



# SACRED HEART SCHOOL

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

## Monthly Syllabus – Session – 2026-27

Class:- XI

Subject:-ENGLISH

Month	Chapter
April-May	<ul style="list-style-type: none"><li>- Reading: Unseen passage practice + Note-making &amp; Summarisation</li><li>- Writing: Essay writing</li><li>- Hornbill Prose: 1. The Portrait of a Lady</li><li>- Hornbill Poetry: 1. A Photograph</li><li>- Snapshots: 1. The Summer of the Beautiful White Horse</li></ul>
June-July	<ul style="list-style-type: none"><li>- Hornbill Prose: 2. We're Not Afraid to Die..., 3. Discovering Tut</li><li>- Hornbill Poetry: 2. The Laburnum Top, 3. The Voice of the Rain</li><li>- Snapshots: 2. The Address</li><li>- Writing: Letter-writing</li></ul>
August	<ul style="list-style-type: none"><li>- Hornbill Prose: 4. The Ailing Planet</li><li>- Hornbill Poetry: 4. Childhood</li><li>- Snapshots: 3. Ranga's Marriage</li><li>- Reading: Case-based factual passage</li><li>- Mid-term exam prep: Revision of April–August chapters</li></ul>
September	<p style="text-align: center;"><b>Mid-Term Exams</b></p> <p style="text-align: center;"><b>- Revision + Half-yearly exams covering all chapters done so far</b></p>
October	<ul style="list-style-type: none"><li>- Hornbill Prose: 5. The Adventure</li><li>- Hornbill Poetry: 5. Father to Son</li><li>- Snapshots: 4. Albert Einstein at School</li></ul>
November	<ul style="list-style-type: none"><li>- Hornbill Prose: 6. Silk Road</li><li>- Snapshots: 5. Mother's Day</li><li>- Writing: Creative Writing</li><li>- Listening + Speaking Assessment</li></ul>
December	<ul style="list-style-type: none"><li>- Snapshots: 6. The Birth, 7. The Tale of Melon City</li><li>- Project Work</li><li>- Revision of grammar topics retained in</li></ul>
January	<ul style="list-style-type: none"><li>- <b>Full syllabus revision</b></li><li>- <b>Sample paper practice, focus on Reading 26 marks and Literature 31 marks</b></li></ul>
February	<p style="text-align: center;"><b>Annual Exams</b></p>



# SACRED HEART SCHOOL

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

## Monthly Syllabus – Session – 2026-27

Class:- XI

Subject:- PHYSICS

Exam	Months	Theory Chapters	Practicals	Learning Outcome
P.T - 1	April	Unit & Dimension	Find diameter of spherical body using	Understand concept of one dimensional Motion
	May	Motion in Straight line		
HALF YEARLY	June	Motion in plane	Find internal diameter of cylindrical [body] using vernier calipers.  Find diameter of a wire using screw gauge	To know Motion in plane, projectile Motion.  To know concept of Laws of Motion.
	July	Laws of Motion		
	August	Work Power Energy		
	Sept	Rotational Motion Gravitation		
	Oct	Mechanical properties of Solid.	Using spherometer to find radius of curvature	To know difference between elasticity and plasticity.
	Nov	Mechanical properties of fluid		
	Dec	Thermal properties of matter.		
		Thermodynamics		
		Kinetic Theory of Gases		
	Wave and Oscillation			
Dec-Jan	Revision	<b>Practical Practice</b>		



# SACRED HEART SCHOOL

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

## Monthly Syllabus – Session – 2026-27

Class:- XI

Subject:- CHEMISTRY

Exam	Months	Theory Chapters	Practicals	Learning Outcomes
PT-1	April May	1. Some basic concept of chemistry 2. Structure of atom	1. Basic Laboratory Techniques	- To know the basic fundamental particles of matter
HALF YEARLY	June July Aug Sept	2. Structure of atom 3. Periodic classification of elements Chemical bonding and molecular structure Thermodynamics	2. Characterisation and purification of chemical substance 3. Experiments Based on pH changes	Periodicity and properties of elements to elements. To know the basic rules to form bonding. Basic Information about energy flow
	October November December January	Chemical equilibrium General organic chemistry [GOC] GOC / Hydrocarbon Hydrocarbons	4. Chemical Equilibrium 5. Quantitative Estimation 6. Qualitative Analysis (a) organic (b) inorganic	To know about strong and weak  To determine the presence of acid and basic radicals present in inorganic compound
PT-2	Feb- March	Revision	Practical Practice	



