

## JCECE LE Exam Pattern

Subject Name	Questions	Marks
Engineering Physics	50	50
Engineering Chemistry	50	50
Engineering Mathematics	50	50
<b>Total</b>	<b>150 Questions</b>	<b>150 Marks</b>

## JCECE ECE LE Syllabus - Subject Wise

### JCECE LE Physics Syllabus

- Mathematical Methods
- Classical Mechanics
- Relativity
- Atomic
- Molecular Physics
- Condensed Matter Physics
- Thermodynamics
- Statistical Mechanics
- Nuclear and Particle Physics
- Quantum Theory and its Applications
- Electromagnetic Theory
- Electronics
- Experimental Physics

### [jceceb.jharkhand.gov.in](http://jceceb.jharkhand.gov.in) Chemistry Syllabus

- General Chemistry

# Jharkhand Combined Entrance Competitive Examination Board



- Structure of Atom
- Electrochemistry
- Periodicity
- Solid State
- Solutions
- Classification of Elements
- Molecular Structure
- Chemical Bonding
- Surface Chemistry
- Redox Reactions
- Chemical Kinetics
- States of Matter
- Equilibrium
- Thermodynamics
- Processes of Isolation of Elements
- Coordination Compounds
- P, D, F Block Elements
- Hydrogen
- D Block Elements
- <https://www.freshersnow.com/syllabus/>
- Alkali and Alkaline earth metals (S Block)
- Haloarenes
- Alcohols
- Haloalkanes
- Aldehydes
- Phenols
- Ketones
- Ethers
- General Organic Chemistry
- Carboxylic Acids
- Biomolecules
- Hydrocarbons
- Environmental Chemistry
- Amines
- Chemistry in Everyday Life

## JCECE LE ECE Mathematics Syllabus

- Relations and Functions

# Jharkhand Combined Entrance Competitive Examination Board



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