

NHPC-JE Syllabus

General Awareness	<ul style="list-style-type: none">• Current Affairs (National and International)• Indian History• Indian Geography• Indian Polity and Constitution• Economy (Indian Economy, Banking, and Finance)• Science and Technology• Environmental Issues• Culture, Sports, Awards, and Honors• Important Days, Books, and Authors
	<ul style="list-style-type: none">•
Reasoning and General Intelligence	<ul style="list-style-type: none">• Analogies• Similarities and Differences• Space Visualization• Problem Solving• Analysis, Judgment, and Decision Making• Visual Memory• Discrimination• Observation• Relationship Concepts• Arithmetical Reasoning• Verbal and Figure Classification• Arithmetical Number Series• Non-Verbal Series• Coding and Decoding

	<ul style="list-style-type: none"> • Statement Conclusion • Syllogistic Reasoning
<p style="text-align: center;">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 (Theory of Structures, Concrete Technology, RCC Design, Steel Design) • Water Resources Engineering • Construction Planning and Management
<p style="text-align: center;">Electrical Engineering</p>	<ul style="list-style-type: none"> • Basic Concepts of Electrical Engineering • Circuit Law • Magnetic Circuit • AC Fundamentals • Measurement and Measuring Instruments • Electrical Machines (Transformers, Induction Motors, Synchronous Machines)

	<ul style="list-style-type: none">• Power Generation, Transmission, and Distribution• Estimation and Costing• Utilization of Electrical Energy• Basic Electronics• Control Systems• Electrical and Electronic Measurements• Switchgear and Protection• Power Sys
Mechanical Engineering	<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• Air Compressors & their Cycles• Refrigeration and Air Conditioning• Fluid Mechanics• Dynamics of Ideal Fluids• Measurement of Flow Rate

	<ul style="list-style-type: none">• Hydraulic Turbines and Centrifugal Pumps• Classification of Materials• Manufacturing Processes• Machine Design• Engineering Materials• Power Engineering
General English	<ul style="list-style-type: none">• Vocabulary• Grammar• Sentence Structure• Synonyms and Antonyms• Usage of Articles, Prepositions, and Conjunctions• Active and Passive Voice• Direct and Indirect Speech• Sentence Completion• Comprehension• <input type="checkbox"/> Error Spotting