

Quantitative Aptitude and Logical Reasoning Program for B.Tech Students

Overview

The Quantitative Aptitude and Logical Reasoning Program is designed to develop students' analytical thinking, problem-solving abilities, and numerical proficiency through a structured four-semester curriculum. It focuses on improving mathematical reasoning, logical analysis, and aptitude skills essential for competitive examinations and corporate recruitment processes.

1 Semester III -- Foundations of Number Systems and Basic Reasoning

Objective:

To build a strong foundation in number systems, basic mathematics, and logical thinking.

Key Modules:

- Unit Place Digit
- Last Two Digit
- Factors
- Remainder Theorem
- HCF and LCM
- Calendar
- Clock
- Direction and Sense
- Time and Work
- Pipe and Cistern

Outcomes:

Students gain proficiency in fundamental number concepts, develop time management skills, and learn to solve practical mathematical problems with accuracy.

2 Semester IV -- Commercial Mathematics and Pattern Recognition

Objective:

To enhance problem-solving abilities in commercial mathematics and develop pattern recognition skills.

Key Modules:

- Percentage
- Profit and Loss
- Time Speed and Distance
- Blood Relations
- Problems on Ages
- Letter Series

- Number Series
- Coding Decoding
- Cubes and Dice

Outcomes:

Students master commercial arithmetic, identify patterns efficiently, and build logical reasoning capabilities for competitive examinations.

1 Semester V -- Advanced Quantitative Techniques and Probability

Objective:

To develop advanced quantitative skills and probabilistic thinking for complex problem-solving.

Key Modules:

- Ratio and Proportion
- Partnership
- Mixture and Alligation
- Simple and Compound Interest
- Permutation and Combination
- Probability
- Syllogism

Outcomes:

Students learn advanced mathematical concepts, apply probabilistic reasoning, and demonstrate strong analytical skills in business scenarios.

1 Semester VI -- Placement-Oriented Aptitude & Advanced Reasoning

Objective:

To prepare students for placement tests, competitive exams, and corporate analytical challenges.

Key Modules:

- Data Interpretation
- Sitting Arrangement
- Puzzle
- Non Verbal Reasoning
- Set Theory
- Gaming Based Aptitude

Outcomes:

Students become placement-ready with expertise in data analysis, complex reasoning patterns, visual reasoning, and corporate aptitude requirements.

◆ Program Highlights

- Comprehensive focus on Quantitative Aptitude and Logical Reasoning
- Interactive learning through problem-solving sessions and timed tests
- Regular aptitude drills, mock tests, and performance feedback
- Integrated placement preparation with industry-standard question patterns