Study Plan 2023-2024

Study Plan NEP system (July, 2023- Dec, 2023)

SEMESTER-1(MAJOR)

	July '23	to September '	23			October'2.	3 to Decembe	r' 23	
Course	Paper	Topic	No.	Faculty	Course	Paper	Topic	No.	Faculty
	Code/Paper		of			Code/Paper		of	
	Name		Lect			Name		Lect	
	СНЕМ-Н-	Extra	10	SS		СНЕМ-Н-	Stereoche	05	GM
Major	CC1-1-Th	nuclear			Major	CC1-1-Th	mistry-1		
		Structure of							
	Fundament	atoms and				Fundament			
CC-1	als of	Periodicity			CC-1	als of			
	Chemistry -	Thermodyn	09	AD		Chemistry -	Chemical	06	AD
	1	amics -1				1	Kinetics-I		
		Basics of	10	GM			Extra	05	SS
		Organic					nuclear		
		Chemistry:					Structure		
		Bonding					of atoms		
		and					and		
		Physical					Periodicit		
		Properties					y		
	СНЕМ-Н-	Calibration	04	AP		СНЕМ-Н-	Acid-Base	12	AP
	CC1-1-P	and use of				CC1-1-P	Titrations		
		Apparatus							
		Preparation	04	AP			Oxidation	12	AP
		of Primary					-		
		standard					Reduction		
		Solutions					Titrations		

	Ju	ly '23 to Septemb	er '23			Octo	ober'23 to Dece	mber' 2	3
Course	Paper	Topic	No.	Facul	Course	Paper	Topic	No.	Faculty
Code/	Code/Pape		of	ty	Code/	Code/Pape		of	
Paper	r Name		Lect		Paper	r Name		Lect	
	СНЕМ-Н-	Introduction	15	SS		СНЕМ-Н-	Complexom	06	AP
Major	SEC1-1-	to			Major	SEC-1-Th	etric		
SEC-1	Th	Quantitative			SEC-1		Titrimetry		
		analysis and				Quantitati	and		
	Quantitati	its				ve analysis	Precipitation		
	ve analysis	interdisciplin				and Basic	Titrimetry		
	and Basic	ary nature				laboratory			
	laboratory	Titrimetric	02	AP		Practices	Gravimetric	03	AP
	Practices	Analysis					analysis		
		Acid-Base	03	AP			Redox	02	AP
		Titrimetry					Titrimetry		
		Water	04	AD			Water	03	AD
		Analysis					Treatment		
							Technologies		
		Basics	04	GM			Basics	04	GM
		Laboratory					Laboratory		
		Practices					Practices		
	СНЕМ-Н-	Tutorial	05	AD		СНЕМ-Н-	Tutorial	03	AD
	SEC1-1-		03	GM		SEC-1-P		04	GM
	Tu								

SEMESTER-1(MINOR)

	July '23	to September '	23			October'2	3 to December	r' 23	
Course	Paper	Topic	No.	Faculty	Course	Paper	Topic	No.	Faculty
	Code/Paper		of			Code/Paper		of	
	Name		Lect			Name		Lect	
	СНЕМ-Н-	Extra	10	SS		СНЕМ-Н-	Stereoche	05	GM
Minor	CC1-1-Th	nuclear			Major	CC1-1-Th	mistry-1		
		Structure of							
	Chemistry	atoms and				Fundament			
	Minor -1	Periodicity			CC-1	als of			
		Thermodyn	09	AD		Chemistry -	Chemical	06	AD
		amics -1				1	Kinetics-I		
		Basics of	10	GM			Extra	05	SS
		Organic					nuclear		
		Chemistry:					Structure		
		Bonding					of atoms		
		and					and		
		Physical					Periodicit		
		Properties					y		
	СНЕМ-Н-	Calibration	4	AP		СНЕМ-Н-	Acid-Base	12	AP
	CC1-1-P	and use of				CC1-1-P	Titrations		
		Apparatus							
		Preparation	4	AP			Oxidation	12	AP
		of Primary					-		
		standard					Reduction		
		Solutions					Titrations		

SEMESTER-1(IDC)

