

## BEL Project Engineer Exam Pattern

Name of the Subject	Percentage of Questions
General Ability (Part-1)	50% Questions
Subject Related Questions (Part-2)	50% Questions

## BEL Project Engineer Syllabus-Topics Wise

### General Knowledge

- Economy
- Cultural Heritage
- Geography – India & World
- Capital Cities
- Indian National Movement.
- Civics
- About India
- Literature
- Lakes, and seas
- Indian Polity & Governance
- History – India & World.
- Science & Technology
- Artists
- Indian Constitution.
- Famous Places

### English

- Articles
- Grammar
- Antonyms
- Word Formation
- Tenses
- Sentence Rearrangement
- Unseen Passages
- Subject-Verb Agreement
- Passage Completion
- Verb
- Sentence Completion
- Theme detection
- Synonyms
- Error Correction
- Comprehension
- Adverb
- Vocabulary.

- Conclusion
- Idioms & Phrases
- Fill in the Blanks

### **Aptitude**

- Number System
- Mixtures & Allegations
- Profit and Loss
- Time and Work
- HCF & LCM
- Problems on Ages
- Problems on Trains
- Line Graphs
- Pipes & Cisterns
- Heights & Distances Partnership
- Ratio and Proportions
- Probability
- Decimal & Fractions.
- Time and Distance
- Mensuration
- Volume & Surface Area
- Simplification
- Percentages
- Boats & Streams
- Simple & Compound Interest
- Permutation & Combination

### **Reasoning**

- Directions
- Clocks & Calendars
- Non-Verbal Series
- Embedded Figures
- Judgment
- Alphabet Series
- Syllogistic Reasoning
- Arrangements
- Mirror Images
- Number Ranking
- Blood Relations
- Decision Making
- Visual Memory
- Analogies
- Cubes and Dice
- Problem Solving

- Number Series
- Coding-Decoding
- Arithmetical Reasoning

### **Electrical Engineering**

- Network Theory
- Magnetic Circuit
- AC Fundamentals
- Power Systems
- Power Electronics & Drives
- Electrical Machines
- Measurement and measuring instruments
- Estimation and costing
- Analog and Digital Electronics
- Basic Electrical Engineering Concepts
- Utilization of Electrical Energy
- Basic Electronics

### **Mechanical Engineering**

- Thermodynamics
- Refrigeration & Air Conditioning
- Fluid Machinery & Steam Generators
- Machine Design
- The strength of Materials
- Theory of Machines
- Industrial Engineering
- Engineering Materials
- Heat Transfer
- Fluid Mechanics

### **Civil Engineering**

- Construction Planning and Management.
- Structural analysis.
- The strength of materials.
- Building Construction & Materials.
- The design of reinforced concrete structures.
- Theory of structures.
- Steel structures.
- Pre-stressed Concrete.