

## **Jharkhand Polytechnic Syllabus**

### *Physics Syllabus*

- Measurement
- Kinetics
- Laws of Motion
- Work, Power, and Energy
- Kinetic Theory of Gases
- Heat and Thermal Expansion
- Thermodynamics
- Reflection of Light
- Refraction of Light
- Optical Instruments
- Electrostatics
- Current Electricity
- Transmission of Heat
- Wave Motion
- Rotatory Motion of a Rigid Body
- Gravitation
- Simple Harmonic Motion
- Hydrostatics
- Electromagnetism
- Electromagnetic Induction

### *Chemistry Syllabus*

- Elements
- Mixtures and Compounds
- Acids, Bases, Salt, and Hydrolysis
- Catalysis
- Different Chemical Reactions
- Periodic Classification of Elements
- Laws of Chemical Combination and Gas Laws
- Atomic Structure
- Valency
- Concept of Atomic
- Hydrocarbons
- Polymers
- Molecular and Equivalent Masses
- Group Elements
- Important Chemical Compounds
- Electrochemistry
- Detergents, Drugs, and Explosives.

## *Mathematics Syllabus*

- Number System
- Time and Distance
- Rational Expressions
- Logarithms
- Linear Equations
- Relations and Functions
- Trigonometric Ratios and Identities
- Trigonometrical Formulae
- Statistics
- Geometry
- Heights and Distances
- Area, Volume and Surface Area
- Rectangular Co-ordinates
- The Straight Line
- Quadratic Equations
- Factorization
- HCF and LCM
- Sets
- Time and Work
- Simple Interest and Compound Interest
- Banking
- Taxation