# SACRED HEART SCHOOL

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

## Monthly Syllabus – Session – 2026-27

Class:- XI

Subject:- BIOLOGY

Exam	Months	Chapters	Practicals	Learning Outcomes
PT I	April	Ch-1 - The living world Ch-2 - Biological classification	• Specimens of Amoeba, Paramecium	<ul style="list-style-type: none"> <li>• Living and non-living basis</li> <li>• Need for classification</li> <li>• Binomial nomenclature and taxonomic hierarchy</li> <li>• Whittaker's 5 Kingdom Classification.</li> </ul>
Half yearly Exam	May	Ch 3: Plant Kingdom Ch 5 - Morphology of flowering plants	•Morphology of root, stem, leaf, flower	<ul style="list-style-type: none"> <li>• Classification of plants</li> <li>• Morphology of root, stem, leaf, inflorescence, flower</li> <li>• Floral diagram and flower floral formulae</li> </ul>
	June	Summer Break + Revision Ch 1, 2, 3, 5	•Classification & morphology concepts practical records	•Morphological concept and distinguish.
	July	Ch 4: Animal Kingdom Ch 7: Structural Organisation in Animals	<ul style="list-style-type: none"> <li>•Hydra</li> <li>•Ascaris</li> <li>•Liver fluke</li> <li>•Earthworm</li> <li>•Cockroach</li> <li>•Frog</li> <li>•Fish</li> </ul>	<ul style="list-style-type: none"> <li>•Classify animals based on features, symmetry, coelom segmentation.</li> <li>•Animal tissues &amp; function.</li> <li>•Morphology &amp; anatomy of cockroach, earthworm, Frog</li> </ul>
	August	Ch 6: Anatomy of Flowering Plants. Ch 8: Cell: The unit of Life	<ul style="list-style-type: none"> <li>•T.S of Dicot/Monocot Stem Leaf</li> <li>•Mitosis in root tip of onion.</li> </ul>	<ul style="list-style-type: none"> <li>• Anatomy of dicot/monocot root, stem, leaf</li> <li>• Prokaryotic and Eukaryotic cell</li> <li>• Structure &amp; function of cell organelles.</li> </ul>
	September	Ch 9: Biomolecules Revision for Half yearly	•Test for sugar, starch, Protein, fats	<ul style="list-style-type: none"> <li>• Classification of carbohydrate, Protein, lipid, nucleic acid.</li> <li>• Enzyme action.</li> </ul>
	October	Ch 10:Cell Cycle and cell Division Ch 11:Photosynthesis in higher plants	<ul style="list-style-type: none"> <li>• Phases of mitosis through permanent slide.</li> <li>• Light &amp; dark reaction</li> </ul>	<ul style="list-style-type: none"> <li>• Phases of cell cycle, mitosis &amp; meiosis</li> <li>• Significance</li> <li>• Light &amp; dark reaction</li> <li>• C<sub>3</sub>, C<sub>4</sub> &amp; CAM Pathway</li> </ul>
	November	Ch 12:Respiration in plants Ch 13:Plant growth & development		•Explain glycolysis, Krebs cycle, ETS and ATP generation.

<b>PT 2</b>	<b>December</b>	<b>Ch 14:</b> Breathing and exchange of gases. <b>Ch 15:</b> Body fluids and circulation		<ul style="list-style-type: none"> <li>•Human respiratory system &amp; mechanism of breathing.</li> <li>•Transport of <math>O_2</math> &amp; <math>CO_2</math> and respiratory disorders.</li> <li>•Blood components</li> <li>•Cardiac cycle</li> <li>•ECG</li> </ul>
	<b>January</b>	<b>Ch 16:</b> Excretory Products <b>Ch-17:</b> Locomotion and movement <b>Ch 18:</b> Neural Control	Study of Skeleton System.	<ul style="list-style-type: none"> <li>• Human excretory system &amp; urine formation</li> <li>• Types of muscle &amp; mechanism of contraction.</li> <li>• Neural system &amp; reflex action.</li> </ul>
<b>Final</b>	<b>February</b>	<b>Ch 19:</b> Chemical Co-ordination <b>Full syllabus Revisions.</b>		<ul style="list-style-type: none"> <li>• Endocrine gland &amp; hormone action</li> <li>• Feedback mechanism of hormone regulation.</li> </ul>



