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YOUR DEMAND  
FOR QUALITY  
ASSESSMENT  
& STRONG  
FOUNDATION



# SYLLABI & STUDY MATERIAL

## Class I-XII

### SCHOLASTIC SUBJECTS

Olympiad  
**BOF**  
BHARAT OLYMPIAD  
FOUNDATION  
MATHEMATICS  
Classes I-X  
01

Olympiad  
**BOF**  
BHARAT OLYMPIAD  
FOUNDATION  
SCIENCE  
Classes I-X  
02

Olympiad  
**BOF**  
BHARAT OLYMPIAD  
FOUNDATION  
SOCIAL SCIENCE/EVS  
Classes I-X  
03

Olympiad  
**BOF**  
BHARAT OLYMPIAD  
FOUNDATION  
ENGLISH  
Classes I-XII  
04

### CO-SCHOLASTIC SUBJECTS

Olympiad  
**BOF**  
BHARAT OLYMPIAD  
FOUNDATION  
GENERAL KNOWLEDGE  
Classes I-X  
05

Olympiad  
**BOF**  
BHARAT OLYMPIAD  
FOUNDATION  
APTITUDE & REASONING  
Classes III-XII  
06

Olympiad  
**BOF**  
BHARAT OLYMPIAD  
FOUNDATION  
S T E M  
Classes III-XII  
07

Olympiad  
**BOF**  
BHARAT OLYMPIAD  
FOUNDATION  
AI/COMPUTER  
Classes III-XII  
08

## SYLLABUS FOR CLASS I

SI No.	Scholastic Subjects	Contents
1.	Mathematics	<ul style="list-style-type: none"> <li>Numbers 1-100 and Number Patterns</li> <li>Basic Shapes and their Properties</li> <li>Patterns and Sequences</li> </ul>
2.	Science	<ul style="list-style-type: none"> <li>Living and Non-living Things</li> <li>Plant Life Cycle</li> <li>Seasons and Weather</li> </ul>
3.	Social Science/EVS	<ul style="list-style-type: none"> <li>Our Surroundings and Natural Resources</li> <li>Basic Concepts of Air, Water, and Soil</li> </ul>
4.	English	<ul style="list-style-type: none"> <li>Alphabet Recognition and Phonics</li> <li>Reading Comprehension (Simple Stories)</li> <li>Basic Grammar Concepts (Nouns, Verbs, Adjectives)</li> </ul>

## SYLLABUS FOR CLASS II

SI No.	Scholastic Subjects	Contents
1.	Mathematics	<ul style="list-style-type: none"> <li>Numbers up to 1000 and Number Patterns</li> <li>Multiplication and Division (basic concepts)</li> <li>Measurement (Length, Weight, Volume)</li> </ul>
2.	Science	<ul style="list-style-type: none"> <li>Parts of Plants and their Functions</li> <li>Basic Concepts of Light &amp; Shadow</li> <li>Weather &amp; Seasons</li> </ul>
3.	Social Science/EVS	<ul style="list-style-type: none"> <li>Our Natural Surroundings and Ecosystem</li> <li>Solar System and Planets</li> <li>Plants and Animals in Different Habitats</li> </ul>
4.	English	<ul style="list-style-type: none"> <li>Phonics and Reading Fluency</li> <li>Sentence Formation and Basic Grammar</li> <li>Creative Writing (short sentences and stories)</li> </ul>

