SYLLABUS FOR CLASS X

SR. No.	Subjects	Contents
	SCHOLASTIC SUBJECTS	
1.	Mathematics	• Real Numbers and Polynomials • Coordinate Geometry and Trigonometry • Circles and Constructions • Quadratic Equations and Arithmetic Progressions • Statistics and Probability • Quadrilaterals and Areas of Plane Figures
2.	Science	• Biology - Genetics, Evolution, Human Health and Diseases • Chemistry - Chemical Kinetics, Organic Chemistry, Environmental Chemistry • Astronomy - Celestial Mechanics, Cosmology • Physics - Optics, Electromagnetism, Modern Physics • Earth Science - Natural Resources and Conservation • Environmental Science - Biodiversity Conservation, Climate Change
3.	Social Science	• Ecosystems and Conservation • Environmental Pollution and Solutions • Waste Management and Recycling • Climate Change and Global Warming • Renewable Energy Sources • Sustainable Development Goals (SDGs)
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 and Public Speaking
5.	Hindi	• रचनात्मक लेखन • काव्य रचनाएँ • समीक्षा लेखन • संवाद लेखन • समास और उसका उपयोग • वर्णनात्मक लेखन

CO-SCHOLASTIC SUBJECTS			
6.	STEM	• 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
7.	General Knowledge	• 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
8.	Artificial Intelligence	• Programming in a High-Level Language (e.g., Python, Java) • Cybersecurity and Ethical Hacking • Database Management and SQL	• Data Structures and Algorithms • Web Development (HTML, CSS, JavaScript, Backend Basics) • Artificial Intelligence and Machine Learning Basics
9.	Aptitude & Reasoning	• Number Systems and Algebraic Expressions • Mathematical Reasoning (algebraic reasoning, word problems) • Data Interpretation and Analysis	• Logical Reasoning (complex puzzles, deductive reasoning) • Critical Thinking and Analytical Skills • Problem-solving Strategies