

## UPPCL JE Syllabus

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### 1. Technical Knowledge:

- **Electrical Engineering:**

- Electrical Circuits and Network Theorems
- Electrical Machines (Transformers, Induction Motors, Synchronous Motors)
- Power Systems (Generation, Transmission, Distribution)
- Power Electronics and Drives
- Control Systems
- Measurements and Instrumentation
- Analog and Digital Electronics

- **Mechanical Engineering:**

- Thermodynamics
- Fluid Mechanics
- Strength of Materials
- Machine Design
- Manufacturing Processes
- Production Engineering
- Power Plant Engineering

- **Civil Engineering:**

- Structural Analysis
- Building Materials and Construction
- Surveying
- Soil Mechanics
- Hydraulics and Irrigation
- Environmental Engineering

- **Instrumentation Engineering:**

- Measurement Techniques
- Sensors and Transducers
- Control Systems
- Signal Processing
- Industrial Instrumentation

<p>2. General Awareness:</p>	<ul style="list-style-type: none"> <li>• Current Affairs (National and International)</li> <li>• Indian History (Ancient, Medieval, Modern)</li> <li>• Indian Geography (Physical and Political)</li> <li>• Indian Polity (Constitution, Governance, Political System)</li> <li>• General Science (Basic principles of Physics, Chemistry, and Biology)</li> <li>• Environment and Ecology</li> </ul>
<p>3. General Hindi and English Language:</p>	<ul style="list-style-type: none"> <li>• <b>General Hindi:</b> <ul style="list-style-type: none"> <li>• Grammar (Vocabulary, Comprehension, Sentence Formation)</li> <li>• Language Proficiency</li> </ul> </li> <li>• <b>General English:</b> <ul style="list-style-type: none"> <li>• Grammar (Vocabulary, Sentence Formation, Comprehension)</li> <li>• Language Proficiency</li> </ul> </li> </ul>

<p>UPPCL AE Syllabus:</p>	<p><b>1. Technical Knowledge:</b></p> <ul style="list-style-type: none"> <li>• <b>Electrical Engineering:</b> <ul style="list-style-type: none"> <li>○ Electrical Circuits and Network Theorems</li> <li>○ Electrical Machines (Transformers, Generators, Motors)</li> <li>○ Power Systems (Generation, Transmission, Distribution, Protection)</li> <li>○ Power Electronics</li> <li>○ Control Systems</li> <li>○ Electrical Measurements and Instrumentation</li> </ul> </li> <li>• <b>Mechanical Engineering:</b> <ul style="list-style-type: none"> <li>○ Thermodynamics</li> <li>○ Fluid Mechanics</li> <li>○ Heat Transfer</li> <li>○ Strength of Materials</li> <li>○ Manufacturing Processes</li> <li>○ Machine Design</li> <li>○ Power Plant Engineering</li> </ul> </li> <li>• <b>Civil Engineering:</b> <ul style="list-style-type: none"> <li>○ Structural Analysis</li> <li>○ Design of Concrete and Steel Structures</li> <li>○ Building Materials and Construction</li> <li>○ Soil Mechanics</li> <li>○ Water Resources and Hydraulics</li> <li>○ Surveying</li> </ul> </li> <li>• <b>Instrumentation Engineering:</b> <ul style="list-style-type: none"> <li>○ Process Control</li> <li>○ Measurement Systems and Instrumentation</li> <li>○ Control Systems</li> <li>○ Signal Processing</li> </ul> </li> </ul>
<p>2. General Awareness:</p>	<ul style="list-style-type: none"> <li>• Current Affairs (National and International)</li> <li>• Indian History</li> <li>• Indian Geography</li> <li>• Indian Polity</li> <li>• General Science</li> </ul>

<p>3. General Hindi and English Language:</p>	<ul style="list-style-type: none"> <li>• <b>General Hindi:</b> <ul style="list-style-type: none"> <li>• Vocabulary</li> <li>• Comprehension</li> <li>• Sentence Structure</li> </ul> </li> <li>• <b>General English:</b> <ul style="list-style-type: none"> <li>• Grammar</li> <li>• Vocabulary</li> <li>• Sentence Formation and Comprehension</li> </ul> </li> </ul>
<p>Preparation Tips:</p>	<ul style="list-style-type: none"> <li>• <b>Refer to Official Syllabus:</b> Always check the latest UPPCL notification for the most accurate and updated syllabus.</li> <li>• <b>Use Standard Textbooks:</b> For technical subjects, use standard textbooks and reference materials.</li> <li>• <b>Practice Previous Papers:</b> Solve previous years' papers to understand the exam pattern and question types.</li> <li>• <b>Stay Updated:</b> Keep abreast of current affairs and general knowledge through newspapers and magazines.</li> <li>• <b>Regular Revision:</b> Regularly revise all subjects to keep concepts fresh.</li> </ul>