

## Program Outcomes: B.Sc. (UG)

PO No.	Program Outcomes
	<b>At the end of the program, student will be able to</b>
<b>PO-1</b>	Identify the basic knowledge related with concepts of commerce
<b>PO-2</b>	Acquire theoretical and practical knowledge related with marketing, administration, costing and banking sector.
<b>PO-3</b>	Develop communication skill, managerial skill and soft skill among learner.
<b>PO-4</b>	Apply critical thinking in Accounting, Taxation, Management, Business Law and improve problem solving skill among Lerner's.
<b>PO-5</b>	Differentiate and understand global, National and Local challenges in contexts with Marketing, Human resource, Finance and information technology area.
<b>PO-6</b>	Understand and equipped to face upcoming challenges in the industry and business as the specializations offered expose them to practical aspects.
<b>PO-7</b>	Develop competency in students to make them employable in the global market.
<b>PO-8</b>	Prove themselves in different professional exams like C.A. , C S, CMA, MPSC, UPSC. As well as other coerces
<b>PO-9</b>	Enhance marketing, human resource & finance related practical knowledge of students.
<b>PO-10</b>	Empower the student to read, evaluate and critically assess independently and formulate their own ideas with respect to the current scenario
<b>PO-11</b>	Create responsible citizens as various academic and co-curricular courses imbibe sensitivity, moral and ethical values among them.

## Program Specific Outcome: B. Sc. Chemistry (UG)

PSO No.	Program Specific Outcome
	<b>At the end of the program, student will be able to-</b>
<b>PSO1</b>	Have sound knowledge, strong foundation and the ability to understand fundamental principles, concepts and recent development in the different branches of chemistry.
<b>PSO2</b>	Apply the knowledge acquired to understand, interpret, analyse mathematical derivations and solve numerical problems, mechanism, analytical interpretations using chemistry concepts and knowledge.
<b>PSO3</b>	Know the concept and properties of zeolites, nanochemistry, coordination and organometallic compounds and behaviour of elements in periodic table and analyse the chemistry of various biomolecules natural products and their functions.
<b>PSO4</b>	Explain and clarify the understanding of thermodynamic, spectroscopic, kinetic and quantum models, stereochemistry and mechanism of organic reactions, chemical bonding and structure elucidation, analytical techniques and solving numerical problems.
<b>PSO5</b>	Employ critical thinking and scientific methods to design, carry out, record and analyse the result of chemical experiments and gain knowledge of working of various instruments used in chemical analysis and skills in the operation of standard instruments used in chemistry.
<b>PSO6</b>	Inculcate the responsibility and sense of ethical, social and environmental awareness and demonstrate knowledge of need for sustainable development.

## Course Outcomes: B. Sc. Chemistry (UG)

Class/ Sem.	Course Code & Course Title	Course Outcomes
<b>At the end of the course the student will be able to</b>		
<b>F.Y.B.Sc. Sem-I</b>	<b>CH-101 Physical Chemistry (Paper I)</b>	<b>CO1:</b> Learn the thermodynamic principles, calculation of different types of energies. Exergonic and Endergonic reaction, Gas equilibrium.
		<b>CO2:</b> Understand the concept of pH of different salts, buffer solution, common ion effect.
		<b>CO3:</b> Explain the concepts of equilibrium and formulae
		<b>CO4:</b> Make a list of mathematical formulae.
		<b>CO5:</b> Solve numerical problems.
	<b>CH-102 Organic Chemistry (Paper II)</b>	<b>CO1:</b> Define isomerism, its types, Stereochemistry
		<b>CO2:</b> Describe fundamentals principles and developments of organic chemistry
		<b>CO3:</b> Draw stereochemistry of isomers
		<b>CO4:</b> Identify Functional group for aliphatic hydrocarbons
		<b>CO5:</b> Explain difference in alkaline alkene and alkyne.
	<b>CH-103 Chemistry Practical (Paper III)</b>	<b>CO1:</b> Know the Chemical safety and Lab safety
		<b>CO2:</b> Learnt the Determination of thermochemical parameters.
		<b>CO3:</b> Understand the techniques of pH measurements, preparation of buffer solutions.
		<b>CO4:</b> Perform the calculations.
		<b>CO5:</b> Acquire the knowledge of Elemental analysis of organic compounds, chromatographs, techniques for separation of constituents of mixtures.
<b>F.Y.B.Sc. Sem-II</b>	<b>CH-201 Inorganic Chemistry (Paper I)</b>	<b>CO1:</b> Understand the various theories and principles of atomic structure.
		<b>CO2:</b> Explain the origin of quantum mechanics, Schrodinger equation. Significance of quantum numbers, shapes of orbital.
		<b>CO3:</b> Learn skeleton of periodic table and periodicity.
		<b>CO4:</b> List the theories for chemical bonding and draw conclusions
		<b>CO5:</b> Explain Types of bonds and understanding geometry of different molecules.
	<b>CH-202</b>	<b>CO1:</b> Learn introduction to Analytical Chemistry.
		<b>CO2:</b> Understand relation between molecular formula and empirical formula.