## SYLLABUS FOR CLASS III

SI No.	Subjects	Contents
<b>SCHOLASTIC SUBJECTS</b>		
1.	Mathematics	<ul style="list-style-type: none"> <li>Numbers up to 1000 and Number Patterns</li> <li>Multiplication and Division (basic concepts)</li> <li>Measurement (Length, Weight, Volume, Time)</li> </ul>
2.	Science	<ul style="list-style-type: none"> <li>Plant Life Cycle and Parts of a Flower</li> <li>Properties of Matter (Solid, Liquid, Gas)</li> <li>Basic Concepts of Light and Sound</li> </ul>
3.	Social Science/EVS	<ul style="list-style-type: none"> <li>Our Environment and Ecosystems</li> <li>Solar System and Planets</li> <li>Weather Patterns and Climate</li> </ul>
4.	English	<ul style="list-style-type: none"> <li>Phonics and Reading Comprehension</li> <li>Sentence Structure and Grammar</li> <li>Comprehension of Longer Texts</li> </ul>
<b>CO-SCHOLASTIC SUBJECTS</b>		
5.	STEM	<ul style="list-style-type: none"> <li>Exploration of Simple Machines and Their Functions</li> <li>Engineering Design and Building Structures</li> <li>Scientific Inquiry and Experimental Design</li> </ul>

## SYLLABUS FOR CLASS IV

Sl No.	Subjects	Contents	
<b>SCHOLASTIC SUBJECTS</b>			
1.	Mathematics	<ul style="list-style-type: none"> <li>Numbers up to 10,000 and Number Patterns</li> <li>Fractions and Decimals</li> <li>Measurement (Length, Weight, Volume, Time)</li> </ul>	<ul style="list-style-type: none"> <li>Addition, Subtraction, Multiplication, and Division</li> <li>Geometry (Shapes, Angles, Symmetry)</li> <li>Problem-solving with Multiple Operations</li> </ul>
2.	Science	<ul style="list-style-type: none"> <li>Human Body Systems and Functions</li> <li>States of Matter (Solid, Liquid, Gas)</li> <li>Sound and Light Waves</li> </ul>	<ul style="list-style-type: none"> <li>Animal Behavior and Adaptations</li> <li>Earth's Resources (Renewable and Non renewable)</li> <li>Simple Machines and their Applications</li> </ul>
3.	Social Science/EVS	<ul style="list-style-type: none"> <li>Ecosystems and Biodiversity</li> <li>Weather Patterns and Climate Change</li> <li>Environmental Impact Assessment</li> </ul>	<ul style="list-style-type: none"> <li>Conservation of Natural Resources</li> <li>Earth's Atmosphere and Oceans</li> <li>Sustainable Practices and Eco-friendly Living</li> </ul>
4.	English	<ul style="list-style-type: none"> <li>Reading Comprehension and Critical Analysis</li> <li>Grammar (Parts of Speech, Tenses)</li> <li>Comprehension of Longer Texts</li> </ul>	<ul style="list-style-type: none"> <li>Vocabulary Building and Synonyms/Antonyms</li> <li>Creative Writing (essays, stories, poems)</li> <li>Effective Communication Skills</li> </ul>
<b>CO-SCHOLASTIC SUBJECTS</b>			
5.	STEM	<ul style="list-style-type: none"> <li>Robotics and Programming Basics</li> <li>Engineering Design Challenges</li> <li>Scientific Inquiry and Experimental Design</li> </ul>	<ul style="list-style-type: none"> <li>Advanced Concepts of Simple and Compound Machines</li> <li>Electricity and Circuits (building circuits)</li> <li>Introduction to Environmental Engineering</li> </ul>
6.	General Knowledge	<ul style="list-style-type: none"> <li>World Geography and Countries</li> <li>Current Affairs for Children</li> <li>Space Exploration and Celestial Bodies</li> </ul>	<ul style="list-style-type: none"> <li>Historical Events and Famous Personalities</li> <li>Cultural Diversity and Traditions</li> <li>General Knowledge Questions from Various Fields</li> </ul>
7.	AI/Computer	<ul style="list-style-type: none"> <li>Advanced Concepts of Computer Hardware and Software</li> <li>Introduction to Algorithms and Flowcharts</li> <li>Spreadsheets and Data Analysis</li> </ul>	<ul style="list-style-type: none"> <li>Programming Concepts (conditional statements, loops)</li> <li>Internet Safety and Cybersecurity</li> <li>Understanding Networks and Connectivity</li> </ul>
8.	Aptitude & Reasoning	<ul style="list-style-type: none"> <li>Advanced Patterns, Series, and Sequences</li> <li>Mathematical Reasoning (word problems)</li> <li>Data Interpretation</li> </ul>	<ul style="list-style-type: none"> <li>Logical Reasoning (solving complex puzzles)</li> <li>Analytical and Critical Thinking</li> <li>Problem-solving Strategies</li> </ul>

