

LOYOLA HIGH SCHOOL, PATNA-800010

SYLLABUS FOR CLASS-9 (2025-2026)

ENGLISH				
MONTH	Beehive	Moments	Reading And Writing	Grammar
APRIL – JUNE	a. The Fun They Had The Road Not Taken (Poem)	a. The Lost Child b. The Adventures of Toto	A. Unseen passages for comprehension- factual, discursive	Determiners
JULY	a. The Sound of Music b. Wind (Poem) c. Rain on the Roof (Poem) d. The Little Girl	Iswaran 'The Story Teller'	B. Paragraph Writing	Modals
AUG	a. A Truly Beautiful Mind b. The Lake Isle of Innisfree (Poem) c. The Snake and the Mirror	In the Kingdom of Fools.	C. Diary Entry	Subject Verb Concord
SEPT	a. A Legend of the Northland b. My Childhood	The Happy Prince		
OCT/ NOV	a. No Men are Foreign	The Last Leaf	A. Story Writing	Tense
DEC	a. Reach for the Top b. On Killing a Tree (Poem)	a. A House is not a Home		Reported Speech- Commands, Requests, Statements, Questions
JAN	a. A Slumber Did My Spirit Seal (Poem) b. Kathmandu		A. Writing a Diary	A.. Integrated Grammar Practice.
FEB	a. If I were You	a. The Beggar		B. Integrated Grammar Exercise.
HINDI				
	स्पर्श + संचयन		व्याकरण	
APRIL	* दुःख का अधिकार , * रैदास के पद		* शब्द और पद , * अनुस्वार और अनुनासिक	
MAY	* गिल्लू		* उपसर्ग और प्रत्यय	
JUNE	* एक्सेस्ट मेरी शिखर यात्रा		* अपठित गद्यांश , * अनुच्छेद लेखन	
JULY	* एक्सेस्ट मेरी शिखर यात्रा		* अनौपचारिक पत्र	
AUG	* तुम कब जाओगे अतिथि		* संवाद लेखन	
SEPT	* रहीम के दोहे		* स्वर संधि	
OCT	* गीत-अगीत , * स्मृति		* स्वर संधि	
NOV	* वैज्ञानिक चेतना के वाहक चंद्रशेखर वेंकट रामन्		* विराम चिन्ह	
DEC	* अग्निपथ , * कल्लू कुम्हार की उनाकोटी		* चित्र वर्णन	
JAN	* शुक्रतारे के समान , * मेरा छोटा-सा निजी पुस्तकालय		* अर्थ की दृष्टि से वाक्य भेद	
FEB	* नए इलाके में-- , * खुशबू रचते हैं हाथ		* अर्थ की दृष्टि से वाक्य भेद , अपठित गद्यांश	

MATHEMATICS		
MONTH	TOPICS TO BE COVERED	SUB TOPICS TO BE COVERED
APRIL	NUMBER SYSTEM	Introduction of the chapter. Real numbers and their Decimal Expansion. Representing Real numbers on the Number Line.
MAY	CONTINUED OF NUMBER SYSTEM POLYNOMIALS	Polynomial of one variable. Zeroes of polynomial.
JUNE	CONTINUED OF POLYNOMIALS COORDINATE GEOMETRY LINEAR EQUATIONS IN TWO VARIABLES	Remainder theorem Factorisation of polynomials. Algebraic identities Cartesian System. Plotting a point in the plane. Linear equation. Solution of linear equation. Graph of linear equation in two variables
JULY	CONTINUED OF LINEAR EQUATIONS IN TWO VARIABLES INTRODUCTION TO EUCLID'S GEOMETRY LINES AND ANGLES	Euclid's definitions, axioms and postulates. Basic terms and definition. Pairs of angles
AUG	CONTINUED LINES AND ANGLES TRIANGLES	Parallel lines and transversal Angle sum property Congruency of triangles Some properties of triangle Criteria of congruency of triangles.
SEP	QUADRILATERALS CIRCLES	Angle sum property of quadrilaterals. Types of quadrilaterals Mid- Point Theorem Circles and related terms Angle subtended by a chord at a point.
OCT	CONTINUED CIRCLES HERON'S FORMULA	Theorems related to circle Cyclic quadrilaterals Area of triangle by Heron's formula
NOV	CONTINUED OF HERON'S FORMULA SURFACE AREA AND VOLUMES	Application of heron's formula in finding areas of quadrilaterals. Surface area of right circular cone Surface area of sphere.
DEC	CONTINUED SURFACE AREA AND VOLUMES STATISTICS	Volume of right circular cone Volume of sphere Representation of data Measures of central tendency
JAN	CONTINUED STATISTICS	Histogram Frequency polygon
FEB	REVISION OF SYLLABUS	