	Ju	ly '23 to Septemb	er '23			Octo	ober'23 to Dece	mber' 2	3
Course	Paper	Topic	No.	Facul	Course	Paper	Topic	No.	Faculty
Code/	Code/Pape		of	ty	Code/	Code/Pape		of	
Paper	r Name		Lect		Paper	r Name		Lect	
	СНЕМ-Н-	Introduction	15	SS		СНЕМ-Н-	Complexom	06	AP
IDC	IDC1-1-	to			Major	SEC-1-Th	etric		
	Th	Quantitative			SEC-1		Titrimetry		
		analysis and				Quantitati	and		
	Quantitati	its				ve analysis	Precipitation		
	ve analysis	interdisciplin				and Basic	Titrimetry		
	and Basic	ary nature				laboratory			
	laboratory	Titrimetric	02	AP		Practices	Gravimetric	03	AP
	Practices	Analysis					analysis		
		Acid-Base	03	AP			Redox	02	AP
		Titrimetry					Titrimetry		
		Water	04	AD			Water	03	AD
		Analysis					Treatment		
							Technologies		
		Basics	04	GM			Basics	04	GM
		Laboratory					Laboratory		
		Practices					Practices		
	СНЕМ-Н-	Tutorial	05	AD		СНЕМ-Н-	Tutorial	03	AD
	IDC1-1-		03	GM		IDC-1-Tu		04	GM
	Tu								

SEMESTER-3(HONOURS)

CBCS system (July, 2023- Dec, 2023)

	July '23 to Septem	ber '23			October'23 to Decem	ber' 23	
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		PHYSICAL	21	AD
	CHEMISTRY				CHEMISTRY		
	PRACTICAL				PRACTICAL		

	July '23 to Septem	ber '23			October'23 to Decer	nber' 23	
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	15	SS		Chemistry of s	15	SS
CC-6	and p Block			CC-6	and p Block		
CC-0	Elements			CC-0	Elements		
	INORGANIC	27	AP		INORGANIC	18	SS
	CHEMISTRY				CHEMISTRY		
	PRACTICAL				PRACTICAL		

	July '23 to Septem	ber '23			October'23 to Decen	ıber' 23	
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				Related		
	alkynes				Compounds		
CC-7	Aromatic	20	GM	CC-7	Organometallics	10	GM
CC-7	Substitution			CC-7			
	ORGANIC	45	GM		ORGANIC	30	GM
	CHEMISTRY				CHEMISTRY		
	PRACTICAL				PRACTICAL		

	July '23 to Septem		October'23 to December' 23				
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty
Code/		Lect		Code/		of	
Paper				Paper		Lect	
	Clinical	12	GM		Clinical	12	GM
SEC	Biochemistry			SEC	Biochemistry		

SEMESTER-3(GENERIC)

	July '23 to Septem	ber '23			October'23 to Decer	nber' 2	3
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty
Code/		Lect.		Code/		of	
Paper				Paper		Lect.	
	Chemical Bonding and Molecular Structure	8	SS		Transition Elements (3d series)	6	SS
GE-3	Comparative study of p-block elements:	8	AP	GE-3	Coordination Chemistry	8	AP
	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 '23 to Septem	ber '23		October'23 to December' 23				
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty	
Code/		Lect		Code/		of		
Paper				Paper		Lect		
	Quantum	15	AD		Quantum	15	AD	
	Chemistry-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 '23 to Septem	ber '23		October'23 to December' 23				
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty	
Code/		Lect		Code/		of		
Paper				Paper		Lect		
	Carbocycles and	16	GM		Pericyclic	08	GM	
	Heterocycles				Reactions			
	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 '23 to Septem	ber '23		October'23 to December' 23					
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		
DSE-A	Practical	24	AD	DSE-A	Practical	21	AD		
DSE-B	Practical	24	SS	DSE-B	Practical	21	SS		

Study Plan NEP system (January, 2024- June, 2024) SEMESTER-2 (MAJOR)

