LOYOLA HIGH SCHOOL, PATNA-800010

SYLLABUS FOR CLASS-9 (2026-2027)

ENGLISH

MONTH	Literature	Grammar	Composition
April	1. How I Taught My Grandmother to Read - Bharat Our Land (Poem)	Determiners	Descriptive Paragraph Writing
May	2. The Pot Maker - Gifts of Grace: Honouring Our Vocations (Poem)	Modals	Notice Writing
June	2. The Pot Maker - Gifts of Grace: Honouring Our Vocations (Poem)	Conditional clause type-1	Unseen Passage
July	3. Winds of Change - Canvas of Soil (Poem)	-	Letter to the Editor
August	4. Vitamin – M - I cannot Remember My Mother (Poem)	Subject-Verb Concord	Essay writing (Descriptive)
September	REVISION	REVISION	REVISION
October	5. The World of Limitless Possibilities - Nine Gold Medals (Poem)	Tenses	Informal invitation
November	6. Twin Melodies - A Friend Found in Music (Poem)	Reported Speech	Email writing (formal)
December	7. Carrier of Words - Words (Poem)	Types of clauses- Noun/relative	Article Writing
January	8. Follow That Dream - Believe in Yourself (Poem)	Integrated Grammar (Practice)	Essay writing (Narrative)
February	REVISION	REVISION	REVISION

HINDI

MONTH	पाठ्यपुस्तक+पूरक पाठ्यपुस्तक	व्याकरण	□□□□□□□□–□□□□
APRIL	•दुख का अधिकार •रैदास के पद	•शब्द और पद •अनुस्वार और अनुनासिक	• अपठित गद्यांश
MAY	गिल्लू	•उपसर्ग-प्रत्यय	•अनुच्छेद लेखन
JUNE	•एवरेस्ट मेरी शिखर यात्रा	•उपसर्ग -प्रत्यय	•अपठित गद्यांश •अनौपचारिक पत्र
JULY	•एवरेस्ट मेरी शिखर यात्रा	•स्वर संधि	•चित्र वर्णन
AUG	•तुम कब जाओगे अतिथि	•स्वर संधि	•संवाद लेखन
SEPT	•रहीम के दोहे	• स्वर संधि	•अनुच्छेद लेखन
OCT	•गीत और अगीत •स्मृति	• विराम चिन्ह	•अनौपचारिक पत्र
NOV	•वैज्ञानिक चेतना के वाहक चंद्रशेखर रामन	•विराम चिन्ह	•अनौपचारिक पत्र
DEC	•□□□□□□□ •□□□□□ □□□□□□□ □□ □□□□□□□	•□□□□ □□ □□□□□□ □□ □□□□□ □□□	• □□□□□ □□□□□
JAN	•□□□□□□□□□ □□ □□□□ •□□□□ □□□□–□□ □□□□ □□□□□□□□□	•□□□□ □□ □□□□□□ □□ □□□□□–□□□	•□□□□□–□□□□
FEB	•नए इलाके में • खुशबू रखते हैं हाथ	•अर्थ की दृष्टि से वाक्य-भेद	• संवाद-लेखन

MATHEMATICS

MONTH	TOPICS	SUB TOPICS TO BE COVERED
APRIL	1. Number System	• Introduction of the chapter • Real numbers and their Decimal Expansion
		• Representing Real numbers on number line
MAY	Continued of Number System 2. Polynomials	• Rationalisation of Irrational numbers • Laws of exponents for Real Numbers • Polynomial of one variable • Zeroes of polynomial
JUNE	Continued of Polynomial 3. Coordinate Geometry	• Remainder Theorem • Factorisation of Polynomial • Algebraic Identities • Cartesian System • Plotting a point in the plane
JULY	4. Linear Equations in Two Variables 5. Introduction to Euclid's Geometry 6. Lines and Angles	• Linear Equation; Solution of Linear Equations • Graph of Linear Equations in two variables • Euclid's Definitions, Axioms and Postulates • Basic terms and definition; Pairs of angles
AUG	Continued of Lines and Angles 7. Triangles	• Parallel lines and transversal • Angle sum property • Some properties of triangles • Congruence of triangles
SEPT	8. Quadrilaterals 9. Circles	• Angle sum property of quadrilaterals • Types of quadrilaterals • Mid-Point Theorem; Converse of MPT • Circle and related Terms
OCT	Continued of Circles 10. Heron's Formula	• Theorems related to Circle • Cyclic Quadrilaterals • Area of triangle by Heron's formula
NOV	Continued of Heron's Formula 11. Surface Area and Volumes	• Application of Heron's Formula • Surface Area of Right Circular Cone • Surface Area of Sphere/Hemisphere
DEC	Continued of Surface Area and Volume	• Volume of Right Circular Cone • Volume of Sphere • Volume of Hemisphere
JAN	Statistics Revision	• Representation of Data (Bar Graph) • Measure of Central Tendency (Histogram) • Frequency Polygon • Revision
FEB	Revision of Syllabus	

