



গড়গাঁও মহাবিদ্যালয়

GARGAON COLLEGE



Course Distribution
Department of Chemistry
2021-22

Course distribution 2021-22

C1 Inorganic Chemistry

Faculty name	Semester		Paper Code	Unit wise division	
Mr. Ranjit Dutta	I	H	C-101	Unit III: Chemical Bonding	
		H	C-101-LAB	(A) Titrimetric Analysis (B) Acid-Base Titrations (C) Oxidation-Reduction Titrimetry	
		GE	GE-101 LAB	Section A: Inorganic Volumetric Analysis	
	III	H	C-301	Unit III: Chemistry of s and p Block Elements	
		H	C-301-LAB	A. Iodo / Iodimetric Titrations B. Inorganic preparations	
		GE	N/A	N/A	
	V (H)		N/A	N/A	
	Dr. Pakiza Begum	I	H	C-101	Unit I: Atomic Structure Unit II: Periodicity of Elements Unit IV: Oxidation-Reduction
			H	C-101-LAB	(A) Titrimetric Analysis (B) Acid-Base Titrations (C) Oxidation-Reduction Titrimetry
GE			GE-101	Unit I: Atomic Structure	
GE			GE-101 Lab	Section A: Inorganic Volumetric Analysis	
III		H	C-301	Unit I: General Principles of Metallurgy Unit II: Acids and Bases Unit IV: Noble Gases Unit V: Inorganic Polymers	
		H	C-301-LAB	A. Iodo / Iodimetric Titrations B. Inorganic preparations	
		GE	N/A	N/A	
V (H)		DSE-501	Unit I: Qualitative and quantitative aspects of analysis Unit II: UV-Visible and IR Spectrometry Unit I: Introduction to Green Chemistry		
		DSE-502	Unit II: Principles of Green Chemistry and Designing a Chemical synthesis (points (i) and (ii))		

C2 Organic Chemistry

Faculty name	Semester		Paper Code	Unit wise division
Dr. Arandao Narzary	I	H	N/A	N/A
		GE	GE-101	Unit-IV:Stereochemistry V: Aliphatic Hydrocarbons
		GE	GE-101-LAB	Detection of characterized element (N, S, Cl, Br, I) in an organic compound, Separation of mixtures by Chromatography
	III	H	C-302	Unit I:Chemistry of Halogenated Hydrocarbons, III:Carbonyl Compounds
		H	C-302-LAB	Unit –I, II, III Functional group analysis
		GE	GE-101	Unit-VII, VIII
		GE	GE-101-LAB	Unit-II
	V (H)		C-501	Unit I: Nucleic Acids Unit II: Amino Acids, Peptides and Proteins Unit IV: Lipids Unit V: Disconnection approach in Organic Synthesis
			C-501-Lab	Estimation of glycine, Study of the titration curve of glycine. Study of the action of salivary amylase on starch, Saponification value of oil or a fat.
	Mr. Rituraj Tahu	I	H	N/A
GE			GE-101	Unit-III: Fundamentals of Organic Chemistry V:Aliphatic Hydrocarbons
			GE-101 Lab	Detection of characterized element (N, S, Cl, Br, I) in an organic compound, Separation of mixtures by Chromatography

	III	H	C-302	Unit-II: Alcohols, Phenols, Ethers and Epoxides IV: Carboxylic Acids and their Derivatives IV: Sulphur containing compounds
		H	C-302-lab	Unit –I, II, III Functional group analysis
		GE	GE-301	Unit-V: Carboxylic acid VI: Amine and diazonium salt
		GE	GE-301-lab	Unit-II: Organic analysis
	V (H)		C-501	Unit-III: Enzymes VI: Pharmaceutical compounds : structure and importance
	V (H)		C-501-Lab	Estimation of glycine, Study of the titration curve of glycine. Study of the action of salivary amylase on starch, Saponification value of oil or a fat

C3 Physical Chemistry

Faculty name	Semester		Paper Code	Unit wise division
Dr. Anna Gogoi	I	H	C-102	Unit-II (Liquid State) Unit-IV (Ionic Equilibrium)
		H	C-102 Lab	Practical
		GE	N/A	N/A
	III	H	C-303	Unit II(Chemical Kinetics)
		H	C-303-lab	Practical
		GE	GE-301	Unit-3 (Conductance)
		GE	GE-301-lab	Practical
	V (H)		C-502	Unit-II (Molecular Spectroscopy)
			C-502-Lab	Practical
	Dr. Saheen Shehnaz Begum	I	H	C-102

