

# JEXPO 2024 Syllabus

## JEXPO 2024 Physics Syllabus

- Measurement and methods
- Force & Motion
- Reflection and Refraction of Light
- World of Colour and the Human eye
- Electricity and Electromagnetic principles
- Magnetic Effects of Electric Current
- Work, Power & Energy, Sound, Heat
- Sources of Energy
- Working of our Environment

## JEXPO 2024 Chemistry Syllabus

- Atomic Structure
- Mole Concept, Matter – Structure & Properties, Solutions
- Acids, Bases & Salts
- Separation of Components of Mixtures, Water
- Behavior of Gases
- Periodic Table and Periodicity of the Properties of Elements
- Ionic and Covalent Bonding including Chemical Calculations
- Thermal Phenomena and Thermodynamics
- Current Electricity, Electrochemistry, and Reactions
- Inorganic Chemistry
- Metallurgy, Atomic Nucleus
- Organic Chemistry

# JEXPO 2024 Mathematics Syllabus

- Real Number
  - Laws of Indices
  - Graph
  - Coordinate Geometry
  - Linear Simultaneous Equations
  - Properties of Parallelograms
  - Polynomial
  - Factorization
  - Transversal & Mid-Point Theorem
  - Profit & Loss
  - Statistics
  - Theorems on Area
  - Construction of Parallelogram
  - Construction of Triangle
  - Area & Perimeter of Triangle & Quadrilateral Shaped Region
  - Circumferences of Circle
  - Theorems on Concurrence
  - Area of Circular Region
  - Quadratic Equations with one Variable
  - Simple Interest
  - Theorem related to Circle
  - Rectangular Parallelopiped or Cuboid
  - Ratio and Proportion
  - Compound Interest
  - Theorem related to Angles in a Circle
  - Right Circular Cylinder
  - Quadratic Surd
  - Theorems related to Cyclic Quadrilateral
  - Construction of Circumcircle
  - Sphere
  - Variation
  - Partnership Business
  - Theorem related to Tangent to a circle
  - Right Circular Cone
  - Similarity
  - Construction of tangent to a Circle
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