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SCIENCE			
MONTH	PHYSICS	CHEMISTRY	BIOLOGY
APRIL	<u>Chapter : MOTION</u> Distance and displacement, velocity; uniform and non uniform motion along a straight line; Acceleration ,distance-time and velocity-time graphs for uniform motion and uniformly accelerated motion	MATTER IN THE SURROUNDINGS definition of matter- solid, liquid and gas. Characteristic shape, volume, density.	Cell - Cell as a basic unit of life; prokaryotic and eukaryotic cells, Multi cellular organisms; cell membrane and cell wall, cell organelles and cell inclusions: vacuoles, chloroplast, mitochondria, endoplasmic reticulum, Golgi apparatus; Nucleus, chromosome basic structure, number
MAY	<u>Chapter : MOTION</u> Distance and displacement, velocity; uniform and non uniform motion along a straight line; Acceleration ,distance-time and velocity-time graphs for uniform motion and uniformly accelerated motion, Numerical based on the physical quantities .	MATTER IN THE SURROUNDINGS definition of matter- solid, liquid and gas. Characteristics shape, volume, density.	Cell - Cell as a basic unit of life; prokaryotic and eukaryotic cells, Multi cellular organisms; cell membrane and cell wall, cell organelles and cell inclusions: vacuoles, chloroplast, mitochondria, endoplasmic reticulum, Golgi apparatus; Nucleus, chromosome basic structure, number
JUNE	<u>Chapter : MOTION</u> Derivation of Equations of motion by Graphical method; Numerical based on the 3 equations of motion , elementary idea of uniform circular motion	MATTER IN THE SURROUNDINGS Change of state-melting(absorption of heat) freezing, evaporation (Cooling by evaporation) condensation, sublimation	Cell - Cell as a basic unit of life; prokaryotic and eukaryotic cells, Multi cellular organisms; cell membrane and cell wall, cell organelles and cell inclusions: vacuoles, chloroplast, mitochondria, endoplasmic reticulum, Golgi apparatus; Nucleus, chromosome basic structure, number
JULY	<u>Chapter : FORCE AND NEWTON'S LAW:</u> Force and motion, Newton's laws of motion, inertia of a body, inertia and mass. Momentum, force and acceleration ,Impulse Action and reaction forces	IS MATTER AROUND US PURE? Elements ,compounds and mixtures ,homogeneous heterogeneous Mixture	Tissues, Organs, Organ System, Organism Structure and functions of animal and plant tissues (only four types of tissues in animals; meristematic and permanent tissues in plants)
AUG	<u>Chapter: GRAVITATION</u> Gravitation; universal law of gravitation, force of gravitation of the earth(gravity), acceleration due to gravity; mass and weight; free fall.	IS MATTER AROUND US PURE? Elements ,compounds and mixtures ,homogeneous/heterogeneous Mixture Colloids and suspension	Tissues, Organs, Organ System, Organism Structure and functions of animal and plant tissues (only four types of tissues in animals; meristematic and permanent tissues in plants)

