

**TELANGANA STATE BOARD OF INTERMEDIATE EDUCATION: HYDERABAD**

**ANNUAL ACADEMIC PLAN 2025-26**

**CHEMISTRY**

**II YEAR**

<b>Month &amp; No. of working days/ No. of periods</b>	<b>Chapter and Topics to be covered</b>	<b>No. of periods allotted for each topic</b>
<b>June 23</b>	Syllabus dictation and discussion of IPE question paper – weightage of marks to each chapter	<b>01</b>
	<b>1. SOLID STATE</b>	
	1.1 General Characteristics of Solid State	
	1.2 Amorphous and Crystalline Solids	<b>02</b>
	1.3 Classification of Crystalline Solids	
	1.4 Probing the structure of solids: X-ray crystallography	
	1.5 Crystal Lattices and Unit Cells	<b>02</b>
	1.6 Number of Atoms in a Unit Cell	
	1.7 Close Packed Structures	
	1.8 Packing Efficiency	
	1.9 Calculations Involving Unit Cell Dimensions	<b>02</b>
	1.10 Imperfections in Solids	
	1.11 Electrical Properties	<b>02</b>
	1.12 Magnetic Properties	
	<b>2. SOLUTIONS</b>	
	2.1 Types of Solutions	<b>02</b>
	2.2 Expressing Concentration of Solutions	
2.3 Solubility	<b>03</b>	
2.4 Vapour Pressure of Liquid Solutions		
2.5 Ideal and Non-ideal Solution	<b>02</b>	
2.6 Colligative Properties and Determination of Molar Mass	<b>02</b>	
2.7 Abnormal Molar Masses	<b>04</b>	
	<b>EAPCET CLASSES</b>	<b>01</b>
	<b>EAPCET – TEST 1</b>	
<b>July 25</b>	<b>3. ELECTROCHEMISTRY AND CHEMICAL KINETICS</b>	
	3.1 Electrochemical Cells	<b>01</b>
	3.2 Galvanic Cells	<b>03</b>
	3.3 Nernst Equation	<b>01</b>
	3.4 Conductance of Electrolytic Solutions	<b>01</b>
	3.5 Electrolytic Cells and Electrolysis	<b>02</b>
	3.6 Batteries	
	3.7 Fuel Cells	<b>01</b>



September 22	<b>6. p-BLOCK ELEMENTS GROUP-15 ELEMENTS</b>	
	6.1 Introduction	
	6.2 Dinitrogen	<b>01</b>
	6.3 Ammonia	<b>01</b>
	6.4 Oxides of nitrogen	
	6.5 Nitric acid	<b>01</b>
	6.6 Phosphorous-allotropic forms	
	6.7 Phosphine	
	6.8 Phosphorous halides	<b>01</b>
	6.9 Oxoacids of phosphorous	
	<b>GROUP-16 ELEMENTS</b>	
	6.10 Introduction	<b>01</b>
	6.11 Dioxygen	
	6.12 Simple Oxides	<b>01</b>
	6.13 Ozone	<b>01</b>
	6.14 Sulphur-Allotropic forms	
	6.15 Sulphur dioxide	<b>01</b>
	6.16 Oxoacids of Sulphur	<b>01</b>
	6.17 Sulphuric Acid	
	<b>GROUP-17 ELEMENTS</b>	
	6.18 Introduction	<b>01</b>
	6.19 Chlorine	<b>01</b>
6.20 Hydrogen Chloride	<b>01</b>	
6.21 Oxoacids of Halogens	<b>01</b>	
6.22 Interhalogen Compounds		
<b>GROUP-18 ELEMENTS</b>		
6.23 Introduction- Occurance, Electronic configuration Ionisation Enthalpy, Atomic radii, Electron Gain Enthalpy Physical and Chemical properties	<b>02</b>	
<b>PRACTICALS :</b>		
<b>D. Electrochemistry E. Chromatography</b>		
<b>F. Preparation of Inorganic Compounds</b>		
<b>EAPCET CLASSES</b>		
<b>EAPCET – TEST 4</b>		
<b>UNIT TEST – 3</b>		
	<b>04</b>	
	<b>01</b>	
	<b>01</b>	
	<b>MID TERM HOLIDAYS</b>	
	<b>FROM 28-09-2025 TO 05-10-2025</b>	
	<b>DATE OF RE-OPENING 06-10-2025</b>	

