

Study Plan (Academic Calendar) CBCS system from July, 2022 to Dec, 2022)

SEMESTER-1(HONOURS)

July '22 to September '22				October'22 to December' 22			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
CC-1	Extra nuclear Structure of atom	14	SS	CC-1	Redox Reactions	14	AP
	Acid-Base reactions	12	AP		General Treatment of Reaction Mechanism I	16	GM
	Bonding and Physical Properties	18	GM		INORGANIC CHEMISTRY PRACTICAL	15	SS
	INORGANIC CHEMISTRY PRACTICAL	15	SS		ORGANIC CHEMISTRY PRACTICAL	24	GM
	ORGANIC CHEMISTRY PRACTICAL	30	GM				

July '22 to September '22				October'22 to December' 22			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
CC-2	Stereochemistry – I	8	GM	CC-2	Stereochemistry -I	9	GM
	General Treatment of Reaction Mechanism II	3	GM		Transport processes	02	AD
	Kinetic Theory and Gaseous state	20	AD			15	AD
	ORGANIC CHEMISTRY PRACTICAL	15	GM		ORGANIC CHEMISTRY PRACTICAL	7	GM
	PHYSICAL CHEMISTRY PRACTICAL	8	AD		PHYSICAL CHEMISTRY PRACTICAL	12	AD

SEMESTER-1(GENERAL)

July '22 to September '22				October'22 to December' 22			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
	Kinetic Theory of Gases and Real gases	8	AD		Chemical Periodicity	8	SS
	Liquids	4	AD		Acids and bases	6	AP

GE-1	Atomic Structure	8	AP	GE-1	Chemical Kinetics	8	AD
	Fundamentals of Organic Chemistry	8	GM		Nucleophilic Substitution and Elimination Reactions	6	GM
	Stereochemistry	6	GM		Stereochemistry	8	GM
	Practical	12	SS		Practical	12	SS
	Practical	12	AP		Practical	12	AP

SEMESTER-3(HONOURS)

July '22 to September '22				October'22 to December' 22			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
CC-5	Chemical Thermodynamics-I	10	AD	CC-5	Applications of Thermodynamics – I	06	AD
	Chemical Thermodynamics II	20	AD		Electrochemistry	24	AD
	PHYSICAL CHEMISTRY PRACTICAL	24	AD		PHYSICAL CHEMISTRY PRACTICAL	21	AD

July '22 to September '22				October'22 to December' 22			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
CC-6	Chemical periodicity	15	AP	CC-6	Coordination Chemistry-I	15	AP
	Chemistry of <i>s</i> and <i>p</i> Block Elements	15	SS		Chemistry of <i>s</i> and <i>p</i> Block Elements	15	SS
	INORGANIC CHEMISTRY PRACTICAL	27	AP		INORGANIC CHEMISTRY PRACTICAL	18	SS

July '22 to September '22				October'22 to December' 22			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
CC-7	Chemistry of alkenes and alkynes	20	GM	CC-7	Carbonyl and Related Compounds	30	GM
	Aromatic Substitution	20	GM		Organometallics	10	GM
	ORGANIC CHEMISTRY PRACTICAL	45	GM		ORGANIC CHEMISTRY PRACTICAL	30	GM
July '22 to September '22				October'22 to December' 22			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
SEC	Clinical Biochemistry	12	GM	SEC	Clinical Biochemistry	12	GM

SEMESTER-3(GENERAL)

July '22 to September '22				October'22 to December' 22			
Course Code/ Paper	Topic	No. of Lect.	Faculty	Course Code/ Paper	Topic	No. of Lect.	Faculty
GE-3	Chemical Bonding and Molecular Structure	8	SS	GE-3	Transition Elements (3d series)	6	SS
	Comparative study of p-block elements:	8	AP		Coordination Chemistry	8	AP
	Ionic Equilibria	6	AD		Electrochemistry	10	AD
	Conductance	6	AD		Aryl Halides	6	GM
	Aromatic Hydrocarbons	6	GM		Organometallic Compounds	6	GM
	Practical	24	SS		Practical	21	SS

SEMESTER-5(HONOURS)

July '22 to September '22				October'22 to December' 22			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
	Quantum Chemistry-II	15	AD		Quantum Chemistry-II	15	AD
	Statistical	20	AD		Numerical Analysis	10	AD

CC-11	Thermodynamics			CC-11			
	PHYSICAL CHEMISTRY PRACTICAL	24	AD		PHYSICAL CHEMISTRY PRACTICAL	21	AD

July '22 to September '22				October'22 to December' 22			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
CC-12	Carbocycles and Heterocycles	16	GM	CC-12	Pericyclic Reactions	08	GM
	Cyclic Stereochemistry	10	GM		Carbohydrates	14	GM
	ORGANIC CHEMISTRY PRACTICAL	45	GM		Biomolecules	12	GM
					ORGANIC CHEMISTRY PRACTICAL	30	GM

