

LOYOLA HIGH SCHOOL, PATNA-800010

SYLLABUS FOR CLASS-10 (2025-2026)

ENGLISH		
MONTH	Literature	Reading Grammar and Writing Section
APRIL	1. A Letter to God , 2. Dust of Snow 3. Fire and Ice , 4. A Triumph of Surgery	Descriptive Paragraph Writing , Unseen Passage
MAY	1. Nelson Mandela – Long Walk to Freedom. 2. A Tiger in the Zoo	Determiners
JUNE	1. The Thief's Story	Analytical Paragraph Writing , Subject Verb Agreement
JULY	1. Two Stories About Flying 2. How to Tell Wild Animals 3. The Midnight Visitor	Letter Writing (Editor) Modals
AUG	1. From the Diary of Anne Frank 2. The Ball Poem , 3. Glimpses of India 4. Amanda! , 5. A Question of Trust	Letter Writing (Complaint) Tenses
SEPT	1. Mijbil the Otter 2. The Trees 3. Footprints Without Feet 4. The Making of a Scientist	Letter Writing (Placing Order)
OCT	1. Madam Rides the Bus 2. Fog 3. The Sermon at Benares 4. The Tale of Custard the Dragon 5. The Necklace	Letter Writing (Inquiry)
NOV	1. The Proposal 2. Bholi 3. The Book that Saved the Earth 4. For Anne Gregory	Direct and Indirect Speech
DEC	Revision	Revision
HINDI		
MONTH		
APRIL	स्पर्श + संचयन -बड़े भाई साहब , साखी , डायरी का एक पन्ना	व्याकरण , पदबंध औपचारिक पत्र , अनुच्छेद लेखन
MAY	मीरा के पद	सूचनालेखन ,रचना के आधार पर वाक्य रूपांतरण
JUNE	ततार्रा - वामीराँ कथा , हरिहर काका	मुहावरे , विज्ञापनलेखन
JULY	मनुष्यता , तीसरी कसम के शिल्पकार शैलेन्द्र	समास
AUG	पर्वत प्रदेश में पावस अब कहाँ दूसरे के दुःख से दुःखी होने वाले	लघुकथा लेखन
SEPT	तोप , सपनों के-से दिन	ई-मेल लेखन
OCT	कर चलें हम फिदा , आत्मत्राण	अपठित गद्यांश
NOV	गिन्नी का सोना , झेन की देन	पुनरावृत्ति
DEC	टोपी शुक्ला , कारतूस	पुनरावृत्ति

MATHEMATICS		
APRIL	REAL NUMBERS POLYNOMIALS	Euclid's division lemma, Fundamental theorem of Arithmetic. Proof of Irrationality Decimal representation of rational numbers in terms of terminating/non-terminating recurring decimals. Zeros of a polynomial. Relationship between zeros and coefficients of quadratic polynomials. Statement and simple problems for polynomials with real coefficients.
MAY	CONTINUED OF POLYNOMIALS TRIGONOMETRY INTRODUCTION TO TRIGONOMETRY	Trigonometric ratios of an acute angle of right-angled triangle. Values of trigonometric ratios of 30°, 45°, 60° and 90°
JUNE	CONTINUED TRIGONOMETRIC IDENTITIES PAIR OF LINEAR EQUATIONS IN TWO VARIABLES	Proof and applications of identity $\sin^2 A + \cos^2 A = 1$ etc , Pair of linear equations in two variables and graphical method of their solution, consistency/inconsistency , Algebraic conditions for number of solutions. Solution of a pair of linear equations in two variables – by substitution, by elimination. Simple situational word problems
JULY	TRIANGLES COORDINATE GEOMETRY	Definitions, examples, counter example of Similar triangles. Proof of different theorems. Concepts of coordinate geometry, graphs of linear equations , Distance formula , Section formula
AUG	QUADRATIC EQUATIONS ARITHMETIC PROGRESSION	Standard form of a quadratic equation. Solutions of quadratic equation by using quadratic equation. Relationship between discriminant and nature of roots. Derivation of the nth term of AP
SEPT	CONTINUED OF ARITHMETIC PROGRESSION , CIRCLES INTRODUCTION OF HEIGHT AND DISTANCES	Sum of the first n terms of AP , Application in solving daily life problems , Proving of theorems related to circle. Simple problems on height and distances.
OCT	CONTINUED OF HEIGHT AND DISTANCES MENSURATION AREAS RELATED TO CIRCLES	Angles of elevation/ depression should be only 30°, 45°, 60° , Problems based on area of circle, area of sectors and segments of a circle Problems based on areas and perimeter/ circumference of the circle.
NOV	SURFACE AREAS AND VOLUMES STATISTICS PROBABILITY	Surface area and volumes of combination of any two shapes. Conversion of one solid shape into another type of shape. Mean, Median and mode of grouped data, Simple problems on single events
DEC	REVISION OF SYLLABUS	