October 21	<b>7. d AND f BLOCK ELEMENTS &amp; COORDINATION COMPOUNDS</b>	<b>01</b>
	7.1 Position in the Periodic Table	<b>01</b>
	7.2 Electronic Configuration	<b>01</b>
	7.3 General Properties of Transition Elements (d-Block)	
	7.4 Some Important Compounds of Transition Elements	
	7.5 Inner Transition Elements(f-Block)	<b>01</b>
	7.6 Actinoids	<b>01</b>
	7.7 Some Applications of d and f Block Elements	<b>01</b>
	7.8 Werner's Theory of Coordination Compounds	<b>01</b>
	7.9 Definitions of Some Terms used in Coordination Compounds	<b>01</b>
	7.10 Nomenclature of Coordination Compounds	<b>02</b>
	7.11 Isomerism in Coordination Compounds	<b>01</b>
	7.12 Bonding in Coordination Compounds	<b>01</b>
	7.13 Bonding in Metal Carbonyls	<b>01</b>
	7.14 Stability of Coordination Compounds	<b>01</b>
	7.15 Importance and Applications of Coordination Compounds	<b>01</b>
	<b>EAPCET CLASSES</b>	<b>04</b>
<b>EAPCET – TEST 5</b>	<b>01</b>	
November 23	<b>8. POLYMERS</b>	
	8.1 Classification of Polymers	<b>01</b>
	8.2 Types of Polymerization Reactions	<b>01</b>
	8.3 Molecular Mass of Polymers	<b>01</b>
	8.4 Biodegradable Polymers	<b>01</b>
	8.5 Polymers of Commercial Importance	<b>01</b>
	<b>9. BIOMOLECULES</b>	
	9.1 Carbohydrates	<b>01</b>
	9.2 Proteins	<b>01</b>
	9.3 Enzymes	<b>01</b>
	9.4 Vitamins	<b>01</b>
	9.5. Nucleic acids	<b>01</b>
	9.6 Hormones	
	<b>10. CHEMISTRY IN EVERYDAY LIFE</b>	
	10.1 Drugs and their Classification	<b>01</b>
	10.2 Drug-Target Interaction	
	10.3 Therapeutic Action of Different Classes of Drugs	
10.4 Chemicals in Food	<b>01</b>	
10.5 Cleansing Agents		
<b>PRACTICALS : G. Preparation of Organic Compounds</b>	<b>01</b>	