## SYLLABUS FOR CLASS V

Sl No.	Subjects	Contents	
<b>SCHOLASTIC SUBJECTS</b>			
1.	Mathematics	<ul style="list-style-type: none"> <li>Numbers up to 100,000 and Number Patterns</li> <li>Fractions, Decimals, and Percentages</li> <li>Measurement (Area, Perimeter)</li> </ul>	<ul style="list-style-type: none"> <li>Operations (Addition, Subtraction, Multiplication, Division)</li> <li>Geometry (Polygons, Circles, Volume)</li> <li>Data Handling and Probability</li> </ul>
2.	Science	<ul style="list-style-type: none"> <li>Human Anatomy and Physiology</li> <li>Chemical Changes and Reactions</li> <li>Energy and Conservation</li> </ul>	<ul style="list-style-type: none"> <li>Ecosystems and Interdependence</li> <li>Earth's Structure and Plate Tectonics</li> <li>Introduction to Genetics and Heredity</li> </ul>
3.	Social Science/EVS	<ul style="list-style-type: none"> <li>Biodiversity and Conservation</li> <li>Waste Management and Recycling</li> <li>Renewable Energy Sources</li> </ul>	<ul style="list-style-type: none"> <li>Climate Change and Global Warming</li> <li>Natural Disasters and Disaster Management</li> <li>Environmental Impact Assessment and Sustainable Practices</li> </ul>
4.	English	<ul style="list-style-type: none"> <li>Reading Comprehension and Critical Analysis</li> <li>Grammar (Advanced Parts of Speech, Tenses)</li> <li>Comprehension of Longer Texts</li> </ul>	<ul style="list-style-type: none"> <li>Vocabulary Building and Synonyms/Antonyms</li> <li>Creative Writing (essays, stories, poems)</li> <li>Public Speaking and Debate Skills</li> </ul>

CO-SCHOLASTIC SUBJECTS		
5.	STEM	<ul style="list-style-type: none"> <li>Robotics and Advanced Programming Concepts</li> <li>Advanced Concepts of Simple and Compound Machines</li> <li>Scientific Research and Inquiry Solutions</li> <li>Engineering Design and Prototyping</li> <li>Electricity and Circuits (building circuits)</li> <li>Environmental Engineering and Sustainable Solutions</li> </ul>
6.	General Knowledge	<ul style="list-style-type: none"> <li>World Geography and Countries</li> <li>Current Affairs for Children</li> <li>Space Exploration and Astronomy</li> <li>Historical Events and Famous Personalities</li> <li>Cultural Diversity and Traditions</li> <li>General Knowledge Questions from Various Fields</li> </ul>
7.	AI/Computer	<ul style="list-style-type: none"> <li>Advanced Concepts of Computer Programming</li> <li>Introduction to Artificial Intelligence</li> <li>Database Management</li> <li>Algorithms and Flowcharts</li> <li>Cybersecurity and Ethical Hacking</li> <li>Internet of Things (IoT) Basics</li> </ul>
8.	Aptitude & Reasoning	<ul style="list-style-type: none"> <li>Advanced Patterns, Series, and Sequences</li> <li>Mathematical Reasoning (word problems)</li> <li>Data Interpretation and Analysis</li> <li>Logical Reasoning (solving complex puzzles)</li> <li>Analytical and Critical Thinking</li> <li>Problem-solving Strategies</li> </ul>

