

# SYLLABUS FOR CLASS XI & XII

SR. No.	Subjects	Contents
<b>CO-SCHOLASTIC SUBJECTS</b>		
1.	Artificial Intelligence	<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> <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> <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> <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> <li>• Vocabulary Building and Word Usage</li> <li>• Creative Writing (essays, research papers)</li> <li>• Effective Communication Skills and Public Speaking</li> </ul>
5.	Commerce Class XI (Accountancy, Business Studies & Economics)	<p><b>Introduction to Accounting</b></p> <ul style="list-style-type: none"> <li>• Meaning, objectives, and importance of accounting.</li> <li>• Basic terms: Assets, liabilities, capital, revenue, expenses, profit, and loss.</li> <li>• Users of accounting information and their needs.</li> <li>• Limitations of accounting.</li> </ul> <p><b>Theory Base of Accounting</b></p> <ul style="list-style-type: none"> <li>• Accounting principles: Concepts and conventions (e.g., Going Concern, Accrual, Consistency).</li> <li>• Meaning and need for the system of accounting standards.</li> <li>• International Financial Reporting Standards (IFRS) overview.</li> <li>• Goods and Services Tax (GST) and its implications.</li> </ul> <p><b>Nature and Purpose of Business</b></p> <ul style="list-style-type: none"> <li>• Concept of business, objectives, and role in the economy.</li> <li>• Types of business activities: Industry and commerce.</li> <li>• Characteristics and importance of business risks.</li> </ul> <p><b>Forms of Business Organizations</b></p> <ul style="list-style-type: none"> <li>• Sole proprietorship, partnership, joint-stock company, and cooperative societies.</li> <li>• Features, merits, and demerits of each form of organization.</li> <li>• Comparison of different forms of organizations.</li> </ul> <p><b>Introduction to Microeconomics</b></p> <ul style="list-style-type: none"> <li>• Meaning, scope, and importance of microeconomics.</li> <li>• Central problems of an economy: What to produce, how to produce, and for whom to produce.</li> <li>• Concept of opportunity cost and production possibility frontier (PPF).</li> </ul> <p><b>Statistics</b></p> <ul style="list-style-type: none"> <li>• Collection and Organization of Data</li> <li>• Classification and Tabulation of Data</li> <li>• Measures of Central Tendency (Mean, Median, Mode)</li> <li>• Measures of Dispersion (Range, Variance &amp; Standard Deviation)</li> </ul>

6.

**Commerce  
Class XII**(Accountancy, Business  
Studies & Economics)**Accounting for Partnership Firms**

- Fundamentals of partnership: Features, partnership deed, and adjustments in the absence of a deed.
- Methods of distributing profit: Fixed and fluctuating capital accounts.
- Treatment of goodwill and changes in profit-sharing ratio.
- Admission, retirement, and death of a partner.

**Accounting for Companies**

- Issue of shares: Types, accounting treatment, and journal entries.
- Forfeiture and reissue of shares.
- Issue and redemption of debentures.
- Financial statements of a company: Balance sheet and statement of profit and loss.

**Principles of Management**

- Nature and Significance of Management
- Functions of Management
- Principles of Management
- Management and its Environment

**Entrepreneurship Development**

- Meaning, characteristics, and importance of entrepreneurship.
- Functions and roles of an entrepreneur in economic development.
- Business planning and start-up process.

**Indian Economic Development**

- Overview of the Indian economy at the time of independence.
- Economic planning in India: Objectives, achievements, and failures.
- Structural changes in the Indian economy: Agriculture, industry, and services.
- Current challenges: Poverty, unemployment, and infrastructure.

**Government Budget and the Economy**

- Objectives and components of the government budget: Revenue and capital budget.
- Types of deficits: Fiscal deficit, Revenue deficit, and Primary deficit.
- Role of government budget in economic stability and development.