SACRED HEART SCHOOL

(Affiliated to CBSE, New Delhi, up to +2 Level)

Monthly Syllabus – Session – 2026-27

Class:- XII **Subject:-ENGLISH**

Month	Chapter
April	Unseen Passage 1, Notice Writing 1. The Last Lesson 1. My Mother at Sixty-Six
May	Note-making + Summary, Formal/Informal Invitation & Reply 2. Lost Spring 2. Keeping Quiet 1. The Third Level
June	Unseen Case-based Passage, Letter to Editor 3. Deep Water 3. A Thing of Beauty 2. The Enemy
July	Job Application + Resume, Article Writing 150 words 4. The Rattrap 4. A Roadside Stand
August	Revision: All writing formats, ASL Practice 5. Indigo 5. Aunt Jennifer's Tigers 3. On the Face of It
September	**Half-Yearly Exams+ Revision** **Revision: Ch 1-5 Prose** **Revision: Poems 1-5 Revision: Ch 1-3**
October	Integrated Grammar practice through text, **Project Work starts** **Revision + Extra practice** 4. The Enemy if pending
November	ASL Final Assessment 5+5 marks, Project submission

	Full Literature Recap
December	**Pre-Board 1**: Full Syllabus, Reading speed drills Gap filling / RTC practice Theme + Character revision
January	**Pre-Board 2** **Sample Paper Practice** **Board-style Q&A 40 marks**
February	Revision: Writing 18 marks, Reading 22 marks Quick revision: all 5 prose Quick revision: all 5 poems Quick revision: all 4 stories
March	**CBSE Board Exams**

SACRED HEART SCHOOL

(Affiliated to CBSE, New Delhi, up to +2 Level)

Monthly Syllabus – Session – 2026-27

Class:- XII **Subject:- MATHEMATICS**

Month	Chapter(s)	Learning Outcomes	Activities / Lab Practicals
April	**Ch-1: Relations and Functions** **Ch-2: Inverse Trigonometric Functions**	• Determine types of relations: reflexive, symmetric, transitive, and equivalence relations. • Identify one-to-one (bijective) and onto functions. • Understand the definition, range, domain, and principal value branches of inverse trigonometric functions and sketch their graphs.	• **Activity 1:** To verify whether a given relation on a set is an equivalence relation using physical arrow models. • **Activity 2:** To draw the graph of $\sin^{-1}x$ using the graph of $\sin x$ by interchanging coordinate axes.
May	**Ch-3: Matrices** **Ch-4: Determinants**	• Master matrix operations (addition, scalar multiplication, non-commutative multiplication). • Understand symmetric and skew-symmetric matrices. • Evaluate determinants of up to 3×3 matrices; calculate minors, cofactors, and adjoints. • Find the inverse of a square matrix and solve systems of linear equations using the Matrix Method.	• **Activity 3:** To illustrate the concept of non-commutativity of matrix multiplication using specific 2×2 matrix examples.
June	**Summer Break & Core Prep**	• Reinforce Matrix algebraic operations and Inverse Trigonometry properties through practice sets.	• Completion of initial Term-1 math lab records and assignments.
July	**Ch-5: Continuity and Differentiability** **Ch-6: Application of Derivatives**	• Define and check continuity and differentiability of composite functions. • Apply Chain Rule, implicit differentiation, logarithmic differentiation, and parametric equations. • Compute higher-order derivatives up to the second order. • Apply derivatives to determine increasing/decreasing functions and	• **Activity 4:** To understand the concept of continuity of a function at a point using graphical pen-lifting visualization. • **Activity 5:** To explain the geometric meaning of Rolle's Theorem and Mean Value Theorem using thread and graph boards.