	<b>Analytical Chemistry (Paper II)</b>	<b>C03:</b> Acquire the knowledge of separation of binary mixtures and their analysis.	
		<b>C04:</b> Know basic of chromatography.	
		<b>C05:</b> Learn Applications of pH meter	
	<b>CH-203 Chemistry Practical (Paper III)</b>	<b>C01:</b> Understand Inorganic Estimations using volumetric analysis.	
		<b>C02:</b> Learn synthesis of Inorganic compounds.	
		<b>C03:</b> Study Analysis of commercial products.	
		<b>C04:</b> Understand Purification of organic compounds Preparation and mechanism of reaction involved.	
		<b>C05:</b> Find conclusions.	
	<b>S.Y.B.Sc. Sem-III</b>	<b>CH-301 Physical and Analytical Chemistry (Paper I)</b>	<b>C01:</b> Explain/ discuss/ derive integrated rate laws, characteristics, expression for half-life and examples of zero order, first order, and second order reactions.
			<b>C02:</b> Determine the order of reaction by integrated rate equation method, graphical method, half-life method and differential method.
<b>C03:</b> Apply adsorption process to real life problem, discuss factors influencing adsorption, its characteristics, differentiates types as physisorption and Chemisorption			
<b>C04:</b> Define / explain adsorption, classification of given processes into physical and chemical adsorption. Study explanation of adsorption results in the light of Langmuir adsorption isotherm, Freundlich's adsorption Isotherm and BET theory.			
<b>C05:</b> Apply the methods of expressing the errors in analysis from Results, Apply statistical methods to express his/her analytical results in laboratory.			
<b>C06:</b> Perform calculations involved in volumetric analysis. Analyze suitable volumetric methods of analysis to real problem in analytical chemistry / industry.			
<b>CH-302 Inorganic and Organic Chemistry (Paper II)</b>		<b>C01:</b> Define terms related to molecular orbital theory (AO, MO, sigma bond, pi bond, bond order, magnetic property of molecules, etc). Explain formation of different types of MO's from AO's.	
		<b>C02:</b> Apply MOT to explain bonding in diatomic molecules other than explained in syllabus	
		<b>C03:</b> Explain Werner's theory of coordination compounds. Differentiate between primary and secondary valency. Correlate coordination number and structure of complex ion.	
		<b>C04:</b> Identify and draw the structures of aromatic hydrocarbons, alkyl / aryl halides from their names. Explain / Discuss important reactions of aromatic hydrocarbon.	

		<p><b>C05:</b> Able to differentiate between alcohols and phenols. Understand synthesis of expected alcohols / phenols. Write / discuss the mechanism of various reactions involved.</p>	
	<p><b>CH-303 Chemistry Practical-III (Paper-III)</b></p>	<p><b>C01:</b> Interpret the experimental data on the basis of theoretical principles.</p>	
		<p><b>C02:</b> Correlate theory to experiments. Understand/verify theoretical principles by experiment observations; explain practical output / data with the help of theory.</p>	
		<p><b>C03:</b> Perform organic and inorganic synthesis and is able to follow the progress of the chemical reaction by suitable method</p>	
		<p><b>C04:</b> Learn Systematic working skill in laboratory will be imparted in student.</p>	
<p><b>S.Y. B.Sc. Sem-IV</b></p>	<p><b>CH-401 Physical and Analytical Chemistry (Paper I)</b></p>	<p><b>C01:</b> Define and understand the terms in phase equilibria such as- system, phase in system, components in system, degree of freedom, one / two component system, phase rule</p>	
		<p><b>C02:</b> Discuss thermodynamic aspects of Ideal solutions-Gibbs free energy change, Volume change, Enthalpy change and entropy change of mixing of Ideal solution.</p>	
		<p><b>C03:</b> Differentiate between ideal and non-ideal solutions and can apply Raoult's law. Apply solvent extraction to separate the components of from mixture interest.</p>	
		<p><b>C04:</b> Explain Kohlrausch's law and its Applications, Conductivity Cell, Conductivity Meter, Whetstone Bridge. Apply conductometric methods of analysis to real problem in analytical laboratory.</p>	
		<p><b>C05:</b> Explain construction and working of colorimeter. Justify colorimetric methods of analysis to real problem in analytical laboratory.</p>	
		<p><b>C06:</b> Explain / define different terms in column chromatography. Apply column chromatographic process for real analysis in analytical laboratory.</p>	
		<p><b>CH-402 Inorganic and Organic chemistry (Paper II)</b></p>	<p><b>C01:</b> Explain different types of isomerism in coordination complexes.</p>
			<p><b>C02:</b> Apply principles of VBT to explain bonding in coordination compound of different geometries. Identify / explain / discuss inner and outer orbital complexes.</p>
			<p><b>C03:</b> Apply crystal field theory to different type of complexes (Td, Oh, Sq, Pl complexes) Estimate field stabilization energy and magnetic moment for various complexes.</p>
			<p><b>C04:</b> Identify and draw the structures aldehydes and ketones from their names or from structure name can be assigned. Explain / discuss synthesis of aldehydes and ketones.</p>

