🏫 SSC JE Syllabus 2025 – Paper 1 Detailed Topics

⭐ 1. General Intelligence & Reasoning

- Classification
- Analogy
- Series (Number & Alphabet)
- Coding-Decoding
- Blood Relations
- Directions
- Non-Verbal Reasoning
- Venn Diagram
- Missing Number
- Syllogism
- Mirror Image / Water Image
- Embedded Figures
- Puzzle Test
- Matrix
- Decision Making

⭐ 2. General Awareness

- History, Geography, Polity
- Economy & Current Affairs
- Scientific Research
- Indian Constitution
- Culture & Sports
- Computer Basics
- Environmental Studies
- Government Schemes
- General Science (Physics, Chemistry, Biology)

🏫 SSC JE Engineering Syllabus – Branch-Wise

🧱 SSC JE Civil Engineering Syllabus 2025

1. Building Materials

Stones, Bricks, Cement, Lime, Timber, Plastic, Steel.

2. Estimation, Costing & Valuation

Estimate Types, Analysis of Rates, Valuation Concepts.

3. Soil Mechanics

Consolidation, Shear Strength, Permeability, Compaction.

4. Hydraulics

Fluid Properties, Flow Types, Bernoulli Equation, Pipes & Channels.

5. Irrigation Engineering

Water Demand, Canals, Weirs & Barrages, Dams, Spillways.

6. Transportation Engineering

Highway Planning, Pavements, Traffic Engineering.

7. Environmental Engineering

Water Supply, Sewage, Solid Waste, Air Pollution.

8. Structural Engineering

Bending, Shear, Torsion, Columns, Trusses, RCC, Steel Design.

⚙️ SSC JE Mechanical Engineering Syllabus 2025

1. Theory of Machines

Power Transmission, Gears, Governor, Flywheel.

2. Thermodynamics

Laws of Thermodynamics, Engines, Boilers, Refrigeration.

3. Fluid Mechanics

Properties of Fluid, Flow, Turbines, Pumps.

4. Strength of Materials

Stress-Strain, Bending, Torsion, Beams, Columns.

5. Production Engineering

Welding, Casting, Machining, Tools & Cutting.

6. Engineering Materials

Heat Treatment, Ferrous & Non-Ferrous Materials.

7. Industrial Engineering

Work Study, PERT/CPM, Inventory Control.

SSC JE Electrical Engineering Syllabus 2025

1. Basic Concepts

Resistance, Capacitance, Inductance, Kirchhoff Laws.

2. Circuit Theory

AC Fundamentals, RL/RC/RLC circuits, Resonance.

3. Electrical Machines

DC Motors, Transformers, Induction Motors, Synchronous Machines.

4. Measurements & Instruments

Energy Meter, Wattmeter, Potentiometers.

5. Power Systems

Generation, Transmission, Distribution, Fault Analysis.

6. Control Systems

Feedback, Transfer Function, Stability.

7. Estimation & Costing

Wiring Systems, Power Factor Improvement, Contracts.