

# P.N.DAS COLLEGE

## DEPARTMENT OF CHEMISTRY

### ACADEMIC CALENDAR (2019-2020)

	Topic Coverage	Practical	No. of Classes		Name of the Teacher
			Th	Pr	
SEM-I CEMGCOR01T Credit: Theory-04 Practical-02	Atomic Structure Chemical Periodicity Acid, Base, Redox Basic Organic Chemistry Reaction Mechanism and Hydrocarbons	Estimation of Oxalic Acid by titrating it with $\text{KMnO}_4$  Solubility and Classification (solvents: $\text{H}_2\text{O}$ , dil HCl, dil NaOH)	10 5 15  13  17	60	Partha Pratim Bhattacharya
SEM-II CEMGCOR02T Credit: Theory-04 Practical-02	Theory of Bases Liquid Solid Chemical Kinetics Chemical Bonding Comparative Study of p-block	Study of the variation of viscosity of an aqueous solution with concentration of solute Qualitative Analysis of Acid Radical-Cl-, Br-, I- Basic Radicals- $\text{Na}^+$ , $\text{K}^+$ , $\text{Ca}^{2+}$	10 06 06 08 16  14	60	Partha Pratim Bhattacharya

SEM-III CEMGCOR03T Credit: Theory-04 Practical-02	Chemical Energetics Chemical Equilibrium Ionic Equilibrium Aromatic Compounds Organometallic Aryl Halides Phenol, Alcohol, Ether Carbonyl Compounds	Determination of enthalpy of ionization of acetic acid and hydration of copper sulphate  Study of Solubility of Benzoic Acid in water	14 08 08  06 02 03  11  08	60	Partha Pratim Bhattacharya
SEM-IV CEMGCOR04T Credit: Theory-04 Practical-02	Solutions Phase Diagram Conductance EMF Chemical Analysis Environmental Chemistry	Construction of the phase diagram of a binary system using cooling curves  Potentiometric Titration: Potassium dichromate vs. Mohr's Salt	04 08 08 08 15  15	60	Partha Pratim Bhattacharya
SEM-V CEMGDSE01T (Polymer Chemistry) Credits: Theory-04 Practical-02	History of Polymeric Materials Kinetics of Polymerisation Crystallinity Structure of Polymer Determine Molecular weight of Polymer Polymer Solution Glass transition temperature Properties of Polymers	Precipitation of Polymerisation of Acrylonitrile  Preparations of Novolac Resins/ Resold Resin	04  06 04 04  04 06  06 08	60	Partha Pratim Bhattacharya

SEM-VI CEMGDSE03T (Industrial Chemistry) Credit: Theory-04 Practical-02	Silicate Industry Fertiliser Surface Chemistry Batteries Alloys Explosives Catalysis	Determination of composition of dolomite (by complexometric titration)  Preparation of pigment(Zinc Oxide)	16 10 06 06 06 04 06	60	Partha Pratim Bhattacharya
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