

Department of Chemistry Course specific outcome

Name of Teachers: 1. Dr. R.C. Sharma 2. Mrs Monika Puri 3. Dr. H. S. Jamwal Courses: CHEM201TH: Solutions, Phase **Subject: Chemistry** Equilibrium, Conductance, Electrochemistry and Organic Chemistry. CHEM202TH: Chemistry of main group Chemical **Energetics** elements, Equilibria. **CHEM SEC 203TH: Basic Analytical** Chemistry CHEM SEC 204TH: Fuel Chemistry &

Course specific outcome Course **CHEM 201TH:** CO1: Students will understand the difference between ideal, nonideal and partially miscible solutions, Nernst distribution law and Solutions, Phase its applications. Equilibrium,Conductance, **Electrochemistry and** CO2:Students will understand the terms involved in phase **Organic Chemistry** equilibrium like phase, component and degree of freedom.Using concepts of distribution law & phase equilibrium they will be able to describe one or multi component system, salt hydrolysis, distribution indicator and also extraction of metals from its ores. **CO3**:Students will understand basic concepts of electrochemistry like EMF of cell, reversible and irreversible cells, electrode of potential. electro chemical series and applications electrochemistry. **CO4**:Students will understand concept of conductance, equivalent and molar conductivity, Transport no. and its experimental

Course Code: CHEM201TH, CHEM201PR CHEM202TH, CHEM202PR **CHEM203TH& CHEM204TH**

Class: BSc 2ndyear

Chemistry of Cosmetics and Perfumes



and

	determination, applications of conductance measurements.
	CO5 : Students will know about different type of conductometric and potentiometric titrations.
	CO6 : Students will understand nomenclature, methods of preparation, physical and chemical properties of1) carboxylic acids and its derivatives, 2) Amines and Diazonium salts, 3)Amino acids, peptides and proteins, and 4) Carbohydrates.
CHEM 201PR	CO1: Study of distribution law and its applications to determine distribution coefficient.
Solutions, Phase Equilibrium, Conductance, Electrochemistry and Organic Chemistry	CO2 : To determine cell constant and equivalent conductance of weak acids.
Organic Chemistry	CO3 : To perform conductometric and potentiometric titrations.
	CO4 : To Prepare organic compounds-iodoform and glucosazone.
	CO5 : To distinguish between reducing and non-reducing sugars.
CHEM 202TH	CO1 : General properties and behavior of elements in the periodic table (s and p Block).
Elements,Chemical Energetics & Equilibrium	CO2 : Preparation, properties and structure of important compounds of noble gases.
	CO3 : Basic terms, laws and principles of Thermodynamics. Make students to understand working of engines, need and application of third law of thermodynamics.
	CO4 :Detailed description of chemical equilibrium, Concepts of weak and strong electrolyte and Buffer solution.
CHEM 202 PR	CO1 :To understand the detailed scheme to analyse the given inorganic mixture for two acidic andbasic radicals
Chemistry of Main group	
Elements, Chemical	CO2: To determine the water equivalent, heat of
Energeucs & Equilibrium	calorimetrically.
	CO3 : Use pH meter to determine the pH of buffer solutions.
CHEM SEC 203TH	CO1:Skill enhancement courses are designed to increase the

Basic Analytical Chemistry	experimental skill of students in chemistry.
	CO2 : This course develops the analytical thinking and awareness, includes basic analytical terms and its applications to soil, food and environment.
	CO3 : This course develops industrial skills and awareness regarding adulterations, contaminants and pollutants etc.
CHEM SEC 204TH Fuel Chemistry & Chemistry of Cosmetics and Perfumes	 CO1:The course includes the chemistry of fuel, cosmetics and perfumes. Students will know about the synthesis and different chemical aspects of above said commercial products. CO2:Study about synthesis and refining of petrochemical fuels and lubricants. CO3: Graduates will create knowledge of cosmetics and perfume
	synthesis and their uses.