July '22 to September '22				October'22 to December' 22			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
DSE-A	Applications of Computers in Chemistry	30	AD	DSE-A	Applications of Computers in Chemistry	30	AD
DSE-B	Inorganic Materials of Industrial Importance	30	SS	DSE-B	Inorganic Materials of Industrial Importance	30	SS
DSE-A	Practical	24	AD	DSE-A	Practical	21	AD
DSE-B	Practical	24	SS	DSE-B	Practical	21	SS

Study Plan (Academic Calendar) CBCS system from January, 2023 to June, 2023)
SEMESTER-2 (HONOURS)

Jan '23 to Mar '23				Apr'23 to Jun' 23			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
	Stereochemistry –	20	GM		Substitution and	20	GM

CC-3	II			CC-3	Elimination Reaction		
	General Treatment of Reaction Mechanism-III	10	GM		General Treatment of Reaction Mechanism III	10	GM
	ORGANIC CHEMISTRY PRACTICAL	27	GM		ORGANIC CHEMISTRY PRACTICAL	18	GM

Jan '23 to Mar '23				Apr'23 to Jun' 23			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
CC-4	Chemical Bonding-I	20	SS	CC-4	Chemical Bonding-II	15	AP
	Chemical Bonding-II	15	AP		Radioactivity	10	SS
	INORGANIC CHEMISTRY PRACTICAL	27	AP		INORGANIC CHEMISTRY PRACTICAL	18	AP

SEMESTER-2(GENERAL)

Jan '22 to Mar '23				Apr'23 to Jun' 23			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
GE-2	Chemical Thermodynamics	15	AD	GE-1	Chemical Periodicity	8	AP
	Solutions	10	AD		Phase Equilibria	5	AD
	Solids	8	AD		Aliphatic Hydrocarbon	8	GM
	Error Analysis and Computer Applications	5	AD		Error Analysis and Computer Applications	5	AD
	Practical		AD		Practical	12	A3

SEMESTER-4 (HONOURS)

Jan '23 to Mar '23				Apr'23 to Jun' 23			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
	Nitrogen Compounds	12	GM		The Logic of Organic synthesis	14	GM
	Rearrangements	14	GM		Organic Spectroscopy	20	GM

CC-8	ORGANIC CHEMISTRY PRACTICAL	27	GM	CC-8	ORGANIC CHEMISTRY PRACTICAL	18	GM
Jan '23 to Mar '23				Apr'23 to Jun' 23			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
CC-9	Application of Thermodynamics-II	20	AD	CC-9	Foundation of Quantum Mechanics	10	AD
	Foundation of Quantum Mechanics	15	AD		Crystal structure	15	AD
	PHYSICAL CHEMISTRY PRACTICAL	27	AD		PHYSICAL CHEMISTRY PRACTICAL	18	AD

Jan '23 to Mar '23				Apr'23 to Jun' 23			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
CC-10	Coordination Chemistry-II	30	AP	CC-10	Coordination Chemistry-II	15	AP
	Chemistry of d- and f- block elements	15	SS		Reaction Kinetics and Mechanism	10	SS
	INORGANIC CHEMISTRY PRACTICAL	27	SS		INORGANIC CHEMISTRY PRACTICAL	18	SS

Jan '23 to Mar '23				Apr'23 to Jun' 23			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
SEC	Pharmaceutical Chemistry	12	GM	SEC	Pharmaceutical Chemistry	12	GM

SEMESTER-4(GENERAL)

Jan '23 to Mar '23				Apr'23 to Jun' 23			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
GE-4	Alcohol, Phenol and Ethers	08	SS	GE-1	Amino acids and Carbohydrates	8	GM
	Carbonyl Compounds	10	GM		Crystal Field Theory	8	SS
	Quantum	12	AD		Carboxylic Acids	08	GM

	Chemistry and Spectroscopy				and Their Derivatives		
	Amines and Diazonium salts	5	GM				
	Practical	27	GM		Practical	18	GM

SEMESTER-6 (HONOURS)

Jan '23 to Mar '23				Apr'23 to Jun' 23			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
CC-13	Theoretical Principal in Qualitative Analysis	10	SS	CC-13	Bioinorganic Chemistry	05	AP
	Bioinorganic Chemistry	20	AP		Organometallic Chemistry	25	SS
	INORGANIC CHEMISTRY PRACTICAL	27	AP		INORGANIC CHEMISTRY PRACTICAL	18	SS

Jan '23 to Mar '23				Apr'23 to Jun' 23			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
CC-14	Molecular Spectroscopy	25	AD	CC-14	Surface Phenomenon	15	AD
	Photochemistry and theory of reaction rate	15	AD		Dipole Moment and Polarizability	05	AD
	PHYSICAL CHEMISTRY PRACTICAL	27	AD		PHYSICAL CHEMISTRY PRACTICAL	18	AD
Jan '23 to Mar '23				Apr'23 to Jun' 23			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
DSE-A	Inorganic Materials of Industrial Importance	30	SS	DSE-A	Inorganic Materials of Industrial Importance	30	SS

DSE-A	Practical	27	SS	DSE-A	Practical	18	SS
DSE-B	Dissertation	60	AP	DSE-B	Dissertation	45	AP