T.Y.B.Sc. Sem-V		<p><b>C05:</b> Discuss important reactions of carboxylic acids and their derivatives, Give synthesis of expected carboxylic acids and their derivatives. Analyze characteristic reactions of carboxylic acids.</p>
		<p><b>C06:</b> Identify and draw the structures of amines from their names. Discuss synthesis of carboxylic amines.</p>
		<p><b>C07:</b> Define terms such as axial hydrogen, equatorial hydrogen, confirmation, substituted cyclohexane, etc. Draw the structures of different conformations of cyclohexane.</p>
	<b>CH-403 Chemistry Practical- IV (Paper III)</b>	<p><b>C01:</b> Interpret the experimental data on the basis of theoretical principles.</p>
		<p><b>C02:</b> Correlate theory to experiments. Understand/verify theoretical principles by experiment observations; explain practical output / data with the help of theory.</p>
		<p><b>C03:</b> Perform organic and inorganic synthesis and able to follow the progress of the chemical reaction.</p>
		<p><b>C04:</b> Learn Systematic working skill in laboratory, examine systematic methods of identification of substance by chemical methods.</p>
		<p><b>C05:</b> Perform the quantitative chemical analysis of substances and able to explain principles behind it.</p>
	<b>CH-501 Physical Chemistry I (Paper-I)</b>	<p><b>C01:</b> Know historical of development of quantum mechanics in chemistry. Understand the operators: Position, momentum and energy</p>
		<p><b>C02:</b> Solving Schrodinger equation for 1D, 2D and 3D model</p>
		<p><b>C03:</b> Understand the term specific volume, molar volume and molar refraction. Classify molecules on the basis of moment of Inertia</p>
		<p><b>C04:</b> Draw the Stokes and anti-Stokes lines in a Raman spectrum, differentiate Rayleigh, Stokes and anti-Stokes lines in a Raman spectrum.</p>
		<p><b>C05</b> Learn photochemical laws: Grothus - Draper law, Stark-Einstein law, Define / understand Photochemical reactions: photosynthesis, photolysis, photocatalysis, photosensitization</p>
	<b>CH-502 Analytical Chemistry (Paper-II)</b>	<p><b>C01:</b> Perform quantitative calculations depending upon equations student has studied in the theory. Furthermore, student should able to solve problems on the basis of theory.</p>
		<p><b>C02:</b> Explain different principles involved in the gravimetry, spectrophotometry, parameters in instrumental analysis, qualitative analysis.</p>
<p><b>C03:</b> Design analytical procedure for given sample.</p>		
<p><b>C04:</b> Apply whatever theoretical principles he has studied in theory during practical session in laboratory.</p>		

