

ACADEMIC CALENDER (2019-2020)

Department of Chemistry

3rd year (Honours) (1+1+1 system)

(Paper V)

July '19 to October '19			November' 19 to January' 20			February'20 to April'20		
Topic	No. of Lect.	Faculty	Topic	No of Lect.	Faculty	Topic	No. of Lect.	Faculty
CHT 31a <u>Unit I</u> Chemistry of coordination compounds	12	AP	CHT 31c <u>Unit I</u> Electrochemical and spectral analysis, and analytical separation	8	SS			
CHT 31a <u>Unit II</u> Chemistry of d- and f- block elements	10	SS	CHT 31c <u>Unit II</u> Statistical methods in chemical analysis and environmental analysis	6	AP			
CHT 31b <u>Unit I</u> Organometallic Compounds	8	SS	CHT 31d <u>Unit I</u> Gravimetric and titrimetric methods of analysis	6	SS			
CHT 31b <u>Unit II</u> Bioinorganic Chemistry	10	AP	CHT 31d <u>Unit II</u> Thermodynamics of dissolution	6	AP			

3rd year (Honours)
(Paper VI)

July '19 to October '19			November' 19 to January' 20			February'20 to April'20		
Topic	No. of Lect.	Faculty	Topic	No. of Lect.	Faculty	Topic	Lect	Faculty
CHT 32a <u>Unit I</u> Carbanion chemistry and cyclic stereochemistry	6	GM	CHT 32c <u>Unit I</u> Carbocycles and Heterocycles	8	GM			
CHT 32a <u>Unit II</u> Spectroscopy UV, IR, NMR (elementary)	8	GM	CHT 32c <u>Unit II</u> Amino acids, peptides and nucleic acids	6	GM			
CHT 32b <u>Unit I</u> Synthetic strategies and Asymmetric synthesis	8	GM	CHP 34a Spectroscopic Analysis of Organic Compounds	10	GM			
CHT 32b <u>Unit II</u> Carbohydrate chemistry	6	GM						

3rd year (Honours)
(Paper VII)

July '19 to October '19			November' 19 to January' 20			February'20 to April'20		
Topic	Lect	Faculty	Topic	Lect	Faculty	Topic	Lect	Faculty
CHT 33a <u>Unit I</u> Properties of solids, interfaces and dielectrics	6	AD	CHT 33c <u>Unit I</u> Kinetics and photochemistry	8	AD			
CHT 33a <u>Unit II</u> Quantum Chemistry – II	8	AD	CHT 33c <u>Unit II</u> Spectroscopy	6	AD			
CHT 33b <u>Unit I</u> Phase equilibrium and colligative properties	8	AD	CHP 35a Experiments (Practical)	24	AD			
CHT 33b <u>Unit II</u> Statistical thermodynamics and the third law	6	AD						

3rd year (Honours)
(Paper VIII)

July '19 to October '19			November' 19 to January' 20			February'20 to April'20		
Topic	Lect	Faculty	Topic	Lect	Faculty	Topic	Lect	Faculty
CHT 34b Experiment-1 (Practical)	18	GM	CHT 34b Experiment-2 (Practical)	24	GM			
CHT 35b Experiment-I (Practical)	24	AD	CHT 35b Experiment-2 (Practical)	18	AD			

3rd year (General)

Paper IVA

July '19 to October ' 19			November' 19 to January'20		
Topic	No. of Lectures	Faculty	Topic	No. of Lectures	Faculty
CGT31a <u>Unit I</u> Chemical Analysis	6	SEM	<u>CGT31b</u> <u>Unit II</u> Industrial chemistry II	6	SEM
CGT31a <u>Unit II</u> Error analysis and computer applications	8	SEM	CGT31c <u>Unit I</u> Environmental Chemistry	8	SEM
<u>CGT31b</u> <u>Unit I</u> Industrial chemistry I	6	SEM	CGT31c <u>Unit II</u> Industrial chemistry III	6	SEM

Paper IVB

July '19 to October ' 19			November' 19 to January'20		
Topic	No. of Lectures	Faculty	Topic	No. of Lectures	Faculty
Practical	16	SEM	Practical	16	SEM
Practical	8	AD	Practical	6	AD

Academic Calendar CBCS system (July, 2019- Dec, 2019)

SEMESTER-1(HONOURS)

July '19 to September '19				October'19 to December' 19			
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	AP
	INORGANIC CHEMISTRY PRACTICAL	15	SS		ORGANIC CHEMISTRY PRACTICAL	24	GM
	ORGANIC CHEMISTRY PRACTICAL	30	GM				

SEMESTER-1(HONOURS)

July '19 to September '19				October'19 to December' 19			
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		AD

SEMESTER-1(GENERAL)

July '19 to September '19				October'19 to December' 19			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
GE-1	Kinetic Theory of Gases and Real gases	8	AD	GE-1	Chemical Periodicity	8	SM
	Liquids	4	SM		Acids and bases	6	GM
	Atomic Structure	8	SM		Chemical Kinetics	8	AD
	Fundamentals of Organic Chemistry	8	GM		Nucleophilic Substitution and Elimination Reactions	6	GM
	Stereochemistry	6	GM		Stereochemistry	10	GM
	Practical	12	SM		Practical	12	SM
	Practical	12	AP		Practical	12	AP

SEMESTER-3 (HONOURS)

July '19 to September '19				October'19 to December' 19			
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 '19 to September '19				October'19 to December' 19			
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 '19 to September '19				October'19 to December' 19			
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 '19 to September '19				October'19 to December' 19			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
SECA	ANALYTICAL CLINICAL BIOCHEMISTRY	20	GM	SECA	ANALYTICAL CLINICAL BIOCHEMISTRY	20	GM

SEMESTER-3(GENERAL)

July '19 to September '19				October'19 to December' 19			
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

Academic Calendar CBCS system (January, 2020- Dec, 2020)

SEMESTER-2 (HONOURS)

Jan '20 to Mar '20				Apr'20 to Jun' 20			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
CC-3	Stereochemistry -II	20	GM	CC-3	Substitution and Elimination Reaction	20	GM
	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 '20 to Mar '20				Apr'20 to Jun' 20			
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	SS		INORGANIC CHEMISTRY PRACTICAL	18	SS

SEMESTER-2(GENERAL)

July '19 to September '19				October'19 to December' 19			
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		AP		Practical	12	AP

SEMESTER-4(HONOURS)

Jan '20 to Mar '20				Apr'20 to Jun' 20			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
CC-8	Nitrogen Compounds	12	GM	CC-8	The Logic of Organic synthesis	14	GM
	Rearrangements	14	GM		Organic Spectroscopy	20	GM
	ORGANIC CHEMISTRY PRACTICAL	27	GM		ORGANIC CHEMISTRY PRACTICAL	18	GM

Jan '20 to Mar '20				Apr'20 to Jun' 20			
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 '20 to Mar '20				Apr'20 to Jun' 20			
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

SEMESTER-4(GENERAL)

Jan '20 to Mar '20				Apr'20 to Jun' 20			
Course Code/ Paper	Topic	No. of Lect	Faculty	Course Code/ Paper	Topic	No. of Lect	Faculty
GE-4	Alcohol, Phenol and Ethers	15	GM	GE-1	Amino acids and Carbohydrates	8	GM
	Carbonyl Compounds	10	GM		Crystal Field Theory	5	AP
	Carboxylic Acids and Their Derivatives	8	GM		Quantum Chemistry and Spectroscopy	10	AD
	Amines and Diazonium salts	5	GM				
	Practical	27	AP		Practical	18	AP