SSC JE Syllabus 2026 (Paper 1 & Paper 2)

SSC JE 2026 · Staff Selection Commission (SSC) · SSC · All India · 2026

Last updated 05 Oct 2026

Overview

Official SSC Junior Engineer Examination 2026 syllabus and exam pattern from SSC's notice dated 02.09.2026. Paper-I (200 marks) is now qualifying, and the final merit is based on Paper-II (300 marks) alone. Besides JE (Civil, Electrical, Mechanical), the 2026 examination covers Scientific Assistant in IMD and JE (Telecom), each with its own subject.

Important information

Item	Details
Papers	Paper-I: 200 questions / 200 marks, 2 hours; Paper-II: 100 questions / 300 marks, 2 hours
Paper-I	Qualifying only — used to shortlist for Paper-II
Final merit	Paper-II marks only
Negative marking	Paper-I: 0.25 per wrong answer; Paper-II: 1 mark per wrong answer
Language	Hindi and English only
On-screen help	IS 456:2000 tables, steam tables and a scientific calculator are available on screen; no physical calculator allowed
Level	Diploma level for Civil, Mechanical, Electrical; graduation level for CS & IT, Electronics & Telecom, Physics and Telecommunication
Posts	JE (Civil), JE (Electrical), JE (Mechanical), Scientific Assistant in IMD, JE (Telecom)

Exam pattern

Paper / Stage	Subjects	Questions	Marks	Duration
Paper-I (qualifying)	General Intelligence & Reasoning (50), General Awareness (50), General Engineering — opted part (100)	200	200	2 hours
Paper-II	General Engineering — opted part	100	300	2 hours

Detailed syllabus

1. Paper-I: General Intelligence & Reasoning (50 marks)

- Analogies
- Similarities and differences
- Space visualization
- Problem-solving
- Analysis
- Judgment

- Decision-making
- Visual memory
- Discrimination
- Observation
- Relationship concepts
- Arithmetical reasoning
- Verbal and figure classification
- Arithmetical number series
- Abstract ideas and symbols and their relationships
- Arithmetical computations

Verbal and non-verbal questions.

2. Paper-I: General Awareness (50 marks)

- Current events
- Everyday observations in their scientific aspect
- History
- Culture
- Geography
- Economic Scene
- General Polity
- Scientific Research

India and its neighbouring countries; no special study required.

3. Paper-I Part-A: General Engineering (Civil & Structural) (100 marks)

- Engineering Mechanics
- Solid Mechanics
- Structural Analysis
- Construction Materials and Management
- Estimating, Costing and Valuation
- Concrete Structures
- Steel Structures
- Surveying
- Soil Mechanics (Geotechnical Engineering)
- Fluid Mechanics and Hydraulics
- Hydrology and Irrigation Engineering
- Environmental Engineering
- Transportation (Traffic) Engineering

For JE (Civil). Paper-II (300 marks) covers the same subject in much more detail — see para 14.3 of the official notice.

4. Paper-I Part-B: General Engineering (Electrical) (100 marks)

- Fundamentals of Electrical Engineering
- Magnetic Circuits
- A.C. Fundamentals
- Measurement and Measuring Instruments
- Electrical Machines
- Special Electric Machines and Synchronous Generators
- Generation, Transmission and Distribution

- Estimation & Costing
- Utilization of Electrical Energy
- Basic Electronics
- Power Electronics

For JE (Electrical). Paper-II (300 marks) covers the same subject in much more detail — see para 14.3 of the official notice.

5. Paper-I Part-C: General Engineering (Mechanical) (100 marks)

- Engineering Mechanics
- Strength of Materials
- Theory of Machines
- Machine Design
- Materials Science and Engineering
- Thermal Engineering
- Fluid Mechanics and Hydraulic Machinery
- Industrial Engineering
- Manufacturing Engineering
- Metrology and Measurement
- Advanced Manufacturing Processes

For JE (Mechanical). Paper-II (300 marks) covers the same subject in much more detail — see para 14.3 of the official notice.

6. Paper-I Part-D: Computer Science and Information Technology (100 marks)

- Engineering Mathematics
- Digital Logic
- Computer Organization and Architecture
- Programming and Data Structures
- Algorithms
- Theory of Computation
- Compiler Design
- Operating System
- Databases
- Computer Networks

For Scientific Assistant in IMD. Paper-II (300 marks) covers the same subject in much more detail — see para 14.3 of the official notice.

7. Paper-I Part-E: Electronics and Telecommunication Engineering (100 marks)

- Electronics: Electronic Materials & Components, Diodes, Transistors, Amplifiers & Oscillators, Voltage Regulation, Network Theorems, AC Circuits, Three-Phase Circuits, Resonance, Digital Electronics, Sequential & Combinational Logic, Data Conversion & Codes
- Telecommunications: Antennas, Radio Wave Propagation, Electromagnetic Spectrum, Modulation, Single Sideband, Frequency Modulation, Pulse Modulation, Multiplexing, Introduction to Digital Communication, Radio Frequency Communications & Wireless Telecommunications

For Scientific Assistant in IMD. Paper-II (300 marks) covers the same subject in much more detail — see para 14.3 of the official notice.

8. Paper-I Part-F: Physics (100 marks)

- Mathematical Methods
- Mechanics

- General Properties of Matter
- Oscillations
- Waves
- Optics
- Electricity
- Magnetism
- Kinetic Theory
- Thermodynamics
- Modern Physics
- Solid State Physics
- Semiconductor Devices
- Analog and Digital Electronics

For Scientific Assistant in IMD. Paper-II (300 marks) covers the same subject in much more detail — see para 14.3 of the official notice.

9. Paper-I Part-G: Telecommunications (100 marks)

- Engineering Mathematics
- Network Analysis
- Signals and Systems
- Electronic Devices
- Analog Circuits
- Digital Circuits
- Control Systems
- Analog Communications
- Digital Communications
- Electromagnetics

For JE (Telecom); held in a separate batch. Paper-II (300 marks) covers the same subject in much more detail — see para 14.3 of the official notice.

Official sources

Official syllabus: https://ssc.gov.in/api/attachment/uploads/masterData/NoticeBoards/Notice_of_adv_je_2026.pdf

Official website: https://ssc.gov.in

Online version: https://www.jobnirdesh.com/syllabus/ssc-je-syllabus-2026

Always confirm the syllabus with the official notification of the conducting body before you prepare or apply.