	July '24	to September '	24			October'2	4 to December	' 24	
Course	Paper	Topic	No.	Faculty	Course	Paper	Topic	No.	Faculty
	Code/Paper		of			Code/Paper		of	
	Name		Lect			Name		Lect	
	СНЕМ-Н-	Kinetic	08	AD		СНЕМ-Н-	Chemical	07	AP
Major	CC2-2-Th/	Theory and			Major	CC1-1-Th/	Bonding-I		
		Gaseous							
	Fundament	State				Fundament			
CC-2	als of	Chemical	08	AP	CC-1	als of	Real Gas	07	AD
	Chemistry -	Bonding-I				Chemistry -	and Virial		
	1I					1I	Equation		
		Stereochemi	08	GM			General	07	GM
		stry-II					Treatment		
							of Reaction		
							mechanism		
							-1		
	СНЕМ-Н-	Standardiza	3	SS		СНЕМ-Н-	Estimation	15	SS
	CC1-1-P	tion of				CC1-1-P	of metal		
		$Na_2S_2O_3$					content in		
		solution					some		
		against					selective		
		K ₂ Cr ₂ O ₇					samples		
		Iodo-/	12	SS					
		Iodimetric							
		Titrations							

	Ju	ly '24 to Septemb	er '24			Octo	ober'24 to Dece	mber' 2	4
Course	Paper	Topic	No.	Facul	Course	Paper	Topic	No.	Faculty
Code/	Code/Pape		of	ty	Code/	Code/Pape		of	
Paper	r Name		Lect		Paper	r Name		Lect	
	СНЕМ-Н-	Module-I	15	GL		CHEM-H-	Module-II	08	GL
Major	SEC2-2-	Introduction			Major	SEC-1-Th/	Application		
SEC-2	Th/	to Artificial			SEC-1		of Artificial		
		Intelligence,				Quantitati	Intelligence		
	Quantitati	Subfields and				ve analysis	and Ethical		
	ve analysis	Technologies				and Basic	and Social		
	and Basic					laboratory	implications		
	laboratory					Practices	of AI		
	Practices	Module-II	07	GL			Module-II	15	GL
		Application					Other		
		of Artificial					Important		
		Intelligence					Issues of AI		
		and Ethical							
		and Social							
		implications							
		of AI							

SEMESTER-2(MINOR)

	July '24	to September '	24			October'2	4 to December	' 24	
Course	Paper	Topic	No.	Faculty	Course	Paper	Topic	No.	Faculty
	Code/Paper		of			Code/Paper		of	
	Name		Lect			Name		Lect	
	СНЕМ-Н-	Kinetic	08	AD		СНЕМ-Н-	Chemical	07	AP
Minor	CC2-2-Th/	Theory and			Major	CC1-1-Th/	Bonding-I		
		Gaseous							
	Chemistry	State				Fundament			
	Minor -1I	Chemical	08	AP	CC-1	als of	Real Gas	07	AD
		Bonding-I				Chemistry -	and Virial		
						1I	Equation		
		Stereochemi	08	GM			General	07	GM
		stry-II					Treatment		
							of Reaction		
							mechanism		
	~	G. 1			_	~	-1		
	CHEM-H-	Standardiza	3	SS		CHEM-H-	Estimation	15	SS
	CC1-1-P	tion of				CC1-1-P	of metal		
		$Na_2S_2O_3$					content in		
		solution					some		
		against					selective		
		K ₂ Cr ₂ O ₇	12	SS	-		samples		
		Iodo-/	12	22					
		Iodimetric							
		Titrations							

SEMESTER-2(IDC)

	Ju	ly '23 to Septemb	er '23			Octo	ober'23 to Decei	mber' 2	3
Course	Paper	Topic	No.	Facul	Course	Paper	Topic	No.	Faculty
Code/	Code/Pape		of	ty	Code/	Code/Pape		of	
Paper	r Name		Lect		Paper	r Name		Lect	
	СНЕМ-Н-	Introduction	15	SS		СНЕМ-Н-	Complexom	06	AP
IDC	IDC2-2-	to			Major	SEC-1-Th/	etric		
	Th	Quantitative			SEC-1		Titrimetry		
		analysis and				Quantitati	and		
	Quantitati	its				ve analysis	Precipitation		
	ve analysis	interdisciplin				and Basic	Titrimetry		
	and Basic	ary nature				laboratory			
	laboratory	Titrimetric	02	AP		Practices	Gravimetric	03	AP
	Practices	Analysis					analysis		
		Acid-Base	03	AP			Redox	02	AP
		Titrimetry					Titrimetry		
		Water	04	AD			Water	03	AD
		Analysis					Treatment		
							Technologies		
		Basics	04	GM			Basics	04	GM
		Laboratory					Laboratory		
		Practices					Practices		
	СНЕМ-Н-	Tutorial	05	AD		СНЕМ-Н-	Tutorial	05	AD
	IDC2-2-		03	GM		SEC-1-P		02	GM
	Tu								