### SYLLABUS FOR CLASS VI

Sl No.	Subjects	Contents
<b>SCHOLASTIC SUBJECTS</b>		
1.	Mathematics	<ul style="list-style-type: none"> <li>Numbers and Operations (integers, fractions, decimals)</li> <li>Geometry (Angles, Triangles, Quadrilaterals)</li> <li>Ratio and Proportion</li> <li>Algebraic Expressions and Equations</li> <li>Data Handling (Graphs, Charts)</li> <li>Basic Concepts of Probability</li> </ul>
2.	Science	<ul style="list-style-type: none"> <li>Cell Structure and Function</li> <li>Earth's Atmosphere and Weather Patterns</li> <li>Light and Sound Waves</li> <li>Basics of Physics (Force, Motion, Energy)</li> <li>Chemical Reactions and Equations</li> <li>Classification of Living Organisms</li> </ul>
3.	Social Science/EVS	<ul style="list-style-type: none"> <li>Ecosystems and Biodiversity</li> <li>Climate Change and Global Warming</li> <li>Environmental Impact Assessment</li> <li>Natural Resources and Conservation</li> <li>Waste Management and Recycling</li> <li>Sustainable Practices and Green Technologies</li> </ul>
4.	English	<ul style="list-style-type: none"> <li>Reading Comprehension and Critical Analysis</li> <li>Grammar (Parts of Speech, Tenses, Active/Passive Voice)</li> <li>Literature Appreciation</li> <li>Vocabulary Building and Synonyms/Antonyms</li> <li>Creative Writing (essays, stories, poems)</li> <li>Public Speaking and Debating Skills</li> </ul>
<b>CO-SCHOLASTIC SUBJECTS</b>		
5.	STEM	<ul style="list-style-type: none"> <li>Robotics and Advanced Programming Concepts</li> <li>Electricity and Circuits (advanced concepts)</li> <li>Innovations in Technology</li> <li>Engineering Design and Prototyping</li> <li>Scientific Research and Inquiry</li> <li>Environmental Engineering and Sustainable Solutions</li> </ul>
6.	General Knowledge	<ul style="list-style-type: none"> <li>World Geography and Countries</li> <li>Current Affairs for Children</li> <li>Space Exploration and Astronomy</li> <li>Historical Events and Famous Personalities</li> <li>Cultural Diversity and Traditions</li> <li>General Knowledge Questions from Various Fields</li> </ul>
7.	AI/Computer	<ul style="list-style-type: none"> <li>Programming Concepts and Languages</li> <li>Advanced Internet Safety and Cybersecurity</li> <li>Introduction to Artificial Intelligence</li> <li>Algorithms, Flowcharts, and Pseudocode</li> <li>Web Development Basics (HTML, CSS)</li> <li>Database Management and SQL</li> </ul>
8.	Aptitude & Reasoning	<ul style="list-style-type: none"> <li>Patterns, Series, and Sequences</li> <li>Mathematical Reasoning (word problems, algebraic reasoning)</li> <li>Data Interpretation and Analysis</li> <li>Logical Reasoning (solving complex problems)</li> <li>Critical Thinking and Analytical Skills</li> <li>Problem-solving Strategies</li> </ul>

