

# CUSAT CAT 2025 Syllabus PDF

**Cochin University of Science and Technology Common Admission Test  
(CUSAT CAT)**

## CUSAT 2025 Syllabus for Physics

<b>Physics and Measurement</b>	<b>Kinematics</b>
<b>Laws of Motion</b>	<b>Work, Energy and Power</b>
<b>Gravitation</b>	<b>Properties of Solids and Liquids</b>
<b>Oscillations and Waves</b>	<b>Electrostatics</b>
<b>Magnetic Effects of Current and Magnetism</b>	<b>Electromagnetic Induction and Alternating Currents</b>
<b>Dual Nature of Matter and Radiation</b>	
<b>Electronic Devices</b>	<b>Atoms and Nuclei</b>
	<b>Communication Systems</b>

## CUSAT CAT 2025 Syllabus for Chemistry

<b>Some Basic Concepts in Chemistry</b>	<b>States of Matter</b>
<b>Atomic Structure</b>	<b>Chemical Bonding and Molecular Structure</b>
<b>Chemical Thermodynamics</b>	<b>Solutions</b>
<b>Chemical Kinetics</b>	<b>Hydrogen</b>
<b>Block Elements (Alkali and Alkaline Earth Metals)</b>	<b>Co-ordination Compounds</b>
<b>Environmental Chemistry</b>	<b>Some Basic Principles of Organic Chemistry</b>
<b>Hydrocarbons</b>	<b>Chemistry</b>
<b>Bio-Molecules</b>	<b>Polymers</b>
<b>Gaseous and Liquid States</b>	<b>Chemistry in everyday life</b>
<b>Energetic</b>	<b>Extractive Metallurgy</b>
<b>Chemical Kinetics</b>	<b>Electrochemistry</b>
<b>Carbohydrates</b>	<b>Chemical Equilibrium</b>
	<b>Atomic Structure and Chemical Bonding</b>
<b>Amino acids and Peptides</b>	

## CUSAT CAT 2025 Syllabus for Mathematics

<b>Sets, Relations and Functions</b>	<b>Complex Numbers and Quadratic Equations</b>
<b>Matrices and Determinants</b>	<b>Permutations and Combinations</b>
<b>Mathematical Induction</b>	<b>Sequences and Series</b>
<b>Limit, Continuity and Differentiability</b>	<b>Differential Equations</b>
<b>Three Dimensional Geometry</b>	<b>Vector Algebra</b>

<b>Statistics and Probability</b>	<b>Trigonometry</b>
<b>Mathematical Reasoning</b>	

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