

## **NPCIL Syllabus**

### **NPCIL Stipendiary Trainee Syllabus**

#### **NPCIL Stipendiary Trainee Syllabus for Mathematics:**

- Time and Distance
- Ratio and Proportion
- Number Systems
- Average
- Percentages
- H.C.F. & L.C.M
- Problems on Ages
- Pipes and Cisterns
- Profit and Loss
- Data Interpretation
- Time and Work
- Mixture and Alligation
- Discounts
- Boats and Streams
- Simple & Compound Interest, etc.

#### **NPCIL ST General Awareness Syllabus:**

- Latest Events
- Persons in Headlines
- Sports
- General Knowledge about Science
- Polity
- History of State And Country
- Sports Related News
- Name of Ministers
- Budget
- Latest Events
- Persons in Headlines
- Sports, etc

#### **Nuclear Power Corporation of India Limited Technician- B Syllabus for Science:**

- Organic Chemistry
- Metals and Non-Metals
- Dual Nature of Matter and Radiations
- Physical World and Measurement
- Optics



- Nutrition and Health
- Electromagnetic Waves
- Principles of Communication
- Heat Thermodynamics
- The Motion of System of Particles & Rigid Body
- Laws of Motion
- Magnetic Effect of Current and Magnetism
- Mechanics of Solids and Fluids
- Electrostatics
- Food
- Computer Science
- Physiology and Human Diseases
- Work, Energy, and Power
- Electromagnetic Induction and Alternating Current
- Atomic Nucleus / Solid and Semi-Conductor Devices
- Kinematics, etc.

### Nuclear Power Corp of India Limited Syllabus For English:

- Vocabulary.
- Fill in the blanks.
- Grammar.
- Spot the error.
- Antonyms.
- Synonyms/ Homonyms.
- Sentence structure.
- Spellings.
- Detecting Mis-spelt words.
- One word substitutions.
- Idioms and phrases.
- Improvement.
- passage.
- Verbal Comprehension passage.
- Verbs.
- Adjectives.
- Clauses.

### NPCIL Executive Trainee Syllabus For Numerical Ability:

- Operations Research & Linear Programming.
- Algebra.
- Differential Geometry.
- Differential Equations.
- Dynamics.
- Statistics.
- Basic Mathematics.
- Analytical Geometry.
- Calculus.



- Statics.
- Percentages. Menstruation.
- Fractions.
- The relationship between Numbers.
- Fundamental arithmetical operations.
- Number Systems.
- Computation of Whole Numbers

## **NPICL Scientific Assistant Exam Syllabus**

### NPCIL Scientific Assistant Syllabus – Mathematics

- Time and Distance
- Ratio and Proportion
- Number Systems
- Average
- Percentages
- C.F.
- C.M
- Problems on Ages
- Pipes and Cisterns
- Profit and Loss
- Data Interpretation
- Time and Work
- Mixture and Allegation
- Discounts
- Boats and Streams
- Simple & Compound Interest, etc.

### NPCIL SA Syllabus – General Awareness

- Latest Events
- Persons in Headlines
- Sports
- General Knowledge about Science
- Polity
- History of State And Country
- Sports-Related News
- Name of Ministers
- Budget
- Latest Events
- Persons in Headlines Sports, etc.

### NPCIL Technician Syllabus – Science

- Organic Chemistry
- Metals and Non-Metals
- Dual Nature of Matter and Radiations
- Physical World and Measurement
- Optics
- Nutrition and Health
- Electromagnetic Waves



- Principles of Communication
- Heat Thermodynamics
- The Motion of System of Particles & Rigid Body
- Laws of Motion
- Magnetic Effect of Current and Magnetism
- Mechanics of Solids and Fluids
- Electrostatics
- Food
- Computer Science
- Physiology and Human Diseases
- Work, Energy, and Power
- Electromagnetic Induction and Alternating Current
- Atomic Nucleus / Solid and Semi-Conductor Devices
- Kinematics, etc.

### NPCIL Scientific Assistant / Technician Syllabus – Concerned Subjects Mechanical

- Vector Calculus.
- The Strength of Materials.
- Fluid Mechanics.
- The design of Machine Elements.
- Refrigeration and air-conditioning.
- Engineering Materials.
- Numerical Methods.
- Probability & Statistics.
- Differential Equations.
- Theory of Machines.
- Engineering Mechanics.
- Tool Engineering.
- Operations Research.
- Joining Processes.
- Forming Processes.
- Metal Casting.

### Electrical

- Power System Analysis & Control.
- Utilization of Energy.
- Control Systems.
- Power System Protection.
- Analog and Digital Electronics.
- Power Electronics & Drives.
- Network Analysis.
- Electronics Devices.
- Power Systems.
- Electromagnetic Theory.
- Switch Gear and Protection etc.

## **NPCIL Stipendiary Trainee Exam Pattern**

**Phase I – Preliminary Test Exam Pattern:**

<u>Topic</u>	<u>No. of Questions</u>	<u>Marks</u>	<u>Duration</u>
Mathematics	20	60	1 Hour
Science	20	60	
General Awareness	10	30	
Total	50	150	

**Phase II – Advance Test Exam Pattern:**

<u>Topic</u>	<u>No. of Questions</u>	<u>Marks</u>	<u>Duration</u>
Mathematics	50	150	2 Hour
English			
General Knowledge			
Concerned Subjects			

**NPCIL Scientific Assistant Exam pattern**

<u>Type of Examination</u>	<u>Subject Name</u>
<u>Preliminary Test</u>	
Objective Type Questions	Mathematics
	General Awareness
	Science
<u>Advance Test</u>	
Objective Type Questions	Other Concern Subjects