		locate absolute/local Maxima and Minima.	
August	**Ch-7: Integrals**	• Understand integration as the inverse process of differentiation. • Master integration techniques: substitution, partial fractions, and integration by parts. • Evaluate basic definite integrals using the Fundamental Theorem of Calculus. • Apply the core properties of definite integrals to solve complex structural functions.	• **Activity 6:** To understand the geometric definition of a definite integral as the limit of a sum using shaded grid columns under a curve.
September	**Ch-8: Application of Integrals** **Ch-9: Differential Equations** ***Half-Yearly Exam Block***	• Evaluate areas under simple curves (lines, circles, parabolas, ellipses in standard form). • Formulate the order and degree of ordinary differential equations. • Solve differential equations using the variable-separable method and solve homogeneous and linear differential equations.	• **Activity 7:** To find the area of a circle/ellipse using definite integration and verify it with standard geometric formulas.
October	**Ch-10: Vector Algebra** **Ch-11: Three-Dimensional Geometry**	• Distinguish between vectors and scalars; find direction cosines and direction ratios. • Compute the scalar (Dot) product and vector (Cross) product of two vectors. • Derive the vector and Cartesian equations of a line in 3D space. • Find the shortest distance between two skew lines.	• **Activity 8:** To explain the scalar triple product of vectors geometrically using a parallelopiped physical cutout model. • **Activity 9:** To find the distance of a given point from a specified line using graph coordinates and vector projections.
November	**Ch-12: Linear Programming** **Ch-13: Probability**	• Identify mathematical formulations of Linear Programming Problems (LPP). • Solve LPP graphically to find optimal feasible solutions (bounded cases).	• **Activity 10:** To illustrate the optimal solution zone of a Linear Programming Problem using different shaded regions on a graph sheet.

		• Master conditional probability, multiplication rule, and independent events. • Apply Bayes' Theorem and solve problems based on Random Variables and their Probability Distributions.	• **Activity 11:** To explain conditional probability using a deck of cards or throwing pairs of dice systematically.
December	**Full Syllabus Completion & Pre-Board-I**	• **Syllabus Wrap-Up:** Clean up remaining topics in the first week. • **Pre-Board-I:** Evaluate comprehensive performance under strict exam conditions. • Target and fix core speed and presentation mistakes.	• Submission and final assessment of the complete Mathematics Practical File. • Final Mathematics Viva-Voce.
January	**Pre-Board-II & Intensive Revision**	• Solve past 10 years' CBSE Board Question Papers. • Execute targeted revision rounds for high-weightage topics (Calculus, Vectors & 3D). • Conduct timed mock tests to fine-tune answer step-writing.	• Board Exam Strategy Sessions. • Error-log tracking classes.

SACRED HEART SCHOOL

(Affiliated to CBSE, New Delhi, up to +2 Level)

Monthly Syllabus – Session – 2026-27

Class:- XII **Subject:- PHYSICS**

Exam	Month	Theory chapter	Practicals	Learning outcome
P.T-1	**April** **May**	**Electric Charges and Coulomb's law** **Electric Potential and Capacitance**	Find resistance per unit length using ohm's law.	To understand concept of force between the charges
HALF YEARLY	**June** **July** **August** **September**	**Magnetic effect of Current** **Magnetism** **Electromagnetic Induction & AC current** **EMW** **Ray optics** **Wave optics**	Find the unknown resistance using meter bridge. Find figure of merit using galvanometer. Conversion of galvanometer into ammeter and voltmeter.	To understand concept of Magnetic effect, how galvanometer [works]. Difference between AC & DC
	October **November** **December**	**Dual nature of matter and radiation** **Atoms & nuclei** **Semiconductor devices**	Find focal length of concave mirror using 1/u-1/v Find refractive index using convex lens & plane mirror	Faraday law of EMI, Types of current DC & AC Concept of Huygen's principle.
	Dec - Jan	**Revision**	**Practice**	

SACRED HEART SCHOOL

(Affiliated to CBSE, New Delhi, up to +2 Level)

Monthly Syllabus – Session – 2026-27

Class:- XII **Subject:- CHEMISTRY**

Exam	Months	Theory chapters	Practicals	Learning outcomes
PT-I	April May	1.Solution 2.Electrochemistry	1. Titration with Oxalic acid and Mohr's salt	• conductivity of Ionic Substance • Preparation of Mixture
HALF YEARLY	June July August September	3. Chemical Kinetics 4. Haloalkanes & Haloarenes 5. Alcohols, Phenols and ether 6. Aldehydes, Ketones and Carboxylic Acids	2. Salt Analysis Two acid radical and Two basic radicals 3. Determination of Alcoholic group	• To determine the speed of chemical reaction • Presence of Functional group in organic compounds.
	October November Nov - Dec	Amines D & f-block elements Co-ordination compound	• Determination of Phenolic, Ketonic, Aldehydic, Amino group	• Preparation of Amines • chemical and physical properties • characteristics of typical metals and their properties
PT-2	**Dec - Jan**	**Revision**	**Practical Practice**	

