



**EXCEL**  
INTERNATIONAL

## **Course Name: Quantitative Aptitude Foundations**

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### **1. Course Module Structure**

This course is divided into 10 structured modules designed to build strong numerical ability, logical reasoning, and problem-solving skills. Each module focuses on fundamental quantitative concepts and their real-life applications. The course emphasizes step-by-step learning, practice-based understanding, and speed-building techniques to help learners excel in aptitude tests, academics, and competitive exams.

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### **2. Module, 3. Topic & 4. Module for 10**

#### *Module 1: Introduction to Quantitative Aptitude*

**Topics:**

- Importance of quantitative skills
  - Basic arithmetic operations
  - Understanding numbers
  - Real-life applications
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#### *Module 2: Number System*

**Topics:**

- Types of numbers
  - Factors and multiples
  - Divisibility rules
  - Simplification techniques
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#### *Module 3: Fractions, Decimals & Percentages*

**Topics:**

- Conversion methods

- Percentage calculations
  - Applications in daily life
  - Comparison techniques
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#### ***Module 4: Ratio and Proportion***

##### **Topics:**

- Understanding ratios
  - Proportion concepts
  - Mixture problems
  - Partnership calculations
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#### ***Module 5: Profit, Loss & Discount***

##### **Topics:**

- Cost price and selling price
  - Profit and loss formulas
  - Discount calculations
  - Real-world examples
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#### ***Module 6: Time, Speed and Distance***

##### **Topics:**

- Speed, distance, time relationship
  - Relative speed
  - Problems on trains
  - Boats and streams
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#### ***Module 7: Time and Work***

##### **Topics:**

- Work efficiency
  - Work and time relationship
  - Pipes and cisterns
  - Combined work problems
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### *Module 8: Basic Algebra*

**Topics:**

- Algebraic expressions
  - Simple equations
  - Identities
  - Problem-solving techniques
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### *Module 9: Data Interpretation*

**Topics:**

- Tables and charts
  - Graph analysis
  - Data comparison
  - Logical conclusions
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### *Module 10: Practice & Final Assessment*

**Topics:**

- Mixed problem solving
  - Shortcut techniques
  - Mock tests
  - Performance evaluation
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