	<p><b>H.</b> Tests for the functional groups present in organic compounds</p> <p><b>I.</b> Characteristic tests of carbohydrates, fats and Proteins</p> <p style="text-align: center;"><b>EAPCET CLASSES HALF YEARLY EXAMINATIONS FROM 10-11-2025 TO 15-11-2025</b></p>	<p><b>01</b></p> <p><b>01</b></p> <p><b>03</b></p> <p><b>06</b></p>
<p><b>December 24</b></p>	<p><b>11. HALO ALKANES AND HALOARENES</b></p> <p>11.1 Classification</p> <p>11.2 Nature of C-X bond</p> <p>11.3 Methods of Preparation</p> <p>11.4 Physical Properties</p> <p>11.5 Chemical Reactions</p> <p>11.6 Polyhalogen Compounds</p> <p><b>12. ORGANIC COMPOUNDS CONTAINING C, H AND O (Alcohols, Phenols, Ethers, Aldehydes)</b></p> <p><b>Alcohols, Phenols, Ethers</b></p> <p>12.1 Classification -Alcohols, Phenols and Ethers</p> <p>12.2 Nomenclature- Alcohols, Phenols and Ethers</p> <p>12.3 Structures of Hydroxy and Ether Functional Groups</p> <p>12.4 Alcohols and Phenols</p> <p>12.5 Physical Properties</p> <p>12.6 Chemical Reactions</p> <p>12.7 Some Commercially Important Alcohols</p> <p>12.8 Ethers</p> <p><b>Aldehydes and Ketones</b></p> <p>12.9 Nomenclature and Structure of Carbonyl Group</p> <p>12.10 Preparation of Aldehydes and ketones.</p> <p>12.11 Physical Properties</p> <p>12.12 Chemical Reactions</p> <p>12.13 Uses of Aldehydes and Ketones</p> <p><b>PRACTICALS : J.</b> Determination of concentration/molarity of <math>\text{KMnO}_4</math> solution by titrating it against a standard solution of:</p> <p><b>(i)</b> Oxalic acid,</p> <p><b>(ii)</b> Ferrous ammonium sulphate</p> <p style="text-align: center;"><b>EAPCET CLASSES EAPCET – TEST 6 UNIT TEST-IV</b></p>	<p><b>01</b></p> <p><b>04</b></p> <p><b>01</b></p> <p><b>01</b></p>

	<p><b>Carboxylic Acids</b></p> <p>12.14 Nomenclature and Structure of Carboxyl Group</p> <p>12.15 Methods of Preparation of Carboxylic Acids</p> <p>12.16 Physical Properties</p> <p>12.17 Chemical Reactions</p> <p>12.18 Uses of Carboxylic Acids</p> <p><b>13. ORGANIC COMPOUNDS CONTAINING NITROGEN</b></p> <p><b>Amines</b></p> <p>13.1 Structure of Amines</p> <p>13.2 Classification</p> <p>13.3 Nomenclature</p> <p>13.4 Preparation of Amines</p> <p>13.5 Physical Properties</p> <p>13.6 Chemical Reactions</p> <p><b>Diazonium salts</b></p> <p>13.7 Methods of Preparation of Diazonium Salts</p> <p>13.8 Physical Properties</p> <p>13.9 Chemical Reactions</p> <p>13.10 Importance of Diazonium Salts in Synthesis of Aromatic Compounds</p> <p><b>Cyanides and Isocyanides</b></p> <p>13.11 Structure of cyanides and isocyanides</p> <p>13.12 Preparation</p>	<p><b>01</b></p>
January 19	<p><b>REVISION</b></p> <p><b>PREPARATION OFR PRE-FINAL EXAMINATIONS</b></p> <p><b>PRACTICALS : K.</b> Qualitative analysis Determination of one cation and one anion in a given salt containing anions and cations studied in I year (Salts : 1 to 12)</p> <p><b>EAPCET CLASSES</b></p> <p><b>SANKRANTHI HOLIDAYS</b> <b>FROM 11-01-2026 TO 18-01-2026</b> <b>PRE-FINAL EXAMINATIONS</b> <b>FROM 19-01-2026TO 24-01-2026</b></p>	<p><b>06</b></p> <p><b>04</b></p> <p><b>03</b></p> <p><b>06</b></p>

<b>February 24</b>	<b>PROJECT REVISION I.P.E. PRACTICALS 2026</b>	<b>24</b>
<b>March 23</b>	<b>I.P.E. THEORY EXAMINATIONS 1<sup>ST</sup> WEEK OF MARCH 2026 LAST WORKING DAY: 31.03.2026</b>	
	<b>SUMMER VACATION FROM 01-04-2026 TO 31-05-2026 ADVANCED SUPPLIMENTARY EXAMINATIONS (IPASE) Last week of May 2026 Re-Opening of Colleges : 01-06-2026</b>	

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