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SOCIAL SCIENCE		
APRIL	1. The Rise of Nationalism in Europe: 1. Power Sharing : (Geography) Chapter 1: Resources and Development Eco - Development	PART-B The French Revolution and the Idea of the Nation. The Making of Nationalism in Europe Belgium and Sri Lanka Majoritarianism in Sri Lanka Accommodation in Belgium Forms of Power Sharing Types, land as a resource, soil types and distribution , land degradation and conservation methods Introduction to the chapter Features of Developmental Goals Income and other Goals , National Development Total Income , Per Capita Income
MAY	1. The Rise of Nationalism in Europe Federalism: Geography (ch-2) Forest and Wildlife Resources Eco - Development	The Age of Revolutions: 1830-1848 The Making of Germany and Italy What is Federalism? What Makes India a Federal Country? How is Federalism Practiced Types and distribution of forest and wildlife resources , Income and other criteria Public Facilities , Human Development Report Sustainable Development
JUNE	1. The Rise of Nationalism in Europe 3. Gender and Politics Geography (ch-3) Water Resources Eco – Sectors of the Indian Economy	Visualizing the Nation , Nationalism and imperialism Gender and Politics , Religion, Communalism, and Politics , Caste and Politics. Multipurpose projects, rainwater harvesting Introduction to the chapter Primary Sector, Secondary Sector, Tertiary Sector
JULY	2. Nationalism in India: 6. Political parties. Geography (ch-4) Agriculture Eco – Sectors of the Indian Economy	The First World War Khilafat Movement. Non-Cooperation Movement Differing Strands within the Movement Towards Civil Disobedience The Sense of Collective Belonging Why Do We Need Political Parties? How Many Parties Should We Have? National Political Parties Types of farming, technological and institutional reforms, Gross Domestic Product Comparison between the sectors – Production and employment, Underemployment Disguised Unemployment How to create more employment?

AUG	2. Nationalism in India 6. Political parties. Geography (ch-5) Minerals and Energy Resources Eco – Sectors of the Indian Economy Money and Credit	Differing Strands within the Movement Towards Civil Disobedience The Sense of Collective Belonging. State Parties Challenges to Political Parties How Can Parties Be Reformed? Types of minerals, conservation, types of Power resources , Organised and Unorganised Sector Private and Public Sector How to protect workers in the unorganised sector? Introduction to the chapter – Barter System of exchange , Modern forms of money , Cheque payment
SEPT	3. The Making of a Global World: 7. Outcomes of Democracy... Geography (ch-6) Minerals and Energy Resources Eco – Money and Credit	.The Pre-modern world • The Nineteenth century (1815-1914) .How Do We Assess Democracy's Outcomes? • Accountable, Responsive, and Legitimate Government , Conventional and non Conventional resources, distribution and utilization and conservation , Loan Activities of Banks Two different credit situations Terms of Credit , Sources of credit Self Help Groups and Grameen Banks
OCT	5. Print Culture and the Modern World: 7. Outcomes Of Democracy Geography(ch-6) Manufacturing Industries Eco - Globalisation	The First Printed Books Print Comes to Europe The Print Revolution and its Impact The Reading Mania Economic Growth and Development Reduction of Inequality and Poverty Accommodation of Social Diversity .Dignity and Freedom of the Citizens Contribution of Industries to the national economy, industrial pollution , Introduction to the chapter Multi National Companies , Interlinking production across countries
NOV	5. Print Culture and the Modern World Geography (ch-6) Manufacturing Industries Eco - Globalisation	The Nineteenth Century India and the World of Print Religious Reform and Public Debates New Forms of Publication Measures to control environmental degradation Foreign Trade , Factors affecting Globalisation
DEC	REVISION (PRE-BOARD=1)	REVISION (PRE-BOARD-1)

