

TELANGANA STATE BOARD OF INTERMEDIATE EDUCATION: HYDERABAD

ANNUAL ACADEMIC PLAN 2024-25

CHEMISTRY

II YEAR

Month & No. of working days/ No. of periods	Chapter and Topics to be covered	No. of periods allotted for each topic
June 23	Syllabus dictation and discussion of IPE question paper – weightage of marks to each chapter 1. SOLID STATE 1.1 General Characteristics of Solid State 1.2 Amorphous and Crystalline Solids 1.3 Classification of Crystalline Solids 1.4 Probing the structure of solids: X-ray crystallography 1.5 Crystal Lattices and Unit Cells 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 1.10 Imperfections in Solids 1.11 Electrical Properties 1.12 Magnetic Properties 2. SOLUTIONS 2.1 Types of Solutions 2.2 Expressing Concentration of Solutions 2.3 Solubility 2.4 Vapour Pressure of Liquid Solutions 2.5 Ideal and Non-ideal Solution 2.6 Colligative Properties and Determination of Molar Mass 2.7 Abnormal Molar Masses EAPCET CLASSES EAPCET – TEST 1	01 08 09 04 01
July 24	3. ELECTROCHEMISTRY AND CHEMICAL KINETICS 3.1 Electrochemical Cells 3.2 Galvanic Cells 3.3 Nernst Equation 3.4 Conductance of Electrolytic Solutions 3.5 Electrolytic Cells and Electrolysis	10

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<p>December 23</p>	<p>11. HALO ALKANES AND HALOARENES 11.1 Classification 11.2 Nature of C-X bond 11.3 Methods of Preparation 11.4 Physical Properties 11.5 Chemical Reactions 11.6 Polyhalogen Compounds 12. ORGANIC COMPOUNDS CONTAINING C, H AND O (Alcohols, Phenols, Ethers, Aldehydes and Ketones) 12.1 Classification -Alcohols, Phenols and Ethers 12.2 Nomenclature- Alcohols, Phenols and Ethers 12.3 Structures of Hydroxy and Ether Functional Groups 12.4 Alcohols and Phenols 12.5 Physical Properties 12.6 Chemical Reactions 12.7 Some Commercially Important Alcohols 12.8 Ethers Aldehydes and Ketones 12.9 Nomenclature and Structure of Carbonyl Group 12.10 Preparation of Aldehydes and ketones. 12.11 Physical Properties 12.12 Chemical Reactions 12.13 Uses of Aldehydes and Ketones PRACTICALS : J. Determination of concentration/molarity of KMnO_4 solution by titrating it against a standard solution of: (i) Oxalic acid, (ii) Ferrous ammonium sulphate</p> <p style="text-align: center;">EAPCET CLASSES EAPCET – TEST 6 UNIT TEST-IV</p>	<p>07</p> <p>10</p> <p>04 01 01</p>
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<p>January 22</p>	<p>Carboxylic Acids</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>13. ORGANIC COMPOUNDS CONTAINING NITROGEN</p> <p>Amines</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>Diazonium salts</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>Cyanides and Isocyanides</p> <p>13.11 Structure of cyanides and isocyanides</p> <p>13.12 Preparation</p> <p>PREPARATION OF PRE-FINAL EXAMINATIONS</p> <p>PRACTICALS : K. 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>EAPCET CLASSES</p> <p>SANKRANTHI HOLIDAYS FROM 11-01-2025 TO 16-01-2025 PRE-FINAL EXAMINATIONS FROM 20-01-2025 TO 25-01-2025</p>	<p>02</p> <p>05</p> <p>05</p> <p>04</p> <p>06</p>
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February 23	PROJECT REVISION I.P.E. PRACTICALS 2025	23
March 23	I.P.E. THEORY EXAMINATIONS 1ST WEEK OF MARCH 2025 LAST WORKING DAY: 29.03.2025	
	SUMMER VACATION FROM 30-03-2025 TO 01-06-2025 ADVANCED SUPPLEMENTARY EXAMINATIONS (IPASE) Last week of May 2025 Re-Opening of Colleges : 02-06-2025	

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