

SYLLABUS FOR CLASS IX

SR. No.	Subjects	Contents
SCHOLASTIC SUBJECTS		
1.	Mathematics	<ul style="list-style-type: none"> • Number Systems (Real Numbers, Rational and Irrational Numbers) • Geometry (Triangles, Circles, Constructions) • Trigonometry • Algebraic Expressions and Equations • Quadratic Equations and Polynomials • Statistics and Probability
2.	Science	<ul style="list-style-type: none"> • Cell Biology and Genetics • Chemistry - Chemical Reactions, Periodic Table • Astronomy - Solar System, Stars, and Cosmology • Physics - Motion, Forces, and Energy • Earth Science - Geology, Climate, Natural Disasters • Environmental Science - Pollution, Conservation, and Sustainability
3.	Social Science	<ul style="list-style-type: none"> • Ecosystems and Biodiversity Conservation • Environmental Pollution and Solutions • Waste Management and Recycling • Climate Change and Global Warming • Renewable Energy Sources • Sustainable Development Goals (SDGs)
4.	English	<ul style="list-style-type: none"> • Reading Comprehension and Critical Analysis • Grammar (Advanced Parts of Speech, Tenses, Voice) • Literature Analysis and Appreciation • Vocabulary Building and Word Usage • Creative Writing (essays, stories, poems) • Effective Communication Skills and Public Speaking
5.	Hindi	<ul style="list-style-type: none"> • भाषा और विचार • काल एवं कारक • अविकारी शब्द • पदबंध • अलंकार • अपठित गद्यांश एवं पद्यांश
CO-SCHOLASTIC SUBJECTS		
5.	STEM	<ul style="list-style-type: none"> • Robotics and Advanced Programming Concepts • Advanced Physics Concepts (Electricity, Magnetism) • Innovations in Technology • Engineering Design and Prototyping • Scientific Research and Experimental Design • Environmental Engineering and Sustainable Solutions
6.	General Knowledge	<ul style="list-style-type: none"> • World Geography, Countries, and Capitals • Current Affairs for Students • Space Exploration and Astronomy • Historical Events and Famous Personalities • Cultural Diversity and Traditions • General Knowledge Questions from Various Fields
7.	Artificial Intelligence	<ul style="list-style-type: none"> • Programming Concepts (Advanced programming language) • Cybersecurity and Encryption • Machine Learning and Artificial Intelligence • Data Structures and Algorithms • Web Development (HTML, CSS, JavaScript, Backend Basics) • Database Management and SQL
8.	Aptitude & Reasoning	<ul style="list-style-type: none"> • Patterns, Series, and Sequences • Mathematical Reasoning (algebraic reasoning, word problems) • Data Interpretation and Analysis • Logical Reasoning (complex puzzles, deductive reasoning) • Critical Thinking and Analytical Skills • Problem-solving Strategies