SYLLABUS FOR CLASS VII

SR. No.	Subjects	Contents	
		SCHOLASTIC SUBJECTS	
1.	Mathematics	• Number Systems (Rational Numbers, Irrational Numbers) • Geometry (Angles, Circles, Constructions) • Rational and Irrational Numbers	• Algebraic Expressions and Equations • Data Handling (Statistics, Probability) • Exponents and Powers
2.	Science	• Cell Biology and Microorganisms • Chemistry - Elements, Compounds, and Mixtures • Basics of Astronomy (Solar System, Stars)	• Basics of Physics (Motion, Energy, Sound) • Earth Science - Geology and Earth's Processes • Genetics and Heredity
3.	SST	• Ecosystems and Conservation • Environmental Pollution and Remediation • Renewable and Non-Renewable Energy Sources	• Climate Change and Global Warming • Biodiversity and Endangered Species • Sustainable Development
4.	English	• 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
5.	Hindi	• समीकरण • कृदंत और धातु • अलंकार	• वर्णमाला और उनका सही उच्चारण • निबंध लेखन • कहानी का सार

		CO-SCHOLASTIC SUBJECTS		
6.	STEM	• Robotics and Advanced Programming Concepts • Electricity and Circuits (advanced concepts) • Innovations in Technology	•	Engineering Design and Prototyping Scientific Research and Experimental Design Environmental Engineering and Sustainable Solutions
7.	General Knowledge	• World Geography, Countries, and Capitals • Current Affairs for Children • Space Exploration and Astronomy	• • •	Historical Events and Famous Personalities Cultural Diversity and Traditions General Knowledge Questions from Various Fields

8.	AI/Computer	• Programming Concepts (Introduction to a programming language) • Cybersecurity and Ethical Hacking • Introduction to Artificial Intelligence and Machine Learning	• • •	Algorithms, Flowcharts, and Pseudocode Web Development Basics (HTML, CSS, JavaScript) Database Management and SQL
9.	Aptitude & Reasoning	• 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