	<b>CH-504 Inorganic Chemistry-I (Paper-IV)</b>	<b>C01:</b> Able to compare the different approaches to bonding in Coordination compounds. Explain MOT of Octahedral complexes with sigma bonding.
		<b>C02:</b> Classify reactions of coordination compounds. Know the basic mechanisms of ligand substitution reactions
		<b>C03:</b> Substitution reactions of square planer complexes. Make up the proposed mechanism for substitution reactions of square planer complexes. Know the Tran's effect and applications of Trans effect.
		<b>C04:</b> Evaluate the trends in periodic properties of these elements w.r.t. size of atom and ions, reactivity, catalytic activity, oxidation state, complex formation ability, color, magnetic properties, non-stoichiometry, density, melting point, boiling point.
		<b>C05:</b> Define basic terms like f-block elements, Inner transition elements, lanthanides, actinides. Understand IUPAC nomenclature for super heavy elements with atomic no. 100 onwards.
	<b>CH-505 Industrial Chemistry (Paper-V)</b>	<b>C01:</b> Know importance of chemical industry.
		<b>C02:</b> Know the physico-chemical principals involved in manufacturing process.
		<b>C03:</b> Prepare concentration of juice by using multiple effect evaporator system.
		<b>C04:</b> Learn meaning of the term's Surfactants, types of surfactants
	<b>CH-507 Organic Chemistry-I (Paper-VII)</b>	<b>C01:</b> Define and classify polynuclear and hetreonuclear aromatic hydrocarbons.
		<b>C02:</b> Show active methylene groups.
		<b>C03:</b> Determine synthetic applications ethyl acetoacetate and malonic ester.
		<b>C04:</b> Explain stereochemistry by using models and learn reactivity of geometrical isomers.
		<b>C05:</b> Explain the factors affecting rate of elimination reactions.
		<b>C06:</b> Identify Functional group for compounds.
<b>CH-508 Chemistry of Biomolecules (Paper-VIII)</b>	<b>C01:</b> Define the terms.	
	<b>C02:</b> Understanding of Cell types, Difference between a bacterial cell, Plant cell and animal cell. Biological composition and organization of cell membrane, structure and function of various cell organelles of plant and animal cell. Concepts of biomolecules, Bonds that link monomeric units to form macromolecules.	
	<b>C03:</b> Learn types of carbohydrates and their biochemical significance in living organisms, structure of carbohydrates.	

		<p><b>C04:</b> Learn equations of enzyme kinetics <math>K_m</math> and its significance, features of various types of enzyme inhibitions, industrial applications of enzymes.</p>
		<p><b>C05:</b> Understand biochemical nature of hormones. Mechanism of action of lipophilic and hydrophilic hormones.</p>
		<p><b>C06:</b> Explain molecules involved in the life of living organisms.</p>
	<p><b>CH-510 (B) Polymer Chemistry  (Paper-X)</b></p>	<p><b>C01:</b> Define the terms-Monomer, Polymer, Polymerization, Degree of polymerization, Functionality, Number average, Weight average molecular weight. Understand history of polymers.</p>
		<p><b>C02:</b> Differentiate simple compounds and polymer, also natural, synthetic, organic and inorganic polymers</p>
		<p><b>C03:</b> Identify the role of polymer industry in the economy, Learn names of polymers.</p>
		<p><b>C04:</b> Acquire the knowledge of various ways of nomenclature. Compose mechanisms of polymerization</p>
		<p><b>C05:</b> Understand Difference between natural, synthetic, organic and inorganic polymers. Criticize uses &amp; properties of polymers.</p>
		<p><b>C06:</b> Explain brief introduction to preparation, structure, properties and application of import polymers.</p>
	<p><b>CH-511 (A) Environmental Chemistry  (Paper-XI)</b></p>	<p><b>C01:</b> Understand the importance and conservation of environment.</p>
		<p><b>C02:</b> Understand the importance of biogeochemical cycles.</p>
		<p><b>C03:</b> Learn organic and inorganic pollutants.</p>
		<p><b>C04:</b> Analyze water quality parameters</p>
	<p><b>CH-503 Physical Chemistry Practical-I  (Paper-III)</b></p>	<p><b>C01:</b> Evaluate the specific refractivity's of the given liquids A and B and their mixture and hence determine the percentage composition their mixture C.</p>
		<p><b>C02:</b> Illustrate the molecular refractivity of the given liquids A, B, C and D.</p>
		<p><b>C03:</b> Discuss &amp; Determine the order of reaction for the oxidation of alcohol by potassium dichromate and potassium permanganate in acidic medium calorimetrically.</p>
		<p><b>C04:</b> Define &amp; examine the relative strength of monochloro acetic acid and acetic acid conductometrically.</p>
	<p><b>CH-506 Inorganic Chemistry Practical-I  (Paper-VI)</b></p>	<p><b>C01:</b> Perform gravimetric estimation of different elements using various methods</p>
		<p><b>C02:</b> Analyze sodium bicarbonate from mixture by thermal decomposition method, Prepare various inorganic complex and spot tests for various elements</p>
		<p><b>C03:</b> Define and Determine of water of crystallization by thermal decomposition Perform qualitative analysis of inorganic binary mixture.</p>