SEPT	REVISION	REVISION	REVISION
OCT	Chapter : GRAVITATION Floatation: Thrust and pressure. Archimedes' principle, buoyancy.	ATOMS AND MOLECULES; Particle nature, basic units; atoms and molecules	Why do we fall ill .
NOV	Chapter : WORK POWER AND ENERGY: Work done by a force, energy, power: Work, energy and power : kinetic and potential energy; law of conservation of energy	Law of constant proportion. Atomic and molecular masses.	Why do we fall ill .
DEC	Chapter : SOUND Nature of Sound and propagation in various media, speed of sound Range	STRUCTURE OF THE ATOM; electrons, protons and neutrons; Valency , chemical formula of common compounds Isotopes and isobars	Improvement in Food Resources Plant and animal breeding and selection for quality improvement and management: Use of fertilizers and manures; Protection from pests and diseases; Organic farming
JAN	SOUND: ultrasound; reflection of sound; echo & Reverberation . Numerical based on it.	STRUCTURE OF THE ATOM; electrons, protons and neutrons; Valency , chemical formula of common compounds Isotopes and isobars	Improvement in Food Resources Plant and animal breeding and selection for quality improvement and management: Use of fertilizers and manures; Protection from pests and diseases; Organic farming
FEB	REVISION	REVISION	REVISION

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SOCIAL SCIENCE		
MONTH	TOPIC	SUB-TOPIC
April	I. The French Revolution: • 1. What is Democracy? Why Democracy? Geo Ch1: India - Size and Location ECO – The Story of Village Palampur	: • French Society During the Late Eighteenth Century • The Outbreak of the Revolution • France Abolishes Monarchy and Becomes a Republic • What is Democracy? • Features of Democracy • Why Democracy? Location,Size, India and the World Introduction to the chapter Production , Factors of Production Features of Land , Pattern of crops grown Multiple Cropping
May	The French Revolution: • 1. What is Democracy? Why Democracy? Geo Ch1: India - Size and Location Ch 2 : Physical Features of India Eco – The Story Of Village Palampur	• Did Women have a Revolution? • The Abolition of Slavery • The Revolution and Everyday Life • Broader Meanings of Democracy India's Neighbours Map Work The Himalayan Mountains Modern farming techniques Will the land sustain? Land distribution between farmers
June	II. Socialism in Europe and the Russian Revolution: II.Constitutional Design Geo- Ch 2 : Physical Features of India Eco – The Story of Village Palampur	• The Age of Social Change • The Russian Revolution • Democratic Constitution in South Africa Longitudinal divisions of the Himalayas Who will provide the labour? Capital needed in farming. Sale of surplus farm products Non-Farm activities in Palampur
July	II. Socialism in Europe and the Russian Revolution: II.Constitutional Design Geo- Ch 2 : Physical Features of India Eco – People as Resource	The February Revolution in Petrograd What changed after October? • Why do we need a constitution? • Making of the Indian Constitution • Guiding Values of the Indian Constitution The Northern Plains - Its classification , The Peninsular Plateau,The Indian Desert, The Coastal Plains, The Islands • Introduction to the chapter • Human Capital • Human Capital Formation • Virtuous Cycle • Vicious Cycle
August	II. Socialism in Europe and the Russian Revolution III. Electoral Politics Geo - Ch3 - Drainage Eco – People as Resource	• The Global Influence of the Russian Revolution and the USSR • Why Elections? Introduction,The Himalayan Rivers - The Indus River System,The Ganga & the Brahmaputra River System, The Peninsular Rivers,Map Work Economic Activities Non – Economic Activities Primary, Secondary and Tertiary Sector Division of Labour

