

SSC-JE Syllabus

<p>General Intelligence & Reasoning</p>	<ul style="list-style-type: none">• 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• Non-Verbal Series• Coding and Decoding• Statement Conclusion• Syllogistic Reasoning
<p>General Awareness</p>	<ul style="list-style-type: none">• Current Affairs (National and International)• History (Indian and World History)• Geography (Indian and World Geography)• Economic Scenario• Indian Polity and Constitution• Scientific Research• Culture and Heritage• Environmental Issues• Important Days and Events• Sports

<p>Technical Section (Branch Specific) Civil Engineering</p>	<ul style="list-style-type: none"> • Building Materials • Estimating, Costing, and Valuation • Surveying • Soil Mechanics • Hydraulics • Irrigation Engineering • Transportation Engineering • Environmental Engineering • Structural Engineering
<p>Electrical Engineering</p>	<ul style="list-style-type: none"> • Basic Concepts • Circuit Law • Magnetic Circuit • AC Fundamentals • Measurement and Measuring Instruments • Electrical Machines • Synchronous Machines • Generation, Transmission, and Distribution • Estimation and Costing • Utilization of Electrical Energy • Basic Electronics
<p>Mechanical Engineering</p>	<ul style="list-style-type: none"> • Theory of Machines • Engineering Mechanics and Strength of Materials • Properties of Pure Substances • 1st and 2nd Law of Thermodynamics • Air Standard Cycles for IC Engines • IC Engine Performance • IC Engine Combustion • IC Engine Cooling & Lubrication • Rankine Cycle of Systems • Boilers

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| | <ul style="list-style-type: none">• Air Compressors & their Cycles• Refrigeration Cycles• Principles of Refrigeration Plant• Nozzles & Steam Turbines• Properties & Classification of Fluids• Fluid Statics, Measurement of Fluid Pressure• Fluid Kinematics• Dynamics of Ideal Fluids• Measurement of Flow Rate• Basic Principles• Hydraulic Turbines• Centrifugal Pumps• Classification of Materials• Properties of Conductors• Low-Carbon Steels• Alloy Steels |
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