		C04: Study binary mixture with removal of borate and phosphate.
	<b>CH-509 Organic Chemistry Practical-I  (Paper-IX)</b>	C01: Write chemical equations.
		C02: Prepare solutions.
		C03: Find out quantities of reactants for reactions.
		C04: Perform the experiments.
		C05: Prepare various organic derivatives.
		C06: Use microscale equipments
<b>T.Y.B.Sc.  Sem-VI</b>	<b>CH-601 Physical Chemistry-II  (Paper-I)</b>	C01: Discuss Electrochemical cells: Explanation of Daniell cell, Conventions to represent electrochemical cells.
		C02: Understand and evaluate Nernst Equation for theoretical determination of EMF.
		C03: Distinguish between crystalline and amorphous solids / anisotropic and isotropic solids, Interpret X ray analysis of NaCl crystal system and Calculation of $d$ and $\lambda$ for a crystal system
		C04: Understand detection and Measurement of Radioactivity: Cloud chamber, Ionization Chamber, Geiger-Muller Counter, Scintillation Counter, Film Badges.
		C05: Make use of Kinetics of Radioactive Decay, Half-life, average life and units of radioactivity. Learn energy released in nuclear reaction: Einstein's equation, Mass Defect, Nuclear Binding Energy
	<b>CH-602 Physical Chemistry-III  (Paper-II)</b>	C01: Learn meaning of the terms-Solution, electrolytes, nonelectrolytes and colligative properties.
		C02: Identify important concepts of Lowering of vapour pressure of solvent in solution, Elevation of B.P. of solvent in solution, Freezing point depression, Applying rate laws for solid state reactions, Results of kinetics studies, Band structure in solids – Na, Ca and diamond
		C03: Explain Landsberger's method, Beckmann's method, Berkeley and Hartley method, abnormal molecular weight, Relation between Vant Hoff's factor and degree of dissociation of electrolyte by colligative property, , Rate laws for reactions in solid state, Cohesive Energy of ionic crystals based on coulomb's law and Born Haber Cycle, Correspondence between energy levels in the atom and energy bands in solid, Chemical bonding & Molecular forces in Polymer, Practical significance of polymer molecular weights
		C04: Compare/Classify/Examine the Application of colligative properties to determine molecular weight of nonelectrolyte, Factors affecting on solid state reactions, Conductors and insulators – Its correlation with Extent of energy in energy

		bands, Classification of polymers
		<b>C05:</b> Determine/Interpret/Justify/Evaluate/Select: Degree of dissociation and Vant Hoff's factor, Temperature dependant conductivity semiconductors, Phenomena of photoconductivity, Molecular weight of polymers
		<b>C06:</b> Construct/Create/Discuss/predict/Propose/Solve Role of impurity in transformation of insulator into semiconductor Numericals based colligative properties, cohesive energy, rate laws, Molecular weight determination
	<b>CH-604 Inorganic Chemistry-II (Paper-IV)</b>	<b>C01:</b> Understand M-C bond and to define organometallic compounds. Discuss methods of synthesis of binary metal carbonyls
		<b>C02:</b> Understand the structure and bonding using valence electron count (18 ele. rule)
		<b>C03:</b> Evaluate the essential properties of homogeneous catalysts- Give the catalytic reactions for Wilkinson's Catalysis, hydroformylation reaction, Monsanto acetic acid synthesis, Heck reaction.
		<b>C04:</b> Analyze the role of metals in non-enzymatic processes, Identify the biological role of inorganic ions & compounds.
		<b>C05:</b> Identify and discover ionic liquids, their preparations, and their significance w.r.t green chemistry.
	<b>CH-605 Inorganic Chemistry-III (Paper-V)</b>	<b>C01:</b> Learn strength of various types acids.
		<b>C02:</b> Identify the C.N. of an ion in ionic solid.
		<b>C03:</b> Illistrate the effect of radius ratio in determining the crystal structure.
		<b>C04:</b> Examine and Study Zeolite synthesis and their structure.
		<b>C05:</b> Evaluate stabilization of nanoparticles in solution, Applications of Nanoparticles and discuss the biological impacts of toxic chemicals.
	<b>CH-607 Organic Chemistry-II (Paper-VII)</b>	<b>C01:</b> Understand interaction of radiations with matter.
		<b>C02:</b> Classify different regions of electromagnetic radiations.
		<b>C03:</b> Draw the structures.
		<b>C04:</b> Design the structure.
		<b>C05:</b> Explain principle of NMR spectroscopy and understand various terms used in NMR spectroscopy.
		<b>C06:</b> Use models and to draw different types of conformational isomers of decalin in chair form.
	<b>CH-608 Organic Chemistry-III (Paper-VIII)</b>	<b>C01:</b> Define the terms.
		<b>C02:</b> Understand retrosynthetic analysis and its application.
		<b>C03:</b> Learn various steps involved in the synthesis of some molecules.
		<b>C04:</b> Deduce the mechanism of some named Rearrangement reactions.