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SYLLABUS FOR CLASS-10 (2025-2026)

ARTIFICIAL INTELLIGENCE		
APRIL	PART-B - Subject Specific Skills Unit 1: Session1: Concept of AI:Types of Human Intelligence Session 2 :- AI, ML and DL AI Domains and Technologies Data Science , Computer Vision Natural Language Processing	PART-B Python Basics Tokens: Keywords/Identifiers/Literals/Operators/Punctuators Escape sequence/Comment/expressions/statement/function/blocks and indentations Variables and assignment , Static and Dynamic typing
MAY	Session3: AI Applications: Real Life Applications of AI	Basic Programs of Python: Welcome Message Program Area of a rectangle , Conversion of miles to KM
JUNE	Session 4: AI Ethics with examples PART-D - Holiday Assignments (15 Marks)	Data Types Numbers/String/List/Tuple/Dictionary
JULY	Unit 2: Session 1: AI Project Cycle , Various stages Session 2: Problem Scoping and 4W Canvas Session 3: Data Acquisition	Programs to obtain three numbers and print their sum Operators in Python Program to calculate BMI (Body Mass Index) Program to find cube of a number
AUG	Session 4: Data Exploration with Data Visualisation Tools Outliers Session 5: Modelling: Rule Based /Learning Based /Supervised/ Unsupervised and Reinforcement Learning Supervised: Classifications/Regression Unsupervised: Clustering/Association/ Dimensionality Reduction Reinforcement: Positive/Negative	Programs to input values in KM and convert in miles Program to input values in Tons and convert in quintals and KG Programs to write a small poem Programs to input two numbers and swap them SPython conditions and loops If/if-else/for /while loop Operators in/not in Range () function
SEPT	PART-A- Employability Skills: UNIT-1 - Communication Skills Session 1: Methods and types of communication Session 2: Feedback in Communications Session 3: Principles and Barriers of Effective Communications	Jupyter Notebook and Library Numpy , Pandas , Matplotlib , OpenCV BNN (Biological Neural Network) and ANN (Artificial Neural Network) KNN (K-Nearest Neighbours)
OCT	Basic Writing Skills UNIT 2: Session 1: Self-Management Skills Stress Management , Self-Awareness Self-Motivation , Self-Regulation Time Management	Evaluation: Model Evaluation Metrics: CNN (Convolutional Neural Network) Confusion Matrix
NOV	UNIT 3: Basic ICT Skills OS/Computer Maintenance UNIT 4: Entrepreneurial Skills UNIT 5: Green Skills	Concepts of NLP: Chatbots and Smartbots Bag of Words Algorithm PART-C- Practical Test (15 marks)
DEC	REVISION	REVISION

