

**DISTRICT LEVEL COMMITTEE  
FOR  
CONDUCTING INTERNAL EXAMINATION OF CLASS XI (H.S. 1<sup>st</sup> Year) AND CLASS XII  
(H.S. 2<sup>nd</sup> Year) [DLCCIE]  
DISTRICT: SRIBHUMI**

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**Syllabus for Half Yearly Examination 2025  
Higher Secondary 1<sup>st</sup> Year (Class- XI)**

**BIOLOGY**

<b>BOTANY</b>		
<b>SL. NO.</b>	<b>UNIT/CHAPTER</b>	<b>CONTENTS</b>
<b>1.</b>	Unit I: Diversity in the Living World (Chapter 1: The Living World)	All contents prescribed in the syllabus
<b>2.</b>	Unit I: Diversity in the Living World (Chapter 2: Biological Classification)	All contents prescribed in the syllabus
<b>3.</b>	Unit I: Diversity in the Living World (Chapter 3: Plant Kingdom)	All contents prescribed in the syllabus
<b>4.</b>	Unit II: Structural Organisation in Plants and Animals (Chapter 5: Morphology of Flowering Plants)	All contents prescribed in the syllabus
<b>5.</b>	Unit II: Structural Organisation in Plants and Animals (Chapter 6: Anatomy of Flowering Plants)	All contents prescribed in the syllabus
<b>6.</b>	Unit III: Cell: Structure and Functions (Chapter 8: Cell: The Unit of Life)	All contents prescribed in the syllabus
<b>ZOOLOGY</b>		
<b>7.</b>	Unit I: Diversity in the Living World (Chapter 4: Animal Kingdom)	All contents prescribed in the syllabus
<b>8.</b>	Unit II: Structural Organisation in Plants and Animals (Chapter 7: Structural Organisation in Animals)	All contents prescribed in the syllabus
<b>9.</b>	Unit III: Cell: Structure and Functions <b>Chapter 9: Biomolecules</b>	All contents prescribed in the syllabus
<b>10.</b>	Unit III: Cell: Structure and Functions <b>Chapter 10: Cell Cycle and Division</b>	All contents prescribed in the syllabus

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**CHEMISTRY**

<b>SL. NO.</b>	<b>UNIT/CHAPTER</b>	<b>CONTENTS</b>
<b>1.</b>	<b>Unit 1: Some Basic Concepts of Chemistry</b>	<b>All contents prescribed in the syllabus</b>
<b>2.</b>	<b>Unit 2: Structure of Atom</b>	<b>All contents prescribed in the syllabus</b>
<b>3.</b>	<b>Unit 3: Classification of Elements and Periodicity in Properties</b>	<b>All contents prescribed in the syllabus</b>
<b>4.</b>	<b>Unit 4: Chemical Bonding and Molecular Structure</b>	<b>All contents prescribed in the syllabus</b>
<b>5.</b>	<b>Unit 5: Chemical Thermodynamics</b>	<b>Concepts of System and types of systems, surroundings, work, heat, energy, extensive and intensive properties, state functions. First law of thermodynamics -internal energy and enthalpy, heat capacity and specific heat, measurement of U and H, Hess's law of constant heat summation, enthalpy of bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization, solution and dilution.</b>

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**COMPUTER SCIENCE AND APPLICATION**

<b>SL. NO.</b>	<b>UNIT/CHAPTER</b>	<b>CONTENTS</b>
<b>1.</b>	<b>Unit 1: Computer Fundamentals</b>	<b>All contents prescribed in the syllabus</b>
<b>2.</b>	<b>Unit 2: Introduction To C++</b>	<b>All contents prescribed in the syllabus</b>

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**Syllabus for Half Yearly Examination 2025  
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**MATHEMATICS**

<b>SL. NO.</b>	<b>UNIT/CHAPTER</b>	<b>CONTENTS</b>
<b>1.</b>	Unit I: Sets and Functions <b>(Sets)</b>	<b>All contents prescribed in the syllabus</b>
<b>2.</b>	Unit I: Sets and Functions <b>(Relations and Functions)</b>	<b>All contents prescribed in the syllabus</b>
<b>3.</b>	Unit I: Sets and Functions <b>(Trigonometric Functions)</b>	<b>All contents prescribed in the syllabus</b>
<b>4.</b>	Unit II: Algebra <b>(Complex Numbers and Quadratic Equations)</b>	<b>All contents prescribed in the syllabus</b>
<b>5.</b>	Unit II: Algebra <b>(Linear Inequalities)</b>	<b>All contents prescribed in the syllabus</b>
<b>6.</b>	Unit II: Algebra <b>(Permutations and Combinations)</b>	<b>All contents prescribed in the syllabus</b>

