

BEL Trainee Engineer Exam Pattern 2024

It is strongly recommended that all candidates obtain precise and pertinent details concerning the BEL Trainee Engineer Exam Pattern 2024, as this pattern holds significant importance for applicants in preparing for the upcoming examination.

S.No	Subject Name	Number Of Questions	Number Of Marks	Time Duration	Negative Marks
1.	Technical (Core subjects)	120 Questions	120 Marks	2 Hours	1/4 Marks for incorrect answer
2.	General Aptitude	30 Questions	30 Marks		
Total		150 Questions	150 Marks	2 Hours	

The BEL Trainee Engineer exam consists of 150 questions to be completed within 2 hours (120 minutes). The syllabus for the BEL exam in 2024 comprises 120 marks allocated to Technical (Core subjects) and 30 marks designated for General Aptitude. Candidates need to note that there is a negative marking scheme of -0.25 for every incorrect answer, while each correct answer is awarded a +1 mark. This marking system underscores the importance of accuracy and thorough preparation for maximizing scores in the exam.

BEL Trainee Engineer Syllabus 2024

BEL TE Syllabus 2024 - Technical (Core subjects)

Electronics Communication Engineering

- Engineering Mathematics
- Microprocessor Microelectronics
- Analog Electronics
- Digital Analog Communication
- Network Theory
- Measuring instruments
- Fundamental of electronic devices
- Digital Electronics
- Electromagnetics, Microwave Antennas

- Control systems
- Signals systems
- Digital Signal Processing
- General Aptitude

Computer Science Engineering

- Computer Organization
- Digital Logic
- Theory of Computation
- Operating Systems
- Compiler Design
- Software Engineering
- Databases
- Data Structures
- Algorithms
- Computer networks
- Engineering Mathematics
- General Aptitude

Civil Engineering

- Building Materials
- Surveying
- Construction Management
- Fluid Mechanics Hydraulics
- Soil Mechanics
- Irrigation Engineering
- Structural Engineering
- RCC Design
- Hydrology
- Environmental Engineering
- Solid Mechanics
- Transportation Engineering
- Engineering Mathematics
- General Aptitude

Mechanical Engineering

- Strength of Materials
- Machine Design
- Thermodynamics
- Engineering Materials
- Industrial Engineering
- Fluid Mechanics

- Heat Transfer
- Manufacturing
- Engineering Mathematics
- Engineering Mechanics
- Theory of Machines Vibrations

BEL TE Syllabus 2024 - General Aptitude

Logical Reasoning

- Cause and Effect
- Clocks
- Coding-Decoding
- Critical path
- Reasoning Analogies
- Artificial Language
- Blood Relations
- Calendars
- Mirror and Water Images
- Odd One Out
- Alphanumeric series
- Cubes and cuboids
- Data Sufficiency
- Decision Making
- Deductive Reasoning/Statement Analysis
- Dices
- Directions
- Embedded Images
- Figure Matrix
- Input-Output

English Syllabus

- Reading Comprehension
- Cloze Test
- Article Rules
- Direct Indirect Speech Rules
- Sentence Rearrangement Para jumbles
- Rules For Tenses
- Rules For Prepositions
- List of Prepositions
- Rules and List of Conjunctions
- Letter Writing Format
- Precis Writing

- List of Homophones/Homononyms
- List of Synonyms and Antonyms
- Idioms And Phrases
- Spotting the Error
- Adjective Degree Of Comparison Rules
- Sentence Correction Questions
- Adjective Degree Of Comparison Rules
- Article Rules
- Direct Indirect Speech Rules
- Sentence Rearrangement Para jumbles
- Rules For Tenses
- Rules For Prepositions
- List of Prepositions
- Rules and List of Conjunctions
- Active And Passive Voice Rules
- List of One Word Substitutions
- List of Homophones/Homononyms
- List of Synonyms and Antonyms
- Idioms And Phrases
- Spotting the Error
- Sentence Correction Questions

General Knowledge

- Culture
- Religion
- Animal
- Flag
- History
- Anthem
- Awards
- Authors
- Abbreviations
- Discoveries
- Diseases and Nutrition
- Song
- Flower
- Important National Facts
- Heritage and Arts
- Dance
- Currencies
- Bird

