P.N.DAS COLLEGE

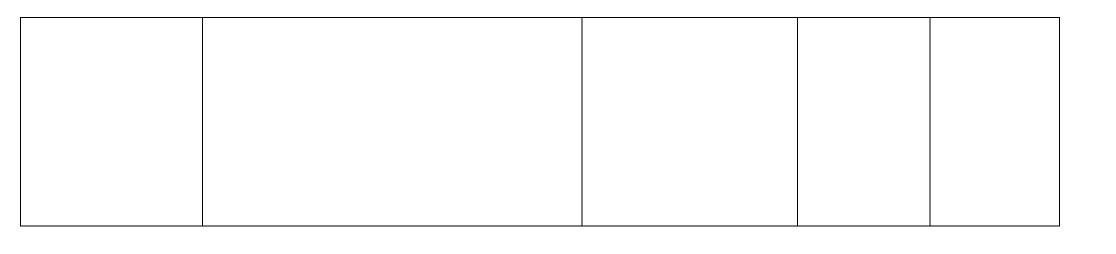
DEPT OF CHEMISTRY

ACADEMIC CALENDAR (2024-25)

Semester Details	Topic coverage	Practical	NO Of Lectures Theory + Practical	Name of the teacher
SEM-I (UNDER- NEP2020) MA-1 CREDITS: Theory- 03, practical-02 AUG-JAN	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
SEM-III (UNDER NEP MODE) CREDITS: Theory- 04, practical-02				

SEP-JAN				
SEM-V (UNDER CBCS MODE) CEMGDSE01T(POL YMER) CREDITS: Theory- 06, Practicals-02 SEP-JAN	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	1.Determination of molecular weight by viscometry 2.Determination of molecular weight by end group analysis 3.Preparation of ureaformaldehyde resin. 4.Redox polymerization of acrylamide 5.Testing mechanical property of polymer	60+60	Partha Pratim Bhattacharya

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



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