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**PHYSICS**

<b>SL. NO.</b>	<b>UNIT/CHAPTER</b>	<b>CONTENTS</b>
<b>1.</b>	Unit I: Physical World and Measurement <b>(Chapter 1: Physical World)</b>	<b>All contents prescribed in the syllabus</b>
<b>2.</b>	Unit I: Physical World and Measurement <b>(Chapter 2: Units and Measurements)</b>	<b>All contents prescribed in the syllabus</b>
<b>3.</b>	Unit II: Kinematics <b>(Chapter 3: Motion in a straight line)</b>	<b>All contents prescribed in the syllabus</b>
<b>4.</b>	Unit II: Kinematics <b>(Chapter 4: Motion in a Plane)</b>	<b>All contents prescribed in the syllabus</b>
<b>5.</b>	Unit III: Laws of Motion <b>(Chapter 5: Laws of Motion)</b>	<b>All contents prescribed in the syllabus</b>
<b>6.</b>	Unit IV: Work, Energy and Power <b>(Chapter 6: Work, Energy and Power)</b>	<b>All contents prescribed in the syllabus</b>
<b>7.</b>	Unit V: Motion of System of Particles and Rigid Body <b>(Chapter 7: System of Particles and Rotational Motion)</b>	<b>All contents prescribed in the syllabus</b>
<b>8.</b>	Unit VI: Gravitation <b>(Chapter 8: Gravitation)</b>	<b>All contents prescribed in the syllabus</b>

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**Syllabus for Half Yearly Examination 2025  
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**STATISTICS**

<b>SL. NO.</b>	<b>UNIT/CHAPTER</b>	<b>CONTENTS</b>
<b>1.</b>	<b>Unit I: (a) Algebra</b>	<b>All contents prescribed in the syllabus</b>
<b>2.</b>	<b>Unit I: (b) Calculus</b>	<b>All contents prescribed in the syllabus</b>
<b>3.</b>	<b>Unit II: Descriptive Statistics</b>	<b>Meaning of Statistics- Statistical data and Statistics subject. Origin, Development, Scope and limitations of Statistics. Idea of Statistical population and sample. Different types of data- primary and secondary data and methods of their collection. Time series data, Spatial data, Attribute (qualitative) data and Variable (quantitative) data. Frequency distribution, Graphical representation of frequency distribution Histogram, Frequency polygon, Frequency curve, Ogive. Measures of location- Arithmetic mean, Geometric mean, Harmonic mean, Median, Mode and their properties. Partition Values- Quartiles, Deciles, Percentiles. Graphical location of Mode, Quartiles, Deciles and Percentiles.</b>

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**CHEMISTRY**

<b>SL. NO.</b>	<b>UNIT/CHAPTER</b>	<b>CONTENTS</b>
<b>1.</b>	<b>Unit 1: Solutions</b>	<b>All contents prescribed in the syllabus</b>
<b>2.</b>	<b>Unit 2: Electrochemistry</b>	<b>All contents prescribed in the syllabus</b>
<b>3.</b>	<b>Unit 3: Chemical Kinetics</b>	<b>All contents prescribed in the syllabus</b>
<b>4.</b>	<b>Unit 4: d and f Block Elements</b>	<b>All contents prescribed in the syllabus</b>
<b>5.</b>	<b>Unit 5: Coordination Compounds</b>	<b>All contents prescribed in the syllabus</b>
<b>6.</b>	<b>Unit 6: Haloalkanes and Haloarenes</b>	<b>All contents prescribed in the syllabus</b>

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**PHYSICS**

<b>SL. NO.</b>	<b>UNIT/CHAPTER</b>	<b>CONTENTS</b>
<b>1.</b>	Unit I: Electrostatics <b>(Chapter 1: Electric Charges and Fields)</b>	<b>All contents prescribed in the syllabus</b>
<b>2.</b>	Unit I: Electrostatics <b>(Chapter 2: Electrostatic Potential and Capacitance)</b>	<b>All contents prescribed in the syllabus</b>
<b>3.</b>	Unit II: Current Electricity <b>(Chapter 3: Current Electricity)</b>	<b>All contents prescribed in the syllabus</b>
<b>4.</b>	Unit III: Magnetic Effects of Current and Magnetism <b>(Chapter 4: Moving Charges and Magnetism)</b>	<b>All contents prescribed in the syllabus</b>
<b>5.</b>	Unit III: Magnetic Effects of Current and Magnetism <b>(Chapter 5: Magnetism and Matter)</b>	<b>All contents prescribed in the syllabus</b>
<b>6.</b>	Unit IV: Electromagnetic Induction and Alternating Currents <b>(Chapter 6: Electromagnetic Induction)</b>	<b>All contents prescribed in the syllabus</b>
<b>7.</b>	Unit IV: Electromagnetic Induction and Alternating Currents <b>(Chapter 7: Alternating Currents)</b>	<b>All contents prescribed in the syllabus</b>
<b>8.</b>	Unit V: Electromagnetic waves <b>(Chapter 8: Electromagnetic waves)</b>	<b>All contents prescribed in the syllabus</b>
<b>9.</b>	Unit VII: Dual Nature of Radiation and Matter <b>(Chapter 11: Dual Nature of Radiation and Matter)</b>	<b>All contents prescribed in the syllabus</b>
<b>10.</b>	Unit VIII: Atoms and Nuclei <b>(Chapter 12: Atoms)</b>	<b>All contents prescribed in the syllabus</b>