## SYLLABUS FOR CLASS VII

SI No.	Subjects	Contents	
<b>SCHOLASTIC SUBJECTS</b>			
1.	Mathematics	<ul style="list-style-type: none"> <li>• Number Systems (Rational Numbers, Irrational Numbers)</li> <li>• Geometry (Angles, Circles, Constructions)</li> <li>• Rational and Irrational Numbers</li> </ul>	<ul style="list-style-type: none"> <li>• Algebraic Expressions and Equations</li> <li>• Data Handling (Statistics, Probability)</li> <li>• Exponents and Powers</li> </ul>
2.	Science	<ul style="list-style-type: none"> <li>• Cell Biology and Microorganisms</li> <li>• Chemistry - Elements, Compounds, and Mixtures</li> <li>• Basics of Astronomy (Solar System, Stars)</li> </ul>	<ul style="list-style-type: none"> <li>• Basics of Physics (Motion, Energy, Sound)</li> <li>• Earth Science - Geology and Earth's Processes</li> <li>• Genetics and Heredity</li> </ul>
3.	Social Science/EVS	<ul style="list-style-type: none"> <li>• Ecosystems and Conservation</li> <li>• Environmental Pollution and Remediation</li> <li>• Renewable and Non-Renewable Energy Sources</li> </ul>	<ul style="list-style-type: none"> <li>• Climate Change and Global Warming</li> <li>• Biodiversity and Endangered Species</li> <li>• Sustainable Development</li> </ul>
4.	English	<ul style="list-style-type: none"> <li>• Reading Comprehension and Critical Analysis</li> <li>• Grammar (Advanced Parts of Speech, Tenses, Voice)</li> <li>• Literature Analysis and Appreciation</li> </ul>	<ul style="list-style-type: none"> <li>• Vocabulary Building and Word Usage</li> <li>• Creative Writing (essays, stories, poems)</li> <li>• Effective Communication Skills</li> </ul>
<b>CO-SCHOLASTIC SUBJECTS</b>			
5.	STEM	<ul style="list-style-type: none"> <li>• Robotics and Advanced Programming Concepts</li> <li>• Electricity and Circuits (advanced concepts)</li> <li>• Innovations in Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Engineering Design and Prototyping</li> <li>• Scientific Research and Experimental Design</li> <li>• Environmental Engineering and Sustainable Solutions</li> </ul>
6.	General Knowledge	<ul style="list-style-type: none"> <li>• World Geography, Countries, and Capitals</li> <li>• Current Affairs for Children</li> <li>• Space Exploration and Astronomy</li> </ul>	<ul style="list-style-type: none"> <li>• Historical Events and Famous Personalities</li> <li>• Cultural Diversity and Traditions</li> <li>• General Knowledge Questions from Various Fields</li> </ul>
7.	AI/Computer	<ul style="list-style-type: none"> <li>• Programming Concepts (Introduction to a programming language)</li> <li>• Cybersecurity and Ethical Hacking</li> <li>• Introduction to Artificial Intelligence and Machine Learning</li> </ul>	<ul style="list-style-type: none"> <li>• Algorithms, Flowcharts, and Pseudocode</li> <li>• Web Development Basics (HTML, CSS, JavaScript)</li> <li>• Database Management and SQL</li> </ul>
8.	Aptitude & Reasoning	<ul style="list-style-type: none"> <li>• Patterns, Series, and Sequences</li> <li>• Mathematical Reasoning (algebraic reasoning, word problems)</li> <li>• Data Interpretation and Analysis</li> </ul>	<ul style="list-style-type: none"> <li>• Logical Reasoning (complex puzzles, deductive reasoning)</li> <li>• Critical Thinking and Analytical Skills</li> <li>• Problem-solving Strategies</li> </ul>

## SYLLABUS FOR CLASS VIII

SI No.	Subjects	Contents	
<b>SCHOLASTIC SUBJECTS</b>			
1.	Mathematics	<ul style="list-style-type: none"> <li>• Number Systems (Rational, Irrational, Real Numbers)</li> <li>• Geometry (Triangles, Quadrilaterals, Circles)</li> <li>• Linear Equations and Inequalities</li> </ul>	<ul style="list-style-type: none"> <li>• Algebraic Expressions and Equations</li> <li>• Data Handling (Statistics, Probability)</li> <li>• Quadratic Equations and Polynomials</li> </ul>
2.	Science	<ul style="list-style-type: none"> <li>• Cell Biology and Genetics</li> <li>• Chemistry - Elements, Compounds, and Chemical Reactions</li> <li>• Astronomy - Solar System, Stars, and Galaxies</li> </ul>	<ul style="list-style-type: none"> <li>• Physics - Motion, Forces, and Energy</li> <li>• Earth Science - Geology, Weathering, and Erosion</li> <li>• Environmental Science - Pollution, Conservation, and Sustainability</li> </ul>