# SACRED HEART SCHOOL

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

## Monthly Syllabus – Session – 2026-27

Class:- XI

Subject:- MATHEMATICS

Month	Chapter(s)	Learning Outcomes	Activities / Lab Practicals
April	Ch-1: Sets Ch-2: Relations and Functions	<ul style="list-style-type: none"><li>• Understand sets and their representations (Roster &amp; Set-builder form).</li><li>• Differentiate between empty, finite, infinite, and equal sets.</li><li>• Master subsets, power sets, and universal sets.</li><li>• Visualize operations using Venn Diagrams.</li><li>• Define Cartesian product of sets, relations, domain, co-domain, and range.</li><li>• Identify specific functions (identity, constant, polynomial, rational, modulus, signum, greatest integer) and their graphs.</li></ul>	<ul style="list-style-type: none"><li>• <b>Activity 1:</b> To find the number of subsets of a given set and verify it experimentally (<math>2^n</math>).</li><li>• <b>Activity 2:</b> To distinguish between a relation and a function using arrow diagrams and ordered pairs.</li></ul>
May	Ch-3: Trigonometric Functions	<ul style="list-style-type: none"><li>• Understand radian and degree measures and their conversions.</li><li>• Define trigonometric functions using a unit circle sign convention.</li><li>• Express <math>\sin(x \pm y)</math> and <math>\cos(x \pm y)</math> in terms of <math>\sin x</math>, <math>\sin y</math>, <math>\cos x</math>, <math>\cos y</math>.</li><li>• Derive and apply identities for <math>\sin 2x</math>, <math>\cos 2x</math>, <math>\tan 2x</math>, <math>\sin 3x</math>, etc.</li></ul>	<ul style="list-style-type: none"><li>• <b>Activity 3:</b> To interpret geometrically the meaning of radian measure and its relationship with degree measure.</li></ul>
June	Summer Break + Revision	<ul style="list-style-type: none"><li>• Consolidate and practice complex problem-solving for Chapters 1, 2, and 3.</li></ul>	<ul style="list-style-type: none"><li>• Completion of practical files and assignment sheets for Term-1 core topics.</li></ul>
July	Ch-4: Complex Numbers and Quadratic Equations	<ul style="list-style-type: none"><li>• Define the need for complex numbers, motivate the square root of <math>-1</math> (<math>i</math>).</li></ul>	<ul style="list-style-type: none"><li>• <b>Activity 4:</b> To represent complex numbers geometrically on an Argand plane using graph paper.</li></ul>

	<b>Ch-5: Linear Inequalities</b>	<ul style="list-style-type: none"> <li>• Understand the algebraic properties of complex numbers and the Argand plane.</li> <li>• Solve linear inequalities in one variable algebraically and represent them on a number line.</li> <li>• Graphically find solutions for systems of linear inequalities in two variables.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Activity 5:</b> To find the graphical solution of a system of linear inequalities.</li> </ul>
<b>August</b>	<b>Ch-6: Permutations and Combinations</b>  <b>Ch-7: Binomial Theorem</b>	<ul style="list-style-type: none"> <li>• Understand the Fundamental Principle of Counting.</li> <li>• Differentiate between Permutations (arrangements) and Combinations (selections) using <math>{}^n P_r</math> and <math>{}^n C_r</math>.</li> <li>• State and prove the Binomial Theorem for positive integral indices.</li> <li>• Apply Pascal's Triangle to expand binomial expressions efficiently.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Activity 6:</b> To illustrate the Fundamental Principle of Counting using tree diagrams with distinct everyday objects.</li> <li>• <b>Activity 7:</b> To verify Pascal's Triangle patterns using grid paper.</li> </ul>
<b>September</b>	<b>Ch-8: Sequences and Series</b>  <i>Half-Yearly Exam / Revision</i>	<ul style="list-style-type: none"> <li>• Define Arithmetic Progression (AP) and Geometric Progression (GP).</li> <li>• Derive formulas for the <math>n</math>-th term and the sum of the first <math>n</math> terms of a GP.</li> <li>• Understand the properties of Geometric Mean (GM) and its relation to Arithmetic Mean (AM).</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Activity 8:</b> To construct a Geometric Progression through paper folding and cutting activities.</li> </ul>
<b>October</b>	<b>Ch-9: Straight Lines</b>  <b>Ch-10: Conic Sections</b>	<ul style="list-style-type: none"> <li>• Recall 2D geometry basics (slope of a line, angle between two lines).</li> <li>• Derive various forms of equations of a line (intercept form, slope-intercept, two-point form).</li> <li>• Define and analyze sections of a cone: Circles, Parabolas, Ellipses, and Hyperbolas.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Activity 9:</b> To understand the shifting of the origin of axes and its impact on straight line coordinates.</li> <li>• <b>Activity 10:</b> To construct a parabola and an ellipse using thread, pins, and cardboard.</li> </ul>