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**MATHEMATICS**

<b>SL. NO.</b>	<b>UNIT/CHAPTER</b>	<b>CONTENTS</b>
<b>1.</b>	Unit I: Relations and Functions <b>1. Relations and Functions</b>	<b>All contents prescribed in the syllabus</b>
<b>2.</b>	Unit I: Relations and Functions <b>2. Inverse Trigonometric Functions</b>	<b>All contents prescribed in the syllabus</b>
<b>3.</b>	Unit II: Algebra <b>1. Matrices</b>	<b>All contents prescribed in the syllabus</b>
<b>4.</b>	Unit II: Algebra <b>2. Determinants</b>	<b>All contents prescribed in the syllabus</b>
<b>5.</b>	Unit III: Calculus <b>1. Continuity and Differentiability</b>	<b>All contents prescribed in the syllabus</b>
<b>6.</b>	Unit III: Calculus <b>2. Application of Derivatives</b>	<b>All contents prescribed in the syllabus</b>
<b>7.</b>	Unit III: Calculus <b>3. Integrals</b>	<b>All contents prescribed in the syllabus</b>

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**BIOLOGY**

<b>BOTANY</b>		
<b>SL. NO.</b>	<b>UNIT/CHAPTER</b>	<b>CONTENTS</b>
1.	Unit VI: Reproduction (Chapter 1: Sexual Reproduction in Flowering Plants)	All contents prescribed in the syllabus
2.	Unit VIII: Biology in Human Welfare (Chapter 8: Microbes in Human Welfare)	All contents prescribed in the syllabus
3.	Unit IX: Biotechnology (Chapter 9: Biotechnology: Principles and Processes)	All contents prescribed in the syllabus
4.	Unit IX: Biotechnology (Chapter 10: Biotechnology and its Application)	All contents prescribed in the syllabus
5.	Unit X: Ecology (Chapter 14: Bioresources of Assam)	All contents prescribed in the syllabus
<b>ZOOLOGY</b>		
6.	Unit VI: Reproduction (Chapter 2: Human Reproduction)	All contents prescribed in the syllabus
7.	Unit VI: Reproduction (Chapter 3: Reproductive Health)	All contents prescribed in the syllabus
8.	Unit-VII: Genetics and Evolution (Chapter 4: Principles of Inheritance and Variation)	All contents prescribed in the syllabus
9.	Unit-VII: Genetics and Evolution (Chapter 5: Molecular Basis of Inheritance)	All contents prescribed in the syllabus
10.	Unit-VIII: Biology in Human Welfare (Chapter 7: Human Health and Diseases)	All contents prescribed in the syllabus
11.	Unit X: Ecology (Chapter 12: Ecosystems)	All contents prescribed in the syllabus
12.	Unit X: Ecology (Chapter 14: Bioresources of Assam)	All contents prescribed in the syllabus

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**COMPUTER SCIENCE AND APPLICATION**

<b>SL. NO.</b>	<b>UNIT/CHAPTER</b>	<b>CONTENTS</b>
<b>1.</b>	<b>Unit 1: Object Oriented Programming in C++</b>	<b>All contents prescribed in the syllabus</b>
<b>2.</b>	<b>Unit 2: Data Structures</b>	<b>All contents prescribed in the syllabus</b>

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**STATISTICS**

<b>SL. NO.</b>	<b>UNIT/CHAPTER</b>	<b>CONTENTS</b>
<b>1.</b>	<b>Unit I: Calculus of Finite Difference</b>	<b>All contents prescribed in the syllabus</b>
<b>2.</b>	<b>Unit II: Theory of Probability and Random Variable and Distribution</b>	<b>All contents prescribed in the syllabus</b>