

Bihar Technical Service Commission

BTSC Bihar Junior Engineer Syllabus - Mathematics

- Introduction to Three Dimensional Geometry
- Straight Lines
- Circles
- Conic Sections
- Permutations and Combinations
- Vectors
- Probability Function
- Limits and Continuity
- Applications of Derivatives
- Indefinite Integrals Binomial Theorem
- Matrices
- Determinants
- Definite Integrals
- Relations and Functions
- Logarithms
- Complex Numbers
- Quadratic Equations
- Sequences and Series
- Trigonometry
- Cartesian System of Rectangular Coordinates
- Statistics
- Differentiation
- Exponential and Logarithmic Series
- Sets and Set Theory

General Intelligence - Bihar BTSC JE Syllabus

- Arrangements
- Arithmetical Reasoning
- Mathematical Operations
- Venn diagrams
- Number Series
- Figural Pattern
- Number Ranking

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- Figurative Classification
- Classification
- Blood Relations
- Cubes and Dice
- Analogies
- Non-Verbal Series
- Coding-Decoding
- Logical Venn Diagrams
- Directions
- Number, Ranking & Time Sequence

BTSC Bihar Junior Engineer Syllabus - Reasoning

Verbal Reasoning

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

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Non-Verbal Reasoning

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

बिहार तकनीकी सेवा आयोग JE Syllabus - General Science

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

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BTSC Bihar JE General Awareness Syllabus

- National and International current affairs
- World organizations
- Countries and Capitals
- Famous Places in India
- Political Science
- Science and innovations
- New inventions
- Economic problems in India
- Geography of India
- Books and Authors
- Important Dates
- About India and it's neighboring countries
- National Dance
- Music & Literature
- Indian Culture
- Scientific observations

Bihar BTSC Junior Engineer Syllabus - Engineering Subjects

Civil Engineering

- Soil Mechanics
- Hydraulic Structure
- Professional practice
- Transportation Engineer 1 & 2 (Road)
- Quantity Estimation
- Building Planning
- Valuation
- Building Code
- Town Planning
- GIS
- Structural Analysis

Electrical Engineering

- Power Engineering

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- Engineering topics
- Switchgear & protection (MC/LV) & LT Switchgear design and testing
- Distribution HT/LT Line parameters
- Performance of line fault analysis
- Non-conventional Energy sources like Wind, Solar, Biomass
- Measurement of Electrical Power
- Distribution Network Installation & load studies
- Functions of capacitors & reactors
- Low Voltage constraint & resolving thereof
- Analysis of Dist Transformers, Meters & Testing
- Present Power Sector scenario in India and others Electrical

Mechanical Engineering

- Engineering Mechanics
- Energy conservation
- Machining and Machine Tool Operations
- Metal Casting
- The Strength of Materials
- Management Information System
- Machining and Machine Tool Operations
- Thermodynamics
- Industry Safety
- Inventory Control
- Production Planning and Control
- Computer Integrated Manufacturing Design
- Inventory Control
- Meteorology and Inspection
- Product design and Development
- Fluid Machines
- Heat Transfer
- Fluid Mechanics
- Theory of Machines
- Operations Research
- Machine Design

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- Engineering Materials