

# CHEMISTRY-I

## Course Objectives:

- (1) To understand the basics of quantum mechanical concepts and spectroscopy.
- (2) To predict the bulk properties and processes using thermodynamic considerations.
- (3) To learn an introductory idea about new materials.
- (4) To understand the fundamental concepts on fuels and corrosion chemistry.

## Module I: [10Classes]

Quantum Chemistry and Spectroscopy: Basic concepts and postulates of quantum mechanics. Introduction to Schrodinger Wave Equation (without derivation), Particle in a box: Energy levels, quantum numbers and selection rule.

Spectroscopy: Lambert Beer's Law, Principles and applications of UV-Visible Molecular Absorption Spectroscopy; Chromophores, applications on quantitative analysis. Effect of conjugation on chromophores, Absorption by aromatic systems, introductory idea on rotational and vibrational Spectroscopy Principles and application to diatomic molecules.

## Module II: [8 Classes]

The phase rule: Statement of Gibb's phase rule and explanation of the terms involved, Phase diagram of one component system – water and sulfur system, Condensed phase rule, Phase diagram of two component system – Eutectic Bi-Cd, Pb-Tin system & Isomorphous System.

## Module III: [ 10 Classes]

Fuels: Classification of fuels, calorific value (Determination by Dulong's formula), G.C.V. and N.C.V., Solid fuels, Analysis of coal. Liquid fuels: Classification of petroleum, Refining of petroleum, Cracking, Knocking and anti knocking, cetane and octane numbers. Unleaded petrol, synthetic petrol, power alcohol. Gaseous Fuel: Producer gas, Water gas, LPG, CNG, Kerosene gas, Combustion calculation.

## Module IV: [ 08 Classes]

Corrosion: Electrochemical theory of corrosion, galvanic series, Types of corrosion; Differential metal corrosion, Differential aeration corrosion (Pitting and water line corrosion), Stress corrosion (caustic embrittlement in boilers), Factors affecting, metal coatings – Galvanizing and Tinning, Corrosion inhibitors, cathodic protection.

## Module-V: [10 Classes]

New Materials: Introduction to nanomaterials, classification (0D, 1D, 2D) with examples, size dependent properties, Top-down and Bottom-up approaches of nanomaterial synthesis, Introductory idea on synthesis of nanomaterials via green synthetic route. Application of nanomaterials in environmental fields and electronic devices.

## Text Books:

1. Engineering Chemistry (NPTEL web-book) by B. L. Tembe, Kamaludddin and M. S. Krishan.
2. Text Book in Applied Chemistry by A. N. Acharya and B. Samantaray, Pearson India.

# Engineering Chemistry For 2sem

**Dr. V. C. Sinha, Anju Agarwal**



## Engineering Chemistry For 2sem:

**Engineering Chemistry-I (For 2nd Semester of Anna University)** Arun Luiz T., Dr Arun Luiz T is currently working as Assistant Professor at SSN College of Engineering Kalavakkam He completed his Master in science from St Mary s College University of Calicut Sulthan Bathery Kerala in 2002 He Stood First in his College for B sc and M sc Chemistry He received his Ph D in Inorganic Chemistry from IIT Madras in the year 2010 His research interest includes phosphorus based ligands in synthetic inorganic chemistry and organometallic chemistry He has Published four research papers in reputed national and international journals He has more than four years of teaching experience in various engineering colleges NEP

Environmental Science 2nd Sem (AEC) Dr. V. C. Sinha, Anju Agarwal, 2024-03-16 1 Multidisciplinary Nature of Environmental Science Scope and Importance 2 Concept of Sustainability and Sustainable Development 3 Ecosystem 4 Natural Resources Renewable and Non Renewable Resources and Land Resources 5 Forest Resources Deforestation 6 Water Resources 7 Food Resources 8 Energy Resources 9 Biodiversity and Its Conservation 10 Environmental Pollution 11 Environmental Policies and Practices 12 Human Community and Environment

**College of Engineering** University of Washington. College of Engineering, 1911 **Catalogue and Circular (1878/79, 1884/85 "Circular") of the Illinois Industrial University (later "of the University of Illinois")** University of Illinois (Urbana-Champaign campus), 1901 **Catalogue** University of Pittsburgh, 1926 **Year-book** University of Southern California, 1918 *Catalogue* University of Washington, Wash.) University of Washington (Seattle, 1910 *Circular of Information* University of Southern California, 1918 *Catalogue of the Schools of Engineering and Agriculture* Washington University (Saint Louis, Mo.). School of Engineering and Applied Science, 1930 **Report of the Board of Trustees of the University of Illinois** University of Illinois (Urbana-Champaign campus). Board of Trustees, 1928 Catalogue of the University of the Pacific College of the Pacific, 1930 *Report - University of Illinois Board of Trustees* University of Illinois (System). Board of Trustees, 1926 General Catalog University of Missouri, 1903 Transactions of the Board of Trustees University of Illinois (System). Board of Trustees, 1926 **Report of the Board of Trustees** University of Illinois (Urbana-Champaign campus), 1928 **Catalogue** University of North Dakota, 1923 *General Catalog* Iowa State University, 1917 *Catalogue of the University of Cincinnati* University of Cincinnati, 1891 **Intercolonial Gas Journal of Canada** , 1914 Publications Washington University (Saint Louis, Mo.), 1928

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