

# **Bihar PHED Assistant Engineer Syllabus**

## **Bihar PHED Assistant Engineer Syllabus - Civil Engineering**

- A flow of Fluids, Hydraulic Machines, and Hydro Power
- Fluid Mechanics, Open Channel Flow, Pipe Flow
- Hydraulic Machines and Hydropower
- Hydrology and Water Resources Engineering
- Environmental Engineering
- Water Supply Engineering
- Building Materials
- Structural Analysis
- Design of Steel Structures
- Design of Concrete and Masonry structures
- Construction Practice
- Planning and Management
- Waste Water Engineering
- Solid Mechanics
- Solid Waste Management
- Air, Noise pollution, and Ecology
- Geotechnical Engineering and Foundation Engineering
- Surveying and Geology
- Transportation Engineering
- Highways
- Tunneling
- Railways Systems
- Harbors
- Airports

## **Public Health Engineering Department, Govt. Of Bihar Mechanical Engineering Syllabus**

- Engineering Mechanics
- Engineering Materials
- Mechanisms and Machines
- Fluid Mechanics
- IC Engines, Refrigeration and Air conditioning
- Turbo Machinery
- Thermodynamics and Heat transfer
- Power Plant Engineering
- Renewable Sources of Energy
- Design of Machine Elements
- Manufacturing
- Industrial and Maintenance Engineering
- Mechatronics and Robotics

# Bihar PHED Assistant Engineer Syllabus

phed.bih.nic.in Reasoning Syllabus

## Verbal Reasoning

- Analogy
- Series Completion
- Verification of truth of the Statement
- Situation Reaction Test
- Direction Sense Test
- Classification
- Data Sufficiency
- Alpha- Numeric Sequence Puzzle
- Puzzle Test
- Blood Relations
- Coding- Decoding
- Assertion and Reasoning
- Arithmetical Reasoning
- Operations of Mathematics
- Venn Diagrams
- Word Sequence
- Missing Characters
- Sequential Output training
- Directions
- Test on Alphabets
- Eligibility Test

## Non-Verbal Reasoning

- Dot Situation
- Identical figure groupings
- Forming figures and analysis
- Construction of squares and Triangles
- Series
- Analogy
- Analytical Reasoning
- Paper Folding
- Paper Cutting
- Cubes and Dice
- Water Images
- Mirror Images
- Figure Matrix
- Completion Incomplete Pattern

<https://sarkarirecruitment.com/>

## **Bihar PHED Assistant Engineer Syllabus**

- Spotting embedded figures
- Classification
- Rules Detection

### **लोक स्वास्थ्य इंजीनियरिंग विभाग, सरकार। बिहार का English Syllabus**

- Substitution
- Sentence Arrangement
- Transformation
- Prepositions
- Fill in the blanks
- Para Completion
- Joining Sentences
- Error Correction (Underlined Part)
- Antonyms
- Spelling Test
- Synonyms
- Idioms and Phrases
- Passage Completion
- Error Correction (Phrase in Bold)
- Spotting Errors
- Sentence Completion
- Active and Passive Voice
- Sentence Improvement

### **Bihar PHED Assistant Engineer Syllabus - Numerical Ability**

- Average
- Number System
- Profit and Loss
- Time and Distance
- Clocks and Calendars
- Problems on Trains
- Percentages
- Ratios and Proportion
- H.C.F. and L.C.M
- Pipes and Cisterns
- Problems on Ages
- Data Interpretation
- Mixture and Allegation
- Boats and Streams
- Simple & Compound Interest
- Time and Work
- Discounts

# **Bihar PHED Assistant Engineer Syllabus**

## **Public Health Engineering Department, Govt. Of Bihar General Science Syllabus**

- Natural Products and Drugs
- Nuclear Chemistry
- Chemical Kinetics and Thermodynamics
- Organic reaction mechanism and Stereochemistry
- Organometallic compounds, Bioinorganic chemistry, and Polymers
- Electrochemistry
- Analytical Chemistry and Instrumental methods
- Poisons and Pesticides
- Quantum Chemistry