		<ul style="list-style-type: none"> <li>• Derive standard equations and find focuses, vertices, eccentricity, and directrix.</li> </ul>	
November	<p><b>Ch-11: Introduction to Three-Dimensional Geometry</b></p> <p><b>Ch-12: Limits and Derivatives</b></p>	<ul style="list-style-type: none"> <li>• Coordinate axes and coordinate planes in three dimensions.</li> <li>• Find coordinates of points in 8 octants, apply distance and section formulas.</li> <li>• Grasp intuitive understanding of limits: left-hand and right-hand limits.</li> <li>• Understand the derivative as a rate of change and compute it using the First Principle.</li> <li>• Apply algebraic rules of derivatives (Product and Quotient rules).</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Activity 11:</b> To visualize the 3D coordinate system and locate points in different octants using a physical cardboard model.</li> <li>• <b>Activity 12:</b> To understand the geometrical interpretation of the derivative of a function at a point.</li> </ul>
December	<p><b>Ch-13: Statistics</b></p> <p><b>Ch-14: Probability</b></p>	<ul style="list-style-type: none"> <li>• Calculate measures of dispersion: Range, Mean Deviation, Variance, and Standard Deviation for grouped/ungrouped data.</li> <li>• Analyze frequency distributions with equal means but different variances.</li> <li>• Understand random experiments, sample spaces, and events (Mutually exclusive, Exhaustive).</li> <li>• Apply axiomatic probability to 'And', 'Or', and 'Not' events.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Activity 13:</b> To form data groups from sample observations and evaluate real-time variation/standard deviation.</li> <li>• <b>Activity 14:</b> To determine sample spaces and evaluate empirical vs. theoretical probability using dice/card simulators.</li> </ul>
January	<b>Full Syllabus Revision</b>	<ul style="list-style-type: none"> <li>• Identify learning gaps via targeted remedial classes.</li> <li>• Conduct mock tests, solve CBSE Sample Papers, and master time-management.</li> </ul>	<ul style="list-style-type: none"> <li>• Internal Assessment / Viva-Voce.</li> <li>• Evaluation of Mathematics Laboratory Project File.</li> </ul>
February	<b>Annual Examination</b>	<ul style="list-style-type: none"> <li>• Evaluate complete student performance across core theoretical concepts, calculations, and analytical applications.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Final Board-Pattern School Assessments.</b></li> </ul>



# SACRED HEART SCHOOL

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

## Monthly Syllabus(2026-27)

**Subject: Physical Education**

**Class:- XI**

<b>Months</b>	<b>Chapter/Unit</b>	<b>Name of Topic</b>
<b>July</b>	Unit – I	Changing Trends & Career in Physical Education
<b>August</b>	Unit – II	Olympic Value Education
	Unit – III	Yoga
<b>September</b>	Unit – III	Yoga
	Revision + 1st Term Exam	Unit I, II, III
<b>October</b>	Unit – IV	Physical Education & Sports for CWSN
	Unit – V	Physical Fitness, Health and Wellness
<b>November</b>	Unit – VI	Test, Measurement & Evaluation
	Unit – VII	Fundamentals of Anatomy & Physiology in Sports
<b>December</b>	Unit – VIII	Fundamentals of Kinesiology and Biomechanics in Sports
<b>January</b>	Unit – IX	Psychology & Sports
<b>February</b>	Unit – X	Training and Doping in Sports
<b>March</b>		Exam