3.	Social Science/EVS	<ul style="list-style-type: none"> <li>Ecosystems and Biodiversity Conservation</li> <li>Environmental Pollution and Solutions</li> <li>Waste Management and Recycling</li> </ul>	<ul style="list-style-type: none"> <li>Climate Change and Global Warming</li> <li>Renewable Energy Sources</li> <li>Sustainable Development Goals (SDGs)</li> </ul>
4.	English	<ul style="list-style-type: none"> <li>Reading Comprehension and Critical Analysis</li> <li>Grammar (Advanced Parts of Speech, Tenses, Voice)</li> <li>Literature Analysis and Appreciation</li> </ul>	<ul style="list-style-type: none"> <li>Vocabulary Building and Word Usage</li> <li>Creative Writing (essays, stories, poems)</li> <li>Effective Communication Skills and Public Speaking</li> </ul>
<b>CO-SCHOLASTIC SUBJECTS</b>			
5.	STEM	<ul style="list-style-type: none"> <li>Robotics and Advanced Programming Concepts</li> <li>Electricity and Circuits (advanced concepts)</li> <li>Innovations in Technology</li> </ul>	<ul style="list-style-type: none"> <li>Engineering Design and Prototyping</li> <li>Scientific Research and Experimental Design</li> <li>Environmental Engineering and Sustainable Solutions</li> </ul>
6.	General Knowledge	<ul style="list-style-type: none"> <li>World Geography, Countries, and Capitals</li> <li>Current Affairs for Children</li> <li>Space Exploration and Astronomy</li> </ul>	<ul style="list-style-type: none"> <li>Historical Events and Famous Personalities</li> <li>Cultural Diversity and Traditions</li> <li>General Knowledge Questions from Various Fields</li> </ul>
7.	AI/Computer	<ul style="list-style-type: none"> <li>Programming Concepts (Advanced programming language)</li> <li>Cybersecurity and Encryption</li> <li>Introduction to Machine Learning</li> </ul>	<ul style="list-style-type: none"> <li>Data Structures and Algorithms</li> <li>Web Development (HTML, CSS, JavaScript, Backend Basics)</li> <li>Database Management and SQL</li> </ul>
8.	Aptitude & Reasoning	<ul style="list-style-type: none"> <li>Patterns, Series, and Sequences</li> <li>Mathematical Reasoning (algebraic reasoning, word problems)</li> <li>Data Interpretation and Analysis</li> </ul>	<ul style="list-style-type: none"> <li>Logical Reasoning (complex puzzles, deductive reasoning)</li> <li>Critical Thinking and Analytical Skills</li> <li>Problem-solving Strategies</li> </ul>

