

AIIP APTITUDE EXAM SYLLABUS

1. Quantitative Aptitude

Topics:

- Number Systems
- Simplification and Approximation
- Percentages, Ratios, and Proportions
- Profit, Loss, and Discounts
- Averages and Mixtures
- Time, Speed, and Distance
- Time and Work
- Simple and Compound Interest
- Permutations and Combinations
- Probability
- Data Interpretation (Graphs, Charts, Tables)

* Focus: Basic arithmetic and problem-solving skills that are relevant to all engineering disciplines.

2. Logical Reasoning and Analytical Ability

Topics:

- Series and Sequences (Numerical and Alphabetical)
- Puzzles and Arrangements
- Coding-Decoding
- Blood Relations
- Direction Sense
- Syllogisms
- Statement and Conclusion/Assumptions
- Analogies and Classifications
- Data Sufficiency

Focus: Evaluates critical thinking and logical problem-solving skills.

3. Verbal Ability and English Language

Topics:

- Reading Comprehension
- Sentence Correction and Error Spotting
- Synonyms and Antonyms
- Vocabulary and Grammar
- Para Jumbles
- Sentence Completion

Focus: Tests communication skills, which are essential for all professionals.

4. Basic Technical Knowledge (Common to All Branches)

Topics:

- Basic Computer Fundamentals and Programming Concepts (e.g., C, Python)
- Basics of Electrical and Electronics (Ohm's Law, Circuit Elements)
- Basic Mechanical Concepts (e.g., Thermodynamics, Mechanics)
- Engineering Mathematics (Linear Algebra, Calculus, Differential Equations)
- Basic Physics and Chemistry Concepts
- Introduction to Cybersecurity Fundamentals

Focus: Ensures a baseline technical understanding applicable across various engineering fields.

5. General Awareness and Current Affairs

Topics:

- Recent Developments in Technology
- Basic Science and Innovations
- Important National and International Events
- Major Government Initiatives in Education and Technology
- Environmental Awareness and Sustainability

Focus: Keeps students informed about current trends and general knowledge relevant to the industry.

Exam Pattern and Guidelines

- Total Questions: **40 questions**
- Duration: **60 minutes**
- Question Type: **Multiple Choice Questions (MCQs)**
- Scoring: **+1 for correct answers, 0 for unanswered, -0.25 for incorrect answers**
- Difficulty Level: Moderate, catering to a wide range of engineering students

Preparation Tips for Students

- Review basic concepts and practice problem-solving regularly.
- Focus on time management during the exam.
- Practice mock tests to familiarize yourself with the question pattern and time constraints.

This syllabus is designed to be inclusive, ensuring that engineering students from various disciplines can perform well without facing undue difficulty or subject-specific bias.