Lesson plan for the Academic Session July 2021- June22

Department of Chemistry

ODD SEMESTER- HONOURS

SEMESTER ONE HONOURS

Semester	Paper	Unit	Topic	JULY – SEPTEMBER/ OCTOBER- DECEMBER	Faculty Name
	CC-1-1-TH+P				
SEMESTER ONE HONOURS	Inorganic Chemistry -1		Extra Nuclear Structure of Atom	SEPTEMBER-DECEMBER	DR. KINJALKINI BISWAS
SEMESTER ONE HONOURS	Inorganic Chemistry -1		1.Acid-Base Reactions 2. Solubility and Solubility effect	SEPTEMBER-DECEMBER	DR. SENJUTI MANDAL
SEMESTER ONE HONOURS	Inorganic Chemistry -1		Redox Reactions	SEPTEMBER-DECEMBER	AMBALIKA CHAKRABORTY
SEMESTER ONE HONOURS	Inorganic Chemistry : I(1) LAB		 Acid and Base Titrations Oxidation-Reduction Titrations 	SEPTEMBER-DECEMBER	AMBALIKA CHAKRABORTY AND DR. SENJUTI MANDAL
SEMESTER ONE HONOURS	ORGANIC CHEMISTRY- 1A		Basics of Organic Chemistry: 1. Bonding and Physical Properties 2. General Treatment of Reaction Mechanism I	SEPTEMBER-DECEMBER	SMT. JHILMIL BHATTACHARYA
SEMESTER ONE HONOURS	ORGANIC CHEMISTRY: 0 (1A) LAB		Separation based upon solubility, by using common laboratory reagents of components of a binary solid mixture	SEPTEMBER-DECEMBER	SMT. JHILMIL BHATTACHARYA AND DR. SARAT CHANDRA PATRA
SEMESTER ONE	CC-1-2-TH+P PHYSICAL CHEMISTRY-		Kinetic Theory and Gaseous state	SEPTEMBER-DECEMBER	DR. DEEP MONDAL

HONOURS	1			
SEMESTER	PHYSICAL	Transport processes	SEPTEMBER-DECEMBER	GARGEE GHOSH
ONE	CHEMISTRY-			
HONOURS	1			
SEMESTER	PHYSICAL	Chemical kinetics	SEPTEMBER-DECEMBER	GARGEE GHOSH
ONE	CHEMISTRY-			
HONOURS	1			
SEMESTER	ORGANIC	Stereochemistry I, General	SEPTEMBER-DECEMBER	DR. SARAT CHANDRA
ONE	CHEMISTRY-	Treatment of Reaction		PATRA
HONOURS	IB	Mechanism II		
SEMESTER	PHYSICAL	Study of kinetics, viscosity,	SEPTEMBER-DECEMBER	GARGEE GHOSH
ONE	CHEMISTRY:	and determination of		
HONOURS	P (1) LAB	solubility of sparingly		
		soluble salt in water		
SEMESTER	ORGANIC	Determination of boiling	SEPTEMBER-DECEMBER	SMT. JHILMIL
ONE	CHEMISTRY:	point of common organic		BHATTACHARYA AND
HONOURS	O (1B) LAB	liquid compounds		DR. SARAT CHANDRA
				PATRA

SEMESTER THREE HONOURS

Semester	Paper	Unit	Topic	JULY – SEPTEMBER/	Faculty Name
				OCTOBER- DECEMBER	
	CC-3-5-TH+P				
SEMESTER	PHYSICAL		Chemical	AUGUST- DECEMBER	DR. DEEP MONDAL
THREE	CHEMISTRY-2		Thermodynamics I and		
HONOURS			Chemical		
			Thermodynamics II		
SEMESTER	PHYSICAL		Systems of Variable	AUGUST- DECEMBER	GARGEE GHOSH
THREE	CHEMISTRY-2		Composition, Chemical		
HONOURS			Equilibrium,		
			Electrochemistry		
SEMESTER	PHYSICAL		Conductometric and	AUGUST-DECEMBER	GARGEE GHOSH
THREE	CHEMISTRY-2		potentiometric study,		
HONOURS	LAB		heat of neutralization		
			study		
	CC-3-6-TH+P				
SEMESTER	CC-3-6(TH)		Coordination Chemistry-I	AUGUST- DECEMBER	DR.KINJALKINI
THREE	Inorganic				BISWAS
HONOURS	Chemistry-3				