SACRED HEART SCHOOL

(Affiliated to CBSE, New Delhi, up to +2 Level)

Monthly Syllabus – Session – 2026-27

Class:- XII **Subject:- BIOLOGY**

Exam	Months	Theory Chapters	Practicals	Learning Outcome
P.T I	**APRIL**	1. Sexual reproduction in flowering plants	Pollen germination on slide	• Str. of flower & gamete development
	May	2. Human Reproduction	T.S. of testis and ovary slides	• Pollination
H A L F Y E A R L Y	**June**	3. Reproductive Health.	T.S of Blastula slide	• Double fertilization
	July	4. Principle of Inheritance and Variation.	Mendelian inheritance using seed	• Reproductive health + STDs
	August	5. Molecular basis of Inheritance	Study of meiosis in onion bud	• Mendel's laws and monohybrid cross
		6. DNA Replication		• Incomplete
	September	7. Human Health and Disease		• Complete • Co-dominance
	October	8. Microbes in Human Welfare	Study of disease-causing organism	• DNA Str., packaging & replication
	November	9. Biotechnology: Principle & Process	• Plasmodium • Ascaris	Explain DNA technology, PCR, cloning
	Nov - Dec	10. Biotechnology: its application	• Entamoeba	
P.T 2	**Dec - Jan**	11. Organism and Population.	Study of plant population and density by Quadrat method	Population growth models & interactions
F I N A L	**Jan - Feb**	12. Ecosystem 13. Biodiversity and Conservation. **+ Revision**	Study of homologous and analogous organs.	Ecosystem, str, productivity & energy flow. Biodiversity patterns, in-situ, ex-situ

SACRED HEART SCHOOL

(Affiliated to CBSE, New Delhi, up to +2 Level)

Monthly Syllabus(2026-27)

Subject: Physical Education **Class:- XII**

Months	Chapter/Unit	Name of Topic
APRIL	UNIT-1	Management of Sporting Events.
MAY	UNIT-2	Children & Women in Sports.
JUNE	UNIT-3	Yoga as Preventive Measure for Lifestyle Disease.
JULY	UNIT-4	Physical Education and Sports for CWSN.
AUGUST	UNIT-5	Sports and Nutrition.
SEPTEMBER	UNIT-6	Test and Measurement in Sports.
OCTOBER	UNIT-7	Physiology and Injuries in Sports.
NOVEMBER	UNIT-8	Biomechanics and Sports.
DECEMBER	UNIT-9	Psychology and Sports.
JANUARY	UNIT-10	Training in Sports.
FEBRUARY	**REVISION & EXAM**	

EVALUATION

PT-I	UNIT- I & II
PT-II	UNIT- III to VIII

SACRED HEART SCHOOL

(Affiliated to CBSE, New Delhi, up to +2 Level)

Syllabus (2026-27)

Class XII **Subject:- CS(086)**

April – Python Revision (Class XI Topics)

Week	Topics	Learning Outcomes	Activities	Practical / Lab Work
1	Introduction, Variables, Data Types	Recall basic syntax and data types	Concept quiz, code samples	Simple input/output programs
2	Conditionals and Loops	Apply control structures effectively	Flowcharts, logic-based problems	Programs using if, for, while
3	Lists, Tuples, Dictionaries	Use Python data structures	Visual sorting/matching tasks	CRUD operations on list/dict
4	String Manipulation and Functions	Use string methods and define functions	Code tracing	Menu-driven programs using functions

May – Functions & Exception Handling

Week	Topics	Learning Outcomes	Activities	Practical / Lab Work
1	Built-in and User-defined Functions	Understand modular coding	Function classification	Function for calculator/tax calculator
2	Arguments, Return Values, Scope	Use different argument types	Parameter-based code matching	Programs using return values, default args
3	Exception Handling Basics	Handle errors gracefully	Error identification task	File not found, division by zero programs
4	try-except-finally, Nested Handling	Construct robust programs	Debug exception scenarios	File handling with exception demo

June – File Handling (Text and Binary)

