

P.N.DAS COLLEGE

DEPT OF CHEMISTRY

ACADEMIC CALENDAR (2024-25)

Semester Details	Topic coverage	Practical	NO Of Lectures Theory + Practical	Name of the teacher
<b>SEM-I (UNDER-NEP2020) MA-1</b> <b>CREDITS: Theory-03, practical-02</b> <b>AUG-JAN</b>	Atomic structure, periodicity, acid-base, organic chemistry kinetic theory of gases, liquid state	1.Preparation of standard solution 2.Determination of surface tension and viscosity 3.Determination of single solid and liquid	45+60	Partha Pratim Bhattacharya
<b>SEM-III (UNDER NEP MODE)</b> <b>CREDITS: Theory-04, practical-02</b>				

<p style="text-align: center;"><b>SEP-JAN</b></p>				
<p><b>SEM-V (UNDER CBCS MODE)</b>  <b>CEMGDSE01T(POLYMER)</b>  <b>CREDITS: Theory-06, Practicals-02</b>  <b>SEP-JAN</b></p>	<p style="text-align: center;">History of polymeric materials, Functionality, Kinetics of polymerization, Crystallization, Structure of polymer, polymer solution, Preparation of some important polymer like NYLON, NOVALAC, SILICON POLYMER, ETC</p>	<ol style="list-style-type: none"> <li>1.Determination of molecular weight by viscometry</li> <li>2.Determination of molecular weight by end group analysis</li> <li>3.Preparation of urea-formaldehyde resin.</li> <li>4.Redox polymerization of acrylamide</li> <li>5.Testing mechanical property of polymer</li> </ol>	<p style="text-align: center;">60+60</p>	<p style="text-align: center;">Partha Pratim Bhattacharya</p>

<p><b>SEM-II</b> <b>(UNDER NEP)</b> <b>MA-2, CREDITS:</b> <b>Theory-</b> <b>Practical-</b> <b>FEB-JUN</b></p>	<p>Chemical bonding &amp; molecular structure, stereochemistry, chemical energetics, equilibrium, .</p>	<p>1.Estimation of Fe(ii) in Mohr's salt 2.Estimation of Cu(II) By iodometrically . 3.Detection of special elements(N,Cl) &amp; COOH, -OH, ArNH<sub>2</sub>, -ArNO<sub>2</sub>. 4.Determination of solubility product of KHTa</p>	<p>45+60</p>	<p>Partha Pratim Bhattacharya .</p>
<p><b>SEM-IV</b> <b>(UNDER NEP MODE)</b>  <b>CREDITS:</b> <b>Theory-</b> <b>Practical-</b> <b>FEB-JUN.</b></p>				

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<p><b>SEM-VI</b> <b>(UNDER CBCS</b> <b>MODE)</b> <b>CEMGDSE03T</b> <b>CREDITS: Theory-04,</b> <b>Practical-02</b></p>	<p>Silicate industry Fertilizer Surface coating Battery Alloys Catalysis Chemical explosives.</p>	<p>1. Analysis of cement 2. Preparation of ZnO 3. Estimation of calcium in calcium ammonium nitrate 4. Estimation of phosphoric acid in superphosphate 5. Determination of composition of dolomite.</p>	<p>60+60</p>	<p>Partha Pratim Bhattacharya .</p>
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