### SYLLABUS FOR CLASS IX

Sl No.	Subjects	Contents	
<b>SCHOLASTIC SUBJECTS</b>			
1.	Mathematics	<ul style="list-style-type: none"> <li>Number Systems (Real Numbers, Rational and Irrational Numbers)</li> <li>Geometry (Triangles, Circles, Constructions)</li> <li>Trigonometry</li> </ul>	<ul style="list-style-type: none"> <li>Algebraic Expressions and Equations</li> <li>Quadratic Equations and Polynomials</li> <li>Statistics and Probability</li> </ul>
2.	Science	<ul style="list-style-type: none"> <li>Cell Biology and Genetics</li> <li>Chemistry - Chemical Reactions, Periodic Table</li> <li>Astronomy - Solar System, Stars, and Cosmology</li> </ul>	<ul style="list-style-type: none"> <li>Physics - Motion, Forces, and Energy</li> <li>Earth Science - Geology, Climate, Natural Disasters</li> <li>Environmental Science - Pollution, Conservation, and Sustainability</li> </ul>
3.	Social Science/EVS	<ul style="list-style-type: none"> <li>Ecosystems and Biodiversity Conservation</li> <li>Environmental Pollution and Solutions</li> <li>Waste Management and Recycling</li> </ul>	<ul style="list-style-type: none"> <li>Climate Change and Global Warming</li> <li>Renewable Energy Sources</li> <li>Sustainable Development Goals (SDGs)</li> </ul>
3.	English	<ul style="list-style-type: none"> <li>Reading Comprehension and Critical Analysis</li> <li>Grammar (Advanced Parts of Speech, Tenses, Voice)</li> <li>Literature Analysis and Appreciation</li> </ul>	<ul style="list-style-type: none"> <li>Vocabulary Building and Word Usage</li> <li>Creative Writing (essays, stories, poems)</li> <li>Effective Communication Skills and Public Speaking</li> </ul>

CO-SCHOLASTIC SUBJECTS		
5.	STEM	<ul style="list-style-type: none"> <li>Robotics and Advanced Programming Concepts</li> <li>Advanced Physics Concepts (Electricity, Magnetism)</li> <li>Innovations in Technology</li> </ul>
6.	General Knowledge	<ul style="list-style-type: none"> <li>World Geography, Countries, and Capitals</li> <li>Current Affairs for Students</li> <li>Space Exploration and Astronomy</li> </ul>
7.	AI/Computer	<ul style="list-style-type: none"> <li>Programming Concepts (Advanced programming language)</li> <li>Cybersecurity and Encryption</li> <li>Machine Learning and Artificial Intelligence</li> </ul>
8.	Aptitude & Reasoning	<ul style="list-style-type: none"> <li>Patterns, Series, and Sequences</li> <li>Mathematical Reasoning (algebraic reasoning, word problems)</li> <li>Data Interpretation and Analysis</li> </ul>

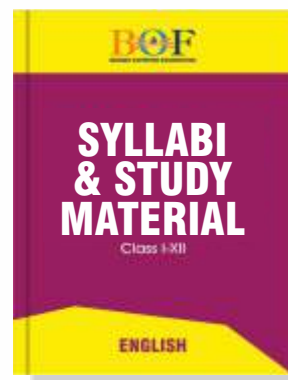
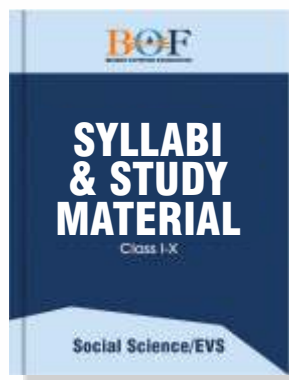
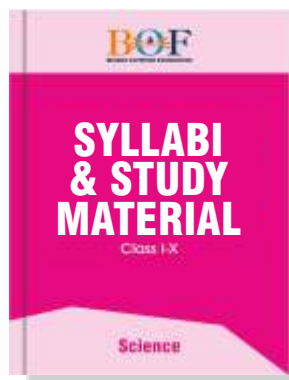
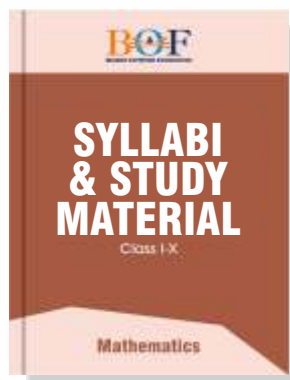
### SYLLABUS FOR CLASS X