Week	Topics	Learning Outcomes	Activities	Practical / Lab Work
1	Text File: Read/Write Modes	Manipulate text files using file modes	Mode chart	Word/vowel count from file
2	File Methods: read(), with, seek()	Use file methods efficiently	Seek/tell usage worksheet	Append/modify a text file
3	Binary File Basics, Pickle Module	Work with serialized files	Flowchart: binary vs text	Create/search student record in binary
4	Update/Search Binary Files	Update records using logic	Walkthrough of record edit	Modify student marks in file

Examination: PT1

July – CSV Files and Stack (Data Structure)

Week	Topics	Learning Outcomes	Activities	Practical / Lab Work
1	CSV File Writing	Structure data in CSV format	CSV vs Excel comparison	Write login credentials to CSV
2	CSV Reading/Search	Retrieve records from CSV	File parsing task	Search password from user ID
3	Stack: Concept, Push/Pop	Apply LIFO using list	Stack operations with playing cards	Stack menu: Push, Pop, Display
4	Menu-Driven Stack Application	Implement stack in real context	Trace the output task	Stack-based undo/redo simulation

August – Computer Networks (Part 1)

Week	Topics	Learning Outcomes	Activities	Practical / Lab Work
1	Evolution: ARPANET to Internet	Understand network history	Timeline creation	NA
2	Transmission Media (Wired/Wireless)	Compare types of media	Cable ID activity	NA
3	Data Communication, Switching	Identify communication components	Switching roleplay	NA
4	Devices: Router, Hub, Switch	Understand functions of devices	Device picture match	Lab device demonstration

September – Computer Networks (Part 2) + Unit Test

Week	Topics	Learning Outcomes	Activities	Practical / Lab Work
1	Network Types & Topologies	Distinguish PAN, LAN, WAN	Network diagram sketching	NA
2	Protocols (HTTP, FTP, SMTP, TCP/IP)	Recognize common network protocols	Protocol flashcards	NA
3	Web Services: WWW, HTML, XML	Understand structure of the web	URL anatomy labeling	HTML tag identification activity
4	**Unit Test + Recap**	Assess understanding of full unit	Written test & review	NA

Examination: Half Yearly

October – SQL & Database Concepts (Part 1)

Week	Topics	Learning Outcomes	Activities	Practical / Lab Work
1	DBMS Concepts, Keys, Schema	Define relational model terms	Schema design activity	Create student table
2	DDL Commands: CREATE, ALTER	Create and modify table structures	DDL command puzzle	Add constraints, modify column
3	DML: INSERT, DELETE, UPDATE	Modify records in a table	Query construction task	Insert and delete student records
4	SELECT with WHERE, ORDER BY	Filter records using SQL	Query tracing	Display filtered data

November – SQL Advanced + Python-SQL Connectivity

Week	Topics	Learning Outcomes	Activities	Practical / Lab Work
1	Aggregate Functions: COUNT, SUM, AVG	Perform data analysis in SQL	Result analysis worksheet	Get average marks by subject
2	JOINS: Cartesian, Equi, Natural	Merge related data	Table relationship builder	Join Students and Marks table
3	Python-SQL: connect(), cursor(), execute()	Integrate SQL with Python	Debug code snippets	Python program to retrieve data
4	Insert/Update via Python	Use SQL commands via Python	Code modification task	Python DB update/insert record

December – Project Development

Week	Topics	Learning Outcomes	Activities	Practical / Lab Work
1	Project Planning & Design	Choose and plan a real-world project	Brainstorm project ideas	Draft UI and DB structure
2	File Handling/DB Integration	Apply concepts to build application	Peer review and feedback	Start code modules
3	Testing, Debugging	Test app under various cases	Bug fixing challenge	Unit tests for modules
4	Documentation & Completion	Finalize and document project	Checklist review	Submit report and project code

Examination: PT2

January – Revision + Pre-board Exams

Week	Topics	Learning Outcomes	Activities	Practical / Lab Work
1	Full Syllabus Revision – Python & File Handling	Recap key Python areas	Worksheet recap	File handling exercises
2	SQL & Python-SQL Revision	Revise database concepts	Mock test quiz	SQL-Python integration test
3	Pre-board Theory Exam	Apply all learned concepts	Written exam	Final viva & practical exam
4	Pre-board Practical Exam	Demonstrate project and practicals	Viva-voce, final code check	Final practical exam & report submission