		GE	N/A	N/A
	III	H	C-303	Unit 1: Phase equilibria Unit 3: Catalysis Unit 4: Surface Chemistry
		GE	GE-303	Unit 1: Solutions Unit 2: Phase equilibria Unit 4: Electrochemistry
	V		C-502	Unit 1: Quantum Chemistry Unit 3: Photochemistry

Course distribution for even semester, 2022

C1 Inorganic Chemistry

Dr. Pakiza Begum	II	H	N/A	N/A
		GE	N/A	N/A
	IV	H	C-401	Unit I: Coordination Chemistry Unit II: Transition Elements Unit III: Lanthanoids and Actinoids Unit IV: Bioinorganic Chemistry
		H	C-401-LAB	A. Gravimetric Analysis B. Inorganic Preparation C. Chromatography of metal ions
		GE	GE-401	Unit I: Transition series elements Unit II: Coordination Chemistry Unit III: Crystal Field Theory
		GE	GE-401-LAB	Section A: Inorganic Chemistry
	VI (H)		C-601	Unit I: Theoretical Principles in Qualitative Analysis (H ₂ S Scheme) Unit II: Organometallic compounds Unit IV: Catalysis by Organometallic Compounds
			C-601-LAB	A. Qualitative Inorganic Analysis
			DSE-601	Unit I: Silicate Industries
			DSE-601-LAB	A. Qualitative Inorganic Analysis
			DSE-603	Dissertation (Project Work)

C2 Organic Chemistry

Faculty name	Semester		Paper Code	Unit wise division	
Dr. Arandao Narzary	II	H	C-201	Unit-II: Stereochemistry Unit-III: Chemistry of Aliphatic Hydrocarbons	
		H	C-201-LAB	EXP-1,2,3 and 4 Chromatography, Crystallization, Determination of melting point	
		GE	GE-201	Unit-IV: Aromatic Hydrocarbons V: Alkyl and Aryl Halides	
		GE	GE-201-LAB	Section B: Criteria of Purity: Determination of melting and boiling points, Preparations	
	IV	H	C-402	Unit-II: Polynuclear Aromatic Hydrocarbons III:Heterocyclic Compound-I V:Terpenes	
		H	C-402-lab	EXP-1,2 and 3 Detection of elements (N, S and Halogens, Functional group detection	
		GE	N/A	N/A	
	VI (H)		C-602	Unit-I: Organic Spectroscopy II: Carbohydrates III: Dyes	
			C-602 LAB	Unit-I, II: Qualitative analysis of unknown organic compounds containing monofunctional groups,Extraction of caffeine from tea leaves.	
			DSE-603	Project	
	Mr. Rituraj Tahu	II	H	C-201	Unit-I: Basic Organic Chemistry Unit-IV: Cycloalkanes and Conformational analysis Unit-V: Aromatic Hydrocarbons

		H	C-201-LAB	EXP-1,2,3 and 4 Chromatography, Crystalization, Determination of melting point
		GE	GE-201	Unit-VI: Alcohols, Phenols and Ethers
			GE-201-LAB	Section B: Criteria of Purity: Determination of melting and boiling points, Preparations
	IV	H	C-402	Unit-I: Nitrogen Containing Functional Group IV: Alkaloids
		H	C-402-lab	EXP-1,2 and 3 Detection of elements (N, S and Halogens, Functional group detection
			N/A	N/A
	VI (H)		C-602	Unit-I:Organic Spectroscopy IV: Polymers
			C-602 LAB	Unit-I, II Qualitative analysis of unknown organic compounds containing monofunctional groups, Extraction of caffeine from tea leaves.
			DSE 601	Unit-III: Surface Coatings
			DSE-603	Project

C3 Physical Chemistry

Faculty name	Semester	Unit wise division	
Dr. Anna Gogoi	II	H	C-202 C-202 Lab Unit-I (Chemical Thermodynamics) Practical
		GE	GE-201 GE-201-lab Unit-3 (Ionic Equilibrium) Practical
	IV	H	C-403 Unit-I (Conductance)

			C-403 Lab	Practical
		GE	GE-401	Unit-IV Liquids Unit VII Chemical Kinetics
			GE-401 Lab	Practical
		VI (H)	DSE-603	Dissertation (Project Work)
Dr. Saheen Shehnaz Begum	II	H	C-202	Unit 2: Systems of Variable composition Unit 3: Chemical Equilibrium Unit 4: Solutions and Colligative properties
		GE		Unit 1: Chemical energetics Unit 2: Chemical equilibrium
	IV	H	C-403	Unit 2: Electrochemistry Unit 3: Electrical and Magnetic Properties of Atoms and Molecules
		GE		Unit 4: Kinetic Theory of Gases Unit 6: Solids
	VI (H)		DSE-601	Unit 4: Batteries
			DSE-603	Dissertation (Project Work)



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