



গড়গাঁও মহাবিদ্যালয়

GARGAON COLLEGE

NAAC accredited with 'B' Grade



Course Distribution
Department of Chemistry
2020-21

Course distribution 2020-21

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	M	MM-503	Unit II: Transition metal clusters
		M	MM-504	Inorganic Lab. 1. Volumetric titrations 2. Estimation of total hardness of water samples
		M	MM-508	Inorganic Lab.: Quantitative analysis
	Dr. Pakiza Begum	I	H	C-101
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		M	MM-503	Unit I: Organometallic compound Unit III: Error in quantitative analysis

				Unit IV: Organic reagents in inorganic analysis
	M	MM-504		Inorganic Lab. 1. Volumetric titrations 2. Estimation of total hardness of water samples
	M	MM-508		Inorganic Lab. • Quantitative analysis
	NM	NM-501		Unit I: Nuclear Chemistry
	NM	NM-502		Inorganic Lab.: Volumetric analysis

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)		MM 505	Unit I: Pericyclic reactions Unit II: Bio-molecules Unit-III Nucleic acids & Enzymes: Unit-IV Pharmaceutical compounds: Structure and Importance Unit-V Terpenes

			MM 506 Organic lab	A) Organic Quantitative analysis B) Food Analysis
Mr. Rituraj Tahu	I	H	N/A	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)		MM507	Unit – I: Symmetry and Group theory Unit – II :Quantum Chemistry and Chemical Bonding Unit – III Chemical Bonding

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)	MM 501	Unit I –Chemical Kinetics
		MM 502 Lab	Practical

C1 Inorganic Chemistry

Faculty name	Semester		Course Code	Unit wise division
Mr. Ranjit Dutta	II	H	N/A	N/A
		GE	N/A	N/A
	IV	H	C-401	Unit I: Coordination Chemistry
		H	C-401-LAB	A. Gravimetric Analysis B. Inorganic Preparation C. Chromatography of metal ions
		GE	GE-401	Unit II: Coordination Chemistry
		GE	GE-401-LAB	Inorganic Chemistry
	VI (M)		MM-603	Unit III: Chromatographic methods
			MM-604	A. Inorganic preparation & Crystallization
Dr.Pakiza Begum	II	H	N/A	N/A
		GE	N/A	N/A
	IV	H	C-401	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 (<i>3d series</i>) Unit III: Crystal Field Theory
		GE	GE-401-LAB	Section A: Inorganic Chemistry
	VI (M)		MM-603	Unit I: Bio inorganic Chemistry Unit II: Introduction to material chemistry Unit IV: Industrial chemistry
			MM-604	A. Inorganic preparation & Crystallization
			MM 608	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)		MM 605	Unit-I Disconnection approach in organic synthesis: Unit-III : Lipids Unit-IV: Dyes	
			MM 606 Organic Lab	Two step organic preparations (monitoring by TLC)	
			MM 607	Unit-I General Principles Unit V Spin resonance spectroscopy	
			MM 608	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, Crystallization, 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)		MM 605	Unit-II UV-visible Spectroscopy IR Spectroscopy Unit-V: Polymers Unit –VI Green Chemistry
		MM 606 Organic Lab	Two step organic preparations (monitoring by TLC)
		MM 607	UNIT II Microwave Spectroscopy Unit-III Infrared and Raman spectroscopy Unit IV Electronic spectroscopy
		Paper: MM 608	Project Work

C3 Physical Chemistry

Faculty name	Semester	Paper code	Unit wise division
Dr. Anna Gogoi	II	H	Unit-I (Chemical Thermodynamics)
			Practical
	GE	GE-201	Unit-3 (Ionic Equilibrium)

			GE-201-lab	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 (M)		MM 601	Unit II- Macromolecules Unit V -Statistical Thermodynamics
			MM 602 Lab	Practical
			MM 608	Project work
Dr. Saheen Shehnaz Begum	II	N M	NM 101	Unit: II Chemical Bonding and Molecular Structure
	IV	H	C-401	Unit IV: Bioinorganic Chemistry
	VI (H)		MM 601	UNIT: I Photochemistry Unit: IV Phase Equilibria



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