# ACADEMIC CALENDER (2020-2021)

# **Department of Chemistry**

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

#### SEMESTER-1(HONOURS)

	July '20 to Septem	October'20 to December' 20					
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty
Code/		Lect		Code/		of	
Paper				Paper		Lect	
	Extra nuclear Structure of atom	14	SS		Redox Reactions	14	AP
CC-1	Acid-Base reactions	12	AP	CC-1	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 '20 to Septemb		October'20 to Decem	ber' 20			
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty
Code/		Lect		Code/		of	
Paper				Paper		Lect	
	Stereochemistry -I	8	GM		Stereochemistry -	9	GM
					I		
	<b>General Treatment</b>	3	GM		Transport	02	AD
CC-2	of Reaction			CC-2	processes		
CC-2	Mechanism II			CC-2			
	Kinetic Theory and	20	AD			15	AD
	Gaseous state						
	ORGANIC	15	GM		ORGANIC	7	GM
	CHEMISTRY				CHEMISTRY		
	PRACTICAL				PRACTICAL		
	PHYSICAL	8	AD		PHYSICAL		AD
	CHEMISTRY				CHEMISTRY		
	PRACTICAL				PRACTICAL		

# SEMESTER-1(GENERAL)

	July '20 to Septem	ber <b>'20</b>	October'20 to December' 20				
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	SM
	Liquids	4	SM		Acids and bases	6	GM
GE-1	Atomic Structure	8	SM	GE-1	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 '20 to Septem	October'20 to December' 20					
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty
Code/		Lect		Code/		of	
Paper				Paper		Lect	
	Chemical	10	AD		Applications of	06	AD
	Thermodynamics-				Thermodynamics		
	I				-I		
CC-5	Chemical	20	AD	CC-5	Electrochemistry	24	AD
CC-3	Thermodynamics			CC-3			
	II						
	PHYSICAL	24	AD	1	PHYSICAL	21	AD
	CHEMISTRY				CHEMISTRY		
	PRACTICAL				PRACTICAL		

	July '20 to Septem	October'20 to December' 20					
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty
Code/		Lect		Code/		of	
Paper				Paper		Lect	
	Chemical	15	AP		Coordination	15	AP
	periodicity				Chemistry-I		
	Chemistry of s and	15	SS		Chemistry of s	15	SS
CC-6	p Block Elements			CC-6	and p Block		
CC-0				CC-0	Elements		
	INORGANIC	27	AP		INORGANIC	18	SS
	CHEMISTRY				CHEMISTRY		
	PRACTICAL				PRACTICAL		

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

## SEMESTER-3(GENERAL)

	July '20 to Septem	October'20 to December' 20					
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty
Code/		Lect.		Code/		of	
Paper				Paper		Lect.	
	<b>Chemical Bonding</b>	8	SS		Transition	6	SS
	and Molecular				Elements (3d		
	Structure				series)		
	Comparative study	8	AP	1	Coordination	8	AP
GE-3	of p-block			GE-3	Chemistry		
	elements:				Circumser y		
	Ionic Equilibria	6	AD		Electrochemistry	10	AD
	Conductance	6	AD		Aryl Halides	6	GM
	Aromatic	6	GM		Organometallic	6	GM
	Hydrocarbons				Compounds		
	Practical	24	SS		Practical	21	SS

# SEMESTER-5(HONOURS)

	July '20 to Septeml	October'20 to December' 20					
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty
Code/		Lect		Code/		of	
Paper				Paper		Lect	
	Quantum Chemistry-	15	AD		Quantum	15	AD
	II				Chemistry-II		
	Statistical	20	AD		Numerical Analysis	10	AD
	Thermodynamics						
CC-11	PHYSICAL	24	AD	CC-11	PHYSICAL	21	AD
	CHEMISTRY				CHEMISTRY		
	PRACTICAL				PRACTICAL		

	July '20 to Septeml	October'20 to December' 20					
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty
Code/		Lect		Code/		of	
Paper				Paper		Lect	
	Carbocycles and	16	GM		Pericyclic Reactions	08	GM
	Heterocycles						
	Cyclic	10	GM		Carbohydrates	14	GM
	Stereochemistry				Biomolecules	12	GM
CC-12	ORGANIC	45	GM	CC-12	ORGANIC	30	GM
	CHEMISTRY				CHEMISTRY		
	PRACTICAL				PRACTICAL		

	July '20 to Septem	ber <b>'2</b> 0		October'20 to December' 20				
Course	Topic	No. of	Faculty	Course	Topic	No. of	Faculty	
Code/	_	Lect		Code/		Lect		
Paper				Paper				
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	
		24				21		
DSE-A	Practical		AD	DSE-A	Practical		AD	
		24				21		
DSE-B	Practical		SS	DSE-B	Practical		SS	

#### Academic Calendar CBCS system (January, 2021- June, 2021)

## SEMESTER-2 (HONOURS)

	Jan '21 to Mar	<b>'21</b>		Apr'21 to Jun' 21				
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty	
Code/		Lect		Code/		of		
Paper				Paper		Lect		
	Stereochemistry -II	20	GM		Substitution and Elimination Reaction	20	GM	
CC-3	General Treatment of Reaction Mechanism- III	10	GM	CC-3	General Treatment of Reaction Mechanism III	10	GM	
	ORGANIC CHEMISTRY PRACTICAL	27	GM		ORGANIC CHEMISTRY PRACTICAL	18	GM	