September	III. Nazism and the Rise of Hitler: III. Electoral Politics Geo - Ch3 - Drainage Eco – People as Resource	Birth of the Weimar Republic • Hitler's Rise to Power • What is our System of Elections? • What makes elections in India democratic? Lakes ,Role of rivers in the economy,River Pollution Map Work Revision – Ch-1,2,3 Quality of Population , Education , Health ,Unemployment Revision of Chapter 1 and 2
October	III. Nazism and the Rise of Hitler: IV. Working of Institutions: Geo - Ch 4 - Climate Eco – Poverty as a Challenge	• The Nazi Worldview • Youth in Nazi Germany How is the major policy decision taken? • Parliament Introduction,Climatic controls,factors affecting India's climate, Coriolis Force,the Indian Monsoon Introduction to the chapter Dimensions of poverty Famine , Social Exclusion Vulnerability , Poverty Line
November	III. Nazism and the Rise of Hitler: IV.. Working of Institutions Geo - Ch 4 – Climate Eco – Poverty as a challenge	• Ordinary People and the Crime against Humanity. • Political Executive • The Judiciary The Seasons - Winter,Summer,Advancing Monsoon Season & Retreating Monsoon Season Poverty Estimates Vulnerable Groups Inter State Disparity Global poverty Scenario Causes of poverty Anti Poverty Measures
December	IV. Livelihoods, Economies and Societies Forest Societies and Colonialism V. Democratic Rights Geo - Ch 4 - Climate Geo - Ch 5 - Natural Vegetation & Wildlife (only Map Work) Eco – Food Security in India	.Why Deforestation? • The Rise of Commercial Forestry • Life without Rights • Rights in a Democracy Distribution of rainfall, Monsoon as a Unifying bond, Map Work(Ch 4 & 5) Dimensions of Food Security Who are food insecure? Buffer Stock Public Distribution System
January	IV. Livelihoods, Economies and Societies Forest Societies and Colonialism V. Democratic Rights Geo - Ch 6 –Population Eco – Food Security in India	• Rebellion in the Forest • Forest Transformations in Java • Rights in the Indian Constitution • Expanding scope of rights Population Size & Distribution,India's Population Distribution by Density,Population Growth ,Processes of Population Change, NPP ,NPP 2000 & Adolescents Current Status of Public Distribution System Drawbacks of PDS Cooperatives
February	REVISION	REVISION

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ARTIFICIAL INTELLIGENCE		
Month	Topic (Theory) (PART-B)	Practical (PART-B)
April	Subject Specific Skills/Vocational Skills AI definition and meaning -Working of a machine through instruction -Working of human through human intelligence -Weak and narrow AI -Generative AI Smart Home (video introduction) IoT Domains of AI Applications of AI in real life Game based domains of AI -Rock, pepper and Scissors(DS) -Semantris(NLP) -QuickDraw(CV) History of AI	Python basics Interactive mode Script mode 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 Numbers, String, List Input /output in Python Statement and comments in Python
May	Future of AI Introduction of AI Project Cycle Stages of AI Project Cycle Problem Scoping Identifying stake holders 4Ws Canvas Problem Statement Template Data Acquisition	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.
June	System Map Data Exploration Data Visualisation Techniques (ways to visualize data) PART-D Assignment /Project Work , 15 programs of 15 marks	-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 .
July	Modelling , Evaluation , Deployment AI Ethics , AI Bias , AI Access Data Literacy Data Security and Privacy Cyber Security Practices	-Program to compute simple interest and compound interest. -Programs to red details like name, class, age of a student and then print the details.
Aug	PART-A Employability Skills: Communication Skills Communication cycle Methods of communication Factors affecting Communications Effective Communication English Language Skills	List in Python - Introduction - Operations - Build in Functions Such as Len () , Append () , Count () etc.
Sep	Self-Management Skills Knowing own Strength and weakness Self-Confidence and positive thinking Personal Hygiene and Self-Grooming	Python Programs Based on Variables date type , operations loop and conditional statement .
Oct	ICT Skills What is ICT Functioning of a computer	PART-B Types of Data , Qualitative Data Quantitative Data , Discreet and continuous data

	Input /output devices , Peripheral devices , Software / Hardware , OS	Data processing techniques Introduction Tableau
Nov	Internet and Internet Services	PART-B Maths in AI Finding Patterns in number and images Statistics: How it works in an AI Applications of statistics , Linear Algebra
Dec	Entrepreneurial Skills Green Skills	Probability Calculus
Jan	PART-B Generative AI , Introduction, Definition Types , Examples , Benefits and Limitations , Generative AI Tools	PART-C Practical Test of Python Programs of 15 marks
Feb	Revision	Revision