SI No.	Subjects	Contents
SCHOLASTIC SUBJECTS		
1.	Mathematics	<ul style="list-style-type: none"> <li>Real Numbers and Polynomials</li> <li>Coordinate Geometry and Trigonometry</li> <li>Circles and Constructions</li> </ul>
2.	Science	<ul style="list-style-type: none"> <li>Biology - Genetics, Evolution, Human Health and Diseases</li> <li>Chemistry - Chemical Kinetics, Organic Chemistry, Environmental Chemistry</li> <li>Astronomy - Celestial Mechanics, Cosmology</li> </ul>
3.	Social Science/EVS	<ul style="list-style-type: none"> <li>Ecosystems and Conservation</li> <li>Environmental Pollution and Solutions</li> <li>Waste Management and Recycling</li> </ul>
4.	English	<ul style="list-style-type: none"> <li>Reading Comprehension and Critical Analysis</li> <li>Grammar (Advanced Parts of Speech, Tenses, Voice)</li> <li>Literature Analysis and Appreciation</li> </ul>
CO-SCHOLASTIC SUBJECTS		
5.	STEM	<ul style="list-style-type: none"> <li>Robotics and Advanced Programming Concepts</li> <li>Advanced Physics Concepts (Electricity, Magnetism)</li> <li>Innovations in Technology</li> </ul>
6.	General Knowledge	<ul style="list-style-type: none"> <li>World Geography, Countries, and Capitals</li> <li>Current Affairs for Students</li> <li>Space Exploration and Astronomy</li> </ul>
7.	AI/Computer	<ul style="list-style-type: none"> <li>Programming in a High-Level Language (e.g., Python, Java)</li> <li>Cybersecurity and Ethical Hacking</li> <li>Database Management and SQL</li> </ul>
8.	Aptitude & Reasoning	<ul style="list-style-type: none"> <li>Number Systems and Algebraic Expressions</li> <li>Mathematical Reasoning (algebraic reasoning, word problems)</li> <li>Data Interpretation and Analysis</li> </ul>

## SYLLABUS FOR CLASS XI & XII

Sl No.	Subjects	Contents	
<b>CO-SCHOLASTIC SUBJECTS</b>			
1.	AI/Computer	<ul style="list-style-type: none"> <li>Programming in a High-Level Language (e.g., Python, Java)</li> <li>Artificial Intelligence Fundamentals</li> <li>Cybersecurity and Ethical Hacking</li> </ul>	<ul style="list-style-type: none"> <li>Data Structures and Algorithms</li> <li>Machine Learning Concepts</li> <li>Web Development (Advanced Concepts)</li> </ul>
2.	STEM	<ul style="list-style-type: none"> <li>Advanced Physics Concepts (Quantum Mechanics, Relativity)</li> <li>Advanced Mathematics Concepts (Calculus, Differential Equations)</li> <li>Scientific Research and Experimental Design</li> </ul>	<ul style="list-style-type: none"> <li>Advanced Chemistry Concepts (Organic Synthesis, Thermodynamics)</li> <li>Engineering Design and Innovation</li> <li>Environmental Engineering and Sustainability</li> </ul>
3.	Aptitude & Reasoning	<ul style="list-style-type: none"> <li>Advanced Number Systems and Algebraic Expressions</li> <li>Mathematical Reasoning (algebraic reasoning, word problems)</li> <li>Data Interpretation and Analysis</li> </ul>	<ul style="list-style-type: none"> <li>Logical Reasoning (complex puzzles, deductive reasoning)</li> <li>Critical Thinking and Analytical Skills</li> <li>Problem-solving Strategies in Advanced Mathematics</li> </ul>
4.	English	<ul style="list-style-type: none"> <li>Reading Comprehension and Critical Analysis</li> <li>Advanced Grammar (Syntax, Semantics)</li> <li>Literature Analysis and Appreciation</li> </ul>	<ul style="list-style-type: none"> <li>Vocabulary Building and Word Usage</li> <li>Creative Writing (essays, research papers)</li> <li>Effective Communication Skills and Public Speaking</li> </ul>

### SCHOLASTIC SUBJECTS



### CO-SCHOLASTIC SUBJECTS

