HARIMOHAN GHOSE COLLEGE

Department of Chemistry

Teaching Plan

Semester –I_General/Pass Course

Semester	Paper	Торіс	Faculty Name	Session
Ι	CC1/GE1 (TH) CC1/GE1	 (i) Kinetic theory of gases and real gases (ii) Liquids (iii) Chemical Kinetics (iv) Atomic Structures (v) Chemical Periodicity (vi) Acids and bases (vii) Fundamentalsof Organic Chemistry (viii) Stereochemistry NucleophilicSubstitution and Elimination Reactions (i) Acid-Base Titration 	Mrs. Pampa Ghosh DR NilufaKhatun DR NilufaKhatun	July-Dec
	(PR)	(ii) Redox titration	& Mrs. Pampa Ghosh	

Semester -II_General/Pass Course

Semester	Paper	Торіс	Faculty Name	Session
	CC2/GE2 (TH)	 (i) Chemical Thermodynamics (ii) Chemical Equilibrium (iii) Solutions (iv) Phase Equilibria (v) Solids (1st part) 	Mrs. Pampa Ghosh	
П		 (vi) Solids (2nd part) (vii) Aliphatic Hydrocarbons (vii) Error Analysis and Computer Applications (viii)Redox reactions 	DR NilufaKhatun	January - June
	CC2/GE2 (PR)	 (i)Study of kinetics (ii) Study of viscosity and surface tension of unknown liquid (iii) Determination of solubility of sparingly soluble salt (iv) Preparation of buffer solutions 	DR NilufaKhatun& Mrs. Pampa Ghosh	

Semester	Paper	Торіс	Faculty Name	Session
III	CC3/GE3 (TH)	 (i) Chemical Bonding and Molecular Structure (ii) Transition Elements (3d series) (iii) Aromatic Hydrocarbons (iv) Organometallic Compounds (v) Aryl Halides (vi) Comparative study of p-block elements (vi) Coordination Chemistry (vii) Ionic Equilibria (viii) Conductance (viii) Electromotive force 	DR NilufaKhatun Mrs. Pampa Ghosh	July- December
	CC3/GE3 (PR)	Qualitative semimicro analysis of mixtures containing two radicals	DR NilufaKhatun& Mrs. Pampa Ghosh	
	SEC-B1 (SEC-3)	Pharmaceuticals Chemistry Drugs and pharmaceuticals Fermentation	DR NilufaKhatun& Mrs. Pampa Ghosh	

Semester -III_General/Pass Course

Semester	Paper	Торіс	Faculty Name	Session
IV	CC4/GE4 (TH)	 (i) Alcohols, Phenols and Ethers (ii) Crystal Field Theory (iii) Quantum Chemistry & Spectroscopy 	DR NilufaKhatun	January - June
		 (iv)Carbonyl Compounds (v) Carboxylic Acids and Their Derivatives (vi) Amines and Diazonium Salts Amino Acids and Carbohydrates 	Mrs. Pampa Ghosh	
	CC4/GE4 (PR)	(i) Qualitative Analysis of Single Solid Organic Compound(s)(ii) Identification of a pure organic compound	DR NilufaKhatun& Mrs. Pampa Ghosh	
	SEC-B2 (SEC-4)	Pesticide Chemistry General introduction of pesticides, synthesis, and technical manufactures, uses of representatives pesticides	Mrs. Pampa Ghosh	

Semester -IV_General/Pass Course

Semester	Paper	Торіс	Faculty Name	Session
v	DSE-A2 (TH)	Inorganic materials industrial importance (i) Silicate Industries (ii) Fertilizers (iii) Surface Coatings (iv)Batteries (v) Alloys (vi) Catalysis (Vii) Chemical explosives	Mrs. Pampa Ghosh	
	DSE-A2 (PR)	 (i) Analysis of fertilizers and alloys (ii) Determination of composition of cement & dolomite (iii) Preparation of pigments 	DR NilufaKhatun	July - December
	SEC-A2 (SEC-2)	Analytical clinical biochemistry(i) Carbohydrates(ii) Proteins(iii)Enzymes(iv)Lipids(v) Lipoproteins(Vi) Structure and biological rolesof DNA and RNA(Vii) Diagnostic approach of BloodandUrine	DR NilufaKhatun	

Semester -V_General/Pass Course

Semester	Paper	Торіс	Faculty Name	Session
VI	DSE-B1 (TH)	Green chemistry and chemistry of natural products(i) Introduction to Green Chemistry(ii) Principles of Green Chemistry Designing ofgreen chemical 	DR NilufaKhatun	January -
		(v) Alkaloids(vi) Terpenes	Mrs. Pampa Ghosh	June
	DSE-B1 (PR)	Organic products synthesis by green methods	DR NilufaKhatun	

Semester -- VI_General/Pass Course