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SYLLABUS FOR CLASS-9 (2026-2027)

SCIENCE			
MONTH	**PHYSICS**	**CHEMISTRY**	**BIOLOGY**
APRIL	Ch-: Motion	Ch-: Exploring Mixtures and Their Separation	Ch-: Cell
MAY	Ch-: Motion-continues	Ch-: Exploring Mixtures and Their Separation: continues	Ch-: Cell: continues
JUNE	Ch-: Force and Its Laws	Ch-: Exploring Mixtures and Their Separation: continues	Ch-: Tissues
JULY	Ch-: Force and Its Laws: continues	Ch-: Structure of an Atom	Ch-: Tissues: continues
AUG	Ch-: Work, Energy and simple machine	Ch-: Structure of an Atom: continues	Ch-: Reproduction
SEPT	**Revision**	**Revision**	**Revision**
OCT	Ch-: Work, Energy and simple machine: continues	Ch-: Atoms and Molecules	Ch-: Reproduction: continues
NOV	Ch-: Sound	Ch-: Atoms and Molecules: continues	Ch-: Diversity
DEC	Ch-: Sound	Ch-: Atoms and Molecules: continues	Ch-: Diversity: continues
JAN	Ch-: Earth as a System: Energy (PART)	Revision	Ch-: Earth as a System :, Matter and Life(PART)
FEB	**Revision**	**Revision**	**Revision**

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SYLLABUS FOR CLASS-9 (2026-2027)

SOCIAL SCIENCE

MONTH	HISTORY	CIVICS	GEOGRAPHY	ECONOMICS
April	4:Early Humans & Beginning of civilisation (PART- 1)	Ch 6: Democracy (PART- 1)	Ch 1: Understanding Social Science (PART- 1)	Ch 8: Building Blocks in Economics (PART- 1)
May	4:Early Humans & Beginning of civilisation (PART- 1)	Ch 6: Democracy (PART- 1)	Ch 2: Shaping of the Earth's Surface (PART- 1)	Ch 8: Building Blocks in Economics (PART- 1)
June	4:Early Humans & Beginning of civilisation (PART- 1)	Ch 6: Democracy (PART- 1)	Ch 2: Shaping of the Earth's Surface (PART- 1)	Ch 9: The Price Puzzle: What Drives the Market (PART- 1)
July	Ch 5: State and Society (up to 1000CE) (PART- 1)	Ch 7: Elections (PART- 1)	Ch 3:Atmosphere and Climate (PART- 1)	Ch 9: The Price Puzzle: What Drives the Market (PART- 1)
August	Ch 5: State and Society (up to 1000CE) (PART- I)	Ch 7: Elections (PART- 1)	Ch 3:Atmosphere and Climate (PART- 1)	Ch 9: The Price Puzzle: What Drives the Market (PART- 1)
September	3: Resistance and Resilience 000 CE - 1700 CE) (PART- 2) Revision	Ch 5: Authority (PART- 2) Revision	Ch 3:Atmosphere and Climate (PART- 1) Revision	Ch 9: The Price Puzzle: What Drives the Market (PART- 1) Revision
October	3: Resistance and Resilience 000 CE - 1700 CE) (PART- 2)	Ch 5: Authority (PART- 2)	Ch 1: Oceans and Life (PART- 2)	Ch 6: From Ideas to Startups (PART- 2)
NOVEMBER	h 4: India and the World I 900 BCE - 1200 CE) (PART- 2)	5: Authority (PART- 2)	1: Oceans and Life (PART- 2)	6: From Ideas to Startups (PART- 2)
DECEMBER	h 4: India and the World I 900 BCE - 1200 CE) (PART- 2)	Ch 5: Authority (PART- 2)	Ch 2: Life on Earth (PART- 2)	Ch 7: Smart Ways to Manage Your Finances (PART- 2)
JANUARY	Revision	Revision	Ch 2: Life on Earth (PART- 2)	h 7: Smart Ways to Manage Your Finances (PART- 2)
FEBRUARY	Revision	Revision	Revision	Revision

