

BEL Syllabus 2021
(Engineering Assistant Trainee and Technician)

BEL Exam Pattern 2021

Part	Subjects	Marks	Type of Exam
Part – I	General Aptitude	50	Objective Type Questions
Part – II	Technical Aptitude	100	
Total Marks		150	

BEL Syllabus 2021 - Subject Wise

General Aptitude

- General mental ability
- Aptitude to logical reasoning analytical
- Comprehension ability
- Basic numeracy
- Data interpretation skills
- General knowledge

Technical Aptitude

Electronics

- Microprocessors & Microcontrollers
- Computer Hardware etc
- Digital Communications
- Analog Electronics
- Power Electronics & Drives
- Industrial Electronics
- Measurement & Instrumentation
- Advanced Communications
- Circuit Theory/ Digital Electronics
- Analog Communications
- Basic Electronics/ Power Electronics

Mechanical

- Refrigerator and Air-Conditioning
- Strength Of Materials
- Fluid Mechanics And Machines
- Manufacturing Process
- Engineering Mechanics
- Heat Power
- Air Compressor
- Pattern Making
- Machine Tools
- Welding And Allied Processes

Electrical

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

Civil

- Estimating, Costing and Valuation
- Building Materials
- Soil Mechanics
- Irrigation Engineering
- Steel Design
- Concrete Technology
- Transportation Engineering
- Structural Engineering
- Environmental Engineering
- RCC Design
- Theory of structures