# SACRED HEART SCHOOL

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

## Syllabus (2026-27)

### **Class XI**

**Subject:- IT(802)**

#### **April – Computer Organization**

Week	Topics	Learning Outcomes	Activities	Practical / Lab Work
1	Intro to Computer	Understand fundamentals	Diagram activity	Identify components
2	I/O Devices	Classify hardware/software	Discussion	Device listing
3	Memory Units	Understand storage	Comparison table	Conversion programs
4	Software Types	Differentiate software	Classification task	System info program

#### **May – Operating System & Troubleshooting**

Week	Topics	Learning Outcomes	Activities	Practical / Lab Work
1	Operating System	Understand OS role	OS examples	Identify OS
2	Types of OS	Compare systems	Group activity	Mobile OS study
3	Troubleshooting	Identify problems	Demo	Printer setup
4	Utilities	System maintenance	Cleanup activity	Disk cleanup practice

#### **July – Networking Basics**

Week	Topics	Learning Outcomes	Activities	Practical / Lab Work
1	Networking Intro	Understand networks	Diagram work	Topology identification
2	Transmission Media	Compare media	Cable activity	Hotspot setup
3	Network Devices	Device roles	Matching task	Device demo
4	Network Types	LAN/WAN	Discussion	Classification

## August – Internet & Cyber Security

Week	Topics	Learning Outcomes	Activities	Practical / Lab Work
1	Internet Basics	Internet concepts	Digital literacy	Bandwidth check
2	Protocols	Understand protocols	Flashcards	Protocol identification
3	Cyber Threats	Identify threats	Case study	Security check
4	Cyber Laws	Safe usage	Discussion	Security practices

## September – Word Processing

Week	Topics	Learning Outcomes	Activities	Practical / Lab Work
1	Writer Basics	Create documents	Practice	Create file
2	Formatting	Format text	Worksheet	Formatting lab
3	Tables	Create tables	Assignment	Table creation
4	Document Views	Manage documents	Lab work	Navigator usage

## October – Spreadsheet

Week	Topics	Learning Outcomes	Activities	Practical / Lab Work
1	Spreadsheet Intro	Understand Calc	Data entry	Worksheet creation
2	Formatting	Cell formatting	Practice	Format cells
3	Functions	Use formulas	Exercises	SUM/AVG
4	Charts	Create graphs	Chart activity	Graph lab

## November – Presentation

Week	Topics	Learning Outcomes	Activities	Practical / Lab Work
1	Impress Intro	Create slides	Design slides	Slide show
2	Animations	Add animation	Practice	Animation demo
3	Transitions	Slide transition	Activity	Transition practice
4	Presentation Project	Apply skills	Presentation	Assessment

## December – RDBMS

Week	Topics	Learning Outcomes	Activities	Practical / Lab Work
1	DBMS Concepts	Understand database	Schema task	Create table
2	MYSQL Intro	Install MYSQL	Lab practice	Create DB
3	DDL Commands	Create tables	Exercises	ALTER/DROP
4	DML Commands	Modify data	Query task	SELECT queries

## January – Java Programming

Week	Topics	Learning Outcomes	Activities	Practical / Lab Work
1	IDE Basics	Understand NetBeans	Create GUI	Component demo
2	Variables & Operators	Coding basics	Practice	Arithmetic program
3	Decision Making	Use if/switch	Logic activity	Programs
4	GUI Programs	Build app	Mini project	GUI program

## February – Revision & Examination

Week	Topics	Learning Outcomes	Activities	Practical / Lab Work
1	Revision Unit 1&2	Concept clarity	Discussion	Viva
2	Revision Unit 3	Office tools	Practice	Practical work
3	Revision Unit 4&5	DB & Java	Mock test	Coding practice
4	Final Assessment	Full syllabus	Test	Practical exam