ARTIFICIAL INTELLIGENCE

Month	
APRIL	**The Three Domains of AI and their applications:**
	Game based on Domains of AI: Rock Paper Scissors, Semantris. Quick Draw **Lab Sessions:** Features of Python Python Script and Interactive Mode Python Character Set Python Statements: Single line and Multiline Statements Python Comments: Single line and Multiline Identifiers and Keywords: Rules for identifiers Variables Rules for naming variables
MAY	**AI Project Cycle:** **Introduction and brief:** • Problem Scoping • Data Acquisition • Data Exploration • Modeling • Evaluation • Deployment **Details:** **Problem Scoping:** Description with an example case-study **Assignment:** scope a problem. Look around and select a theme which interest's student the most. (such as Environment, Agriculture, Traffic, Infrastructure, Health, Security, Education, Digital Literacy, Women-Safety, Transport, Entertainment, Cyber Security, Travel and Tourism, Social welfare, Research etc.) Suggested themes can be: either selected by the students or they can also refer to the 17 Sustainable Development Goals. **4Ws Problem Canvas:** • Who, What, Where, why? **Problem Statement Template** **Data Acquisitions:** **Acquiring Data from reliable resources:** • Survey • Web Scraping • Sensors • Cameras • Observations • API (Application Programing Interface) **Lab Sessions:** **Tokens:** Keywords/Identifiers/Literals/Operators/ Punctuators Escape sequence Comment/expressions/statement/function/ blocks and indentations Variables, operators, expressions Static and Dynamic typing **Data Types in Python:** • Number: int, float, string • Sequence: list, tuple • Sets • None • Maps: Dictionary (introduction only)

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SYLLABUS FOR CLASS-9 (2026-2027)

	ummer Vacation Assignment carry 15 marks and will be used as one of the internal assessments that is PORTFOLIO]
JUNE	**System Map (Data Acquisition Stage):** • Student Performance/The Water Cycle **Lab Sessions:** **Operators in Python:** • Arithmetic • Relational • Logical Assignment
JULY	**Data Exploration** • Visualization Tools for Data Exploration • Bar, Line, Scatter, Tree, Bubble etc. **Modeling:** • Understand and differentiate between AI, ML, and DL. • Explain the differences between **Rule-Based** and **Learning-Based** AI approaches. • **Supervised Learning:** Classification Regression • **Unsupervised Learning:** Clustering Association Dimensionality Reduction • **Reinforcement Learning** **Evaluation:** **Model Evaluation Parameters (introduction)** • Accuracy • Precision • Recall • F1 Score • Model Evaluation Terminologies and conditions: • TP/TN/FP/FN **Lab Sessions:** **Python Basic Programs** • Programs to obtain three numbers and print their sum. • Program to calculate area and perimeter of a rectangle and a square by taking the user input. • program to obtain temperature in Celsius and convert it into Fahrenheit using formula.
AUGUST	**Deployment:** • Methods and Process Common Challenges in Deployment • Develop a basic understanding of how AI models are trained and tested. **AI Ethics:** • Moral Machine game based on AI Ethics **PART-A** **Employability Skills:** **Communication Skills**
	• Communication cycle • Methods of communication • Factors affecting Communications • Effective Communication • English Language Skills **Lab Sessions:** **Python Basic Programs** • Program that accepts radius of a circle and prints its area. • Programs to find average of the marks by taking the user input. • Program to read a number n and print n^2, n^3, n^4 • Program to compute simple interest and compound interest. Programs to red details like name, class, age of a student and then print the details.
SEPTEMBER	**Self-Management Skills** • Knowing own Strength and weakness • Self-Confidence and positive thinking • Personal Hygiene and Self-Grooming **ICT Skills** • What is ICT • Functioning of a computer • Input /output devices • Peripheral devices • Software / Hardware OS
OCTOBER	**PART-B** **Data Literacy:** • Data Pyramid • How to become Data Literate? • Data Literacy Process Framework • Data Privacy and Security • Best Practices for Cyber Security • **Types of Data:** **Quantitative/Numeric:** Discreet (Whole Number) Continuous (Real or Fractional) **Qualitative/Textual:** Nominal (Categorical without any order) Ordinal (Meaningful Order) • **Various Sources of Acquiring Data:** Primary (Direct Source) Secondary (Indirect Source) • **Best Practices of Acquiring data:** Good Data Bad Data • **Features of Data:** Independent Features Dependent Features • **Data Interpretation:** Importance of Data Interpretation • Types of Data Interpretation: Textual DI Tabular DI Graphical DI Data Visualization using Tableau
NOVEMBER	**Maths for AI** • Finding Patterns in number and images

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	• Statistics: How it works in an AI • Applications of statistics • Linear Algebra • Probability • Calculus **Lab Sessions:** **List in Python** • Creating and modification of list List Functions
DECEMBER	**Generative AI:** • Introduction • Definition • Types • Examples • Benefits and Limitations Generative AI Tools
JANUARY	**PART-A** **Internet and Internet Services** **Entrepreneurial Skills** **Green Skills**
FEBRUARY	**REVISION**