SCIENCE		
PHYSICS		
APRIL	LIGHT: REFLECTION AND REFRACTION	Reflection of light by curved surface. Images formed by spherical mirrors. Terms related to spherical mirror.
MAY	CONTINUED LIGHT: REFLECTION AND REFRACTION	Refraction of light. Laws of refraction of light. Refraction of light by spherical lens. Lens formula
JUNE	CONTINUED LIGHT: REFLECTION AND REFRACTION	Image formed by spherical lenses. Magnification Power of lens.
JULY	HUMAN EYE AND COLOURFUL WORLD	Functioning of lens in human eye. Defects of vision and their corrections Refraction of light through a prism. Dispersion of light
AUG	HUMAN EYE AND COLOURFUL WORLD ELECTRICITY	Scattering of light. Application in daily life. Electricity. Potential difference. Ohm's law Resistance
SEPT	CONTINUED ELECTRICITY	Series combination of resistors. Parallel combination of resistors. Heating effect of current. Electric power.
OCT	MAGNETIC EFFECTS OF ELECTRIC CURRENT	Magnetic field. Field lines. Magnetic field due to a current carrying conductor.
NOV	CONTINUED MAGNETIC EFFECTS OF ELECTRIC CURRENT	Magnetic field due to a current carrying coil. Solenoid. Fleming's left-hand rule.
DEC	REVISION OF ENTIRE SYLLABUS	

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CHEMISTRY		
APRIL	1. Chemical Reactions and Equations	-Chemical reactions and properties - Representation of chemical reaction as in the form of chemical equations -Balancing of chemical equations -Role of reactants and products and their physical states in a chemical equation. -Types of chemical reactions a. combination reaction b. Decomposition reaction c. Displacement reaction
MAY	1. Chemical reactions and equations Continues 2. Acids, Bases and Salts	-Types of chemical reactions d. Double displacement reaction (precipitation reactions and neutralization reaction) e. Redox reactions -Redox reactions in daily life a. Rancidity b. Corrosion of metal - Indicators
JUNE	2. Acids, Bases and Salts: Continues	-Classification of acids -Chemical properties of acids
JULY	2. Acids, Bases and Salts : Continues	-Classification of bases -Chemical properties of basis -Neutralization reactions in daily life -Classification of salts Preparation Properties and Uses of some salts , common salt, baking soda, washing soda, bleaching powder and Plaster of Paris
AUG	2. Acids, Bases and Salts: Continues 3. Metals and Non-Metals	-Uses of acids are bases -Hydrous and anhydrous salts - Water of crystallization -Differences between metals and nonmetals on the basis of their physical properties Uses of some common metals and nonmetals
SEPT	3. Metals and Non-Metals : Continues Periodic Test -1	- Chemical properties of metals - Chemical properties of nonmetals
OCT	3. Metals and Non-Metals : Continues 4. Carbon and compounds	- Extraction of metals - Prevention from corrosion of metals Alloys and their uses - Unique properties of Carbon - Allotropes of Carbon - Hydrocarbons Classification and nomenclature of hydrocarbons Derivative of hydrocarbons
NOV	4. Carbon and compound: Continues	- Chemical properties of hydrocarbons and derivatives of hydrocarbons Preparation and properties of ethanol and ethanoic acid -Soaps and detergents.
DEC	REVISION	REVISION

BIOLOGY		
APRIL	1. Life processes	Basic concept of a. Nutrition in plants and animals Photosynthesis in plants Holozoic nutrition in humans b. Respiration in plants and animals Respiratory structures in plants
MAY	1. Life processes Continues	Respiratory system in humans c. Transport in plants and animals Vascular system in plants
JUNE	1. Life processes Continues	Circulatory system in humans Blood circulatory system and Lymphatic system
JULY	1. Life processes Continues 2. Control and coordination in plants and animals	d. Excretion in plants and animals Excretory system in humans Tropic movements in plants
AUG	2. Control and coordination in plants and animals	Plant hormones - types and functions Nervous system and human beings Voluntary involuntary and reflex action
SEPT	2. Control and coordination in plants and animals Periodic test- 1	Chemical coordination by hormones in humans
OCT	3. How do organisms reproduce	Reproduction in animals and plants Asexual mode of reproduction Sexual mode of reproduction in plants Sexual mode of reproduction in animals Reproductive health Need and methods of family planning Prevention from STDs and AIDS
NOV	4. Heredity 5. Our environment	Heredity Mendel's laws for inheritance of traits Sex determination Ecosystem and environmental problems Ozone layer depletion Biodegradable and non-biodegradable waste - waste management
DEC	REVISION	REVISION