market Forms	Market Forms Role-Playing Game: Divide students into groups, with each group representing a different market form (perfect competition, monopoly, monopolistic competition, oligopoly). Assign them roles such as producers, consumers, and regulators. Have them simulate market interactions, pricing strategies, and outcomes characteristic of their assigned market form.
	Unit 3 of Statistics CH 10: Measures of Correlation	
December	Unit 4 of Micro CH 11: Price Determination and Simple Applications	
	Unit 3 of Statistics CH 11: Index Numbers	Inflation Rate Calculation: Provide students with data on prices for a basket of goods and services over several years. Instruct them to calculate inflation rates using a price index (e.g., consumer price index) and discuss the significance of inflation in the economy, its impact on purchasing power, and its measurement through index

		numbers.
January	Revision of full syllabus	
Final Term	Full Syllabus	PROJECT WORK & VIVA

Accountancy		
Month	Chapters and Topic Covered	Practical/Activities
July	2. Accounting terms 7. Rules of debit and credit	Match the correct pairs terms with meaning
July	1. Meaning and objectives of accounting 2 Accounting principles 3. Journal entries	Accounting quiz 1 Actions for transactions
August	4. Process and bases of accounting 5. Accounting standards 6. Accounting equations 7 origin of transactions	Prepare accounting process Drag the words in correct boxes Choosing the correct answer after knowing the rules of debit and credit
September	10. Accounting for goods and service tax 11. Cash book 12. Subsidiary books 29. Rectification of errors	Prepare a file For verious slabs of GST and which products or services come under this categories
October	13. Ledger 14 trial balance 15 Bank reconciliation	Difference between cash book and pass book and their working

	statement	
November	16. Depreciation 17. provisions and reserves 21. Financial statements 22. Financial statements with adjustments	Making of project file on sole proprietorship
December till First week	20. Capital and revenue 23. Accounts from incomplete records	Class quiz over double entry and single entry system

Business Studies		
Month	Chapters and Topic Covered	Practical/Activities
July	1. Nature and purpose of business organisation	Introducing the students about industries
July	2. Forms of business organisations	Make them collect names of various types of organisations and put them in different categories
August	3. Private public and global enterprises 4. Business services 5. Emerging modes of business	Quiz, case studies regarding the topic
September	7. Business finance 8. Small business	Quiz and case studies
October	9. Internal trade 6. Social responsibility of business and business ethics	Reasons for performing social responsibility by business and their benefits
November	10. Internal business	Collection of Various

		documents used in international and their uses
November till last week		