	Jan '21 to Mar '21				Apr'21 to Jun' 21			
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty	
Code/		Lect		Code/		of		
Paper				Paper		Lect		
	<b>Chemical Bonding</b>	20	SS		Chemical	15	AP	
	-I				Bonding -II			
	<b>Chemical Bonding</b>	15	AP		Radioactivity	10	SS	
CC-4	-II			CC-4				
CC- <b>4</b>	INORGANIC	27	SS	CC- <b>4</b>	INORGANIC	18	SS	
	CHEMISTRY				CHEMISTRY			
	PRACTICAL				PRACTICAL			

## SEMESTER-2(GENERAL)

	Jan '21 to Mar '21				Apr'21 to Jun' 21				
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty		
Code/	•	Lect		Code/	•	of			
Paper				Paper		Lect			
	Chemical	15	AD		Chemical	8	AP		
	Thermodynamics				Periodicity				
	Solutions	10	AD		Phase Equilibria	5	AD		
	Solids	8	AD		Aliphatic	8	GM		
GE-2				GE-1	Hydrocarbon				
	Error Analysis and	5	AD	1	Error Analysis	5	AD		
	Computer				and Computer				
	Applications				Applications				
	Practical		AP		Practical	12	AP		

# SEMESTER-4 (HONOURS)

	Jan '21 to Mar '21				Apr'21 to Jun' 21			
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty	
Code/		Lect		Code/	-	of		
Paper				Paper		Lect		
	Nitrogen Compounds	12	GM		The Logic of Organic synthesis	14	GM	
aa a	Rearrangements	14	GM	CC-8	Organic Spectroscopy	20	GM	
CC-8	ORGANIC CHEMISTRY PRACTICAL	27	GM		ORGANIC CHEMISTRY PRACTICAL	18	GM	

Jan '21 to Mar '21				Apr'21 to Jun' 21			
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty
Code/		Lect		Code/		of	
Paper				Paper		Lect	
	Application of	20	AD		Foundation of	10	AD
	Thermodynamics-				Quantum		
	II				Mechanics		
CC-9	Foundation of	15	AD	CC-9	Crystal structure	15	AD
CC-7	Quantum			CC-7			
	Mechanics						
	PHYSICAL	27	AD		PHYSICAL	18	AD
	CHEMISTRY				CHEMISTRY		
	PRACTICAL				PRACTICAL		

Jan '21 to Mar '21				Apr'21 to Jun' 21				
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty	
Code/		Lect		Code/		of		
Paper				Paper		Lect		
	Coordination	30	AP		Coordination	15	AP	
	Chemistry-II				Chemistry-II			
	Chemistry of d-	15	SS		<b>Reaction Kinetics</b>	10	SS	
CC-10	and f- block			CC-10	and Mechanism			
CC-10	elements			CC-10				
	INORGANIC	27	SS		INORGANIC	18	SS	
	CHEMISTRY				CHEMISTRY			
	PRACTICAL				PRACTICAL			

## SEMESTER-4(GENERAL)

	Jan '21 to Mar '21				Apr'21 to Jun' 21				
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty		
Code/	•	Lect		Code/	•	of			
Paper				Paper		Lect			
	Alcohol, Phenol and Ethers	15	GM		Amino acids and Carbohydrates	8	GM		
	Carbonyl Compounds	10	GM	GE-1	Crystal Field Theory	5	AP		
GE-4	Carboxylic Acids and Their Derivatives	8	GM		Quantum Chemistry and Spectroscory	10	AD		
	Amines and Diazonium salts	5	GM						
	Practical	27	AP		Practical	18	AP		

## SEMESTER-6 (HONOURS)

Jan '21 to Mar '21				Apr'21 to Jun' 21				
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty	
Code/		Lect		Code/		of		
Paper				Paper		Lect		
	Theoretical	10	SS		Bioinorganic	05	AP	
	Principal in				Chemistry			
	Qualitative							
CC-13	Analysis			CC-13				
CC-13	Bioinorganic	20	AP	CC-13	Organometallic	25	SS	
	Chemistry				Chemistry			
	INORGANIC	27	AP		INORGANIC	18	SS	
	CHEMISTRY				CHEMISTRY			
	PRACTICAL				PRACTICAL			

Jan '21 to Mar '21				Apr'21 to Jun' 21				
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty	
Code/	_	Lect		Code/	_	of		
Paper				Paper		Lect		
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 '21 to Mar '21				Apr'21 to Jun' 21				
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty	
Code/		Lect		Code/		of		
Paper				Paper		Lect		
DSE-A	Inorganic Materials of Industrial Importance	30	SS	DSE-A	Inorganic Materials of Industrial Importance	30	SS	
DSE-B	Dissertation	60	AP	DSE-B	Dissertation	45	AP	
DSE-A	Practical	27	SS	DSE-A	Practical	18	SS	