SEMESTER-4 (HONOURS) CBCS system (January, 2024- June, 2024)

	Jan '24 to Mar	'24		Apr'24 to Jun' 24				
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty	
Code/		Lect		Code/		of		
Paper				Paper		Lect		
	Nitrogen	12	GM		The Logic of	14	GM	
	Compounds				Organic synthesis			
	Rearrangements	14	GM		Organic	20	GM	
ac a				00.0	Spectroscopy			
CC-8	ORGANIC	27	GM	CC-8	ORGANIC	18	GM	
	CHEMISTRY				CHEMISTRY			
	PRACTICAL				PRACTICAL			

	Jan '24 to Mar	'24		Apr'24 to Jun' 24					
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-9	Quantum			CC-9					
	Mechanics								
	PHYSICAL	27	AD	1	PHYSICAL	18	AD		
	CHEMISTRY				CHEMISTRY				
	PRACTICAL				PRACTICAL				

	Jan '24 to Mar	'24		Apr'24 to Jun' 24					
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		Reaction	10	SS		
CC-10	and f- block			CC-10	Kinetics and				
CC-10	elements			CC-10	Mechanism				
	INORGANIC	27	SS		INORGANIC	18	SS		
	CHEMISTRY				CHEMISTRY				
	PRACTICAL				PRACTICAL				

Jan '24 to Mar '	Apr'24 to Jun' 24					
Topic	No. of	Faculty	Course	Topic	No.	Faculty
	Lect		Code/		of	
			Paper		Lect	
Pharmaceutical	12	GM		Pharmaceutical	12	GM
Chemistry			CEC	Chemistry		
			SEC			
	Topic harmaceutical	Topic No. of Lect harmaceutical 12	Topic No. of Lect Faculty harmaceutical 12 GM	Topic No. of Lect Course Code/Paper harmaceutical 12 GM	Topic No. of Lect Code/ Paper Topic harmaceutical 12 GM Pharmaceutical Chemistry	Topic No. of Lect Code/ Paper Topic No. of Lect Pharmaceutical Chemistry Course Code/ Paper Pharmaceutical Chemistry Course Code/ Paper Pharmaceutical Chemistry Course Code/ Paper Course Code/ Paper Course Code/ Paper Course Course Topic No. of Lect Pharmaceutical Chemistry Course Course Code/ Paper Code/ Paper Course Code/ Paper

SEMESTER-4(GENERIC)

	Jan '24 to Mar	'24			Apr'24 to Jun'	24	
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty
Code/		Lect	-	Code/		of	
Paper				Paper		Lect	
	Alcohol, Phenol	15	GM		Amino acids and	8	GM
	and Ethers				Carbohydrates		
	Carbonyl	10	GM		Crystal Field	5	AP
	Compounds				Theory		
GE-4	Carboxylic Acids	8	GM	GE-1	Quantum	10	AD
	and Their				Chemistry and		
	Derivatives				Spectroscory		
	Amines and	5	GM	1			
	Diazonium salts						
	Practical	27	AP		Practical	18	AP

SEMESTER-6 (HONOURS)

	Jan '24 to Ma	ar '24		Apr'24 to Jun' 24					
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 '24 to Mar '	24			Apr'24 to Jun'	24	
Course	Topic	No. of	Faculty	Course	Topic	No.	Faculty
Code/		Lect		Code/		of	
Paper				Paper		Lect	
	Molecular	25	AD		Surface	15	AD
	Spectroscopy				Phenomenon		
	Photochemistry	15	AD		Dipole Moment	05	AD
CC-14	and theory of			CC-14	and		
CC-14	reaction rate			CC-14	Polarizability		
	PHYSICAL	27	AD		PHYSICAL	18	AD
	CHEMISTRY				CHEMISTRY		
	PRACTICAL				PRACTICAL		

	Jan '23 to Mar '	23		Apr'23 to Jun' 23					
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		