		<b>C05:</b> Explain various methods of isolation of natural products.
<b>CH-610 (B) Introduction of Forensic Chemistry (Paper-X)</b>	<b>C01:</b> Learn the significance of forensic science to human society.	
	<b>C02:</b> Understand the work nature in a forensic science laboratory.	
	<b>C03:</b> Know the classification and characteristics of the narcotics, drugs and psychotropic substances.	
	<b>C04:</b> Understand the methods of identifying of narcotics, drugs and psychotropic substance	
<b>CH-611 (A) Analytical Chemistry (Paper-XI)</b>	<b>C01:</b> Define basic terms in solvent extraction, basics of chromatography, HPLC, GC, and AAS and AES. Some important terms are: solvent extraction, aqueous and organic phase, distribution ratio and coefficient, solute remain unextracted.	
	<b>C02:</b> Identify important parameters in analytical processes or estimations.	
	<b>C03:</b> Explain different principles involved in the analyses using solvent extraction, basics of instrumental chromatography, HPLC, GC, and atomic spectroscopic techniques.	
	<b>C04:</b> Discuss / Describe procedure for different types analyses included in the syllabus and Design analytical procedure for given sample	
	<b>C05:</b> Select particular method of analysis if analyte sample is given to him and Differentiate / distinguish / compare among the different analytical terms, process and analytical methods.	
<b>CH-603 Physical Chemistry Practical-II (Paper-III)</b>	<b>C01:</b> Determine the PKa value of given monobasic weak acid by potentiometric titration.	
	<b>C02:</b> Estimate the amount of Cl <sup>-</sup> , Br <sup>-</sup> and I <sup>-</sup> in given unknown halide mixture by titrating it against standard AgNO <sub>3</sub> solution (mixture of any two ions).	
	<b>C03:</b> Inspect Pka of given weak acid by pH metry titration with strong base.	
	<b>C04:</b> Define and illustrate plateau voltage of the given G M counter.	
	<b>C05:</b> Determine the molecular weight of given electrolyte and non-electrolyte by Landsberger's method and to study the abnormal molecular weight of electrolyte	
	<b>C06:</b> Analyze crystal structure from X-ray diffraction spectra of any two compounds (Calculation d, lattice constant, crystal volume and density, and assigning planes to peaks using JCPDS data)	
<b>CH-606 Inorganic Chemistry</b>	<b>C01:</b> Analyze amount of Phosphate (PO <sub>4</sub> <sup>3-</sup> ) from Fertilizer.	
	<b>C02:</b> Know the analysis of Calcium from milk powder.	
	<b>C03:</b> Estimate of Na by flame photometry by regression method.	
	<b>C04:</b> Estimate of K by flame photometry by calibration curve method. Relate the results obtained by different methods.	

	<b>Practical-II (Paper-VI)</b>	<b>C05:</b> Understand Purification of water using cation/anion exchange resin and analysis by qualitative analysis /conductometry.
		<b>C06:</b> Understand periodic trends using solubility of alkaline earth metal hydroxides Ca(OH) <sub>2</sub> , Mg(OH) <sub>2</sub> , Cr(OH) <sub>2</sub> , Ba(OH) <sub>2</sub> . IR spectra.
	<b>CH-609 Organic Chemistry Practical- II  (Paper-IX)</b>	<b>C01:</b> Prepare the reagents and solutions.
		<b>C02:</b> Identify functional group of organic compound from given
		<b>C03:</b> Apply the principles.
		<b>C04:</b> Analyze the spectra.
		<b>C05:</b> Extract different molecules from natural products
		<b>C05:</b> Identify the functional group or groups present in a compound.