SEMESTER	CC-3-6(TH)	1. Chemical Periodicity	AUGUST- DECEMBER	AMBALIKA
THREE	3 3 3(11.)	2. Inorganic Polymer	7.00001 BEGENIBER	CHAKRABORTY
HONOURS	Inorganic	2. mergame i erymei		
HONOUNS	Chemistry-3			
SEMESTER	CC-3-6(TH)	1. Chemistry of s and p	AUGUST- DECEMBER	DR. SENJUTI
THREE	Inorganic	Block Elements	AOGOST DECEMBER	MANDAL
HONOURS	Chemistry-3	2. Noble Gases		IVIANDAL
SEMESTER	CC-3-6(P)		AUGUST- DECEMBER	DR. SENJUTI
-	CC-3-6(P)	1. Complexometric	AUGUST- DECEIVIBER	
THREE		Titration		MANDAL AND
HONOURS		2. Chromatography of		AMBALIKA
		metal ions		CHAKRABORTY
		3. Gravimetry		
SEMESTER	SEC-2	Crabohydrates; Proteins	AUGUST- DECEMBER	SMT. JHILMIL
THREE	Analytical			BHATTACHARYA
HONOURS	Clinical			
	Biochemistry			
SEMESTER	SEC-2	Enzymes	AUGUST- DECEMBER	DR. SENJUTI
THREE	Analytical			MANDAL
HONOURS	Clinical			
	Biochemistry			
SEMESTER	SEC-2	Lipids; Lipoproteins,	AUGUST- DECEMBER	DR. PRIYA K GOPAL
THREE	Analytical	Structure, Genetic Code		
HONOURS	Clinical	and Biological roles of		
	Biochemistry	DNA and RNA		
SEMESTER	SEC-2	Biochemistry of Disease:	AUGUST- DECEMBER	AMBALIKA
THREE	Analytical	A diagnostic approach by		CHAKRABORTY
HONOURS	Clinical	blood/urine analysis		
	Biochemistry	, and the second second		
	CEMA-CC-3-			
	7-TH + P			
SEMESTER	CEMA-CC-3-	Chemistry of alkenes and	AUGUST- DECEMBER	SMT. JHILMIL
THREE	7-TH	alkynes; Aromatic		BHATTACHARYA
HONOURS	ORGANIC	Substitution		
	CHEMISTRY-3			
SEMESTER	CEMA-CC-3-	Carbonyl and Related	AUGUST- DECEMBER	DR. SARAT CHANDRA
THREE	7-TH	Compounds;		PATRA
HONOURS	ORGANIC	Organometallics		
	CHEMISTRY-3			
SEMESTER	CEMA-CC-3-	A. Identification of a Pure	AUGUST- DECEMBER	SMT. JHILMIL
THREE	7-P	Organic Compound		BHATTACHARYA
HONOURS	ORGANIC	B. Quantitative		AND DR. SARAT
	CHEMISTRY-3	Estimations		CHANDRA PATRA
	LAB			
	CETED FIVE HONOLIDE			

Semester	Paper	Unit	Topic	JULY - SEPTEMBER/	Faculty Name
				OCTOBER- DECEMBER	
	CEMA-CC-5-				
	11-TH + P				
SEMESTER	CEMA-CC-5-		1. Quantum Chemistry II:	JULY/AUGUST-	GARGEE GHOSH
FIVE	11-TH		Simple Harmonic	DECEMBER	
HONOURS	PHYSICAL		Oscillator; Angular		
	CHEMISTRY		momentum; Hydrogen		
	- 4		atom and hydrogen-like		
			ions; LCAO		
			2. Statistical		
			Thermodynamics		
SEMESTER	CEMA-CC-5-		Numerical Analysis	JULY/AUGUST-	Dr. Deep Mondal
FIVE	11-TH			DECEMBER	
HONOURS	PHYSICAL				
	CHEMISTRY				
	- 4				
SEMESTER	CEMA-CC-5-		Computer programs(Using	JULY/AUGUST-	MR. SURAJ ALI
FIVE	11-P		FORTRAN or C or C ++)	DECEMBER	
HONOURS	PHYSICAL		based on numerical		
	CHEMISTRY		methods		
	-4 LAB				
	CEMA-CC-5-				
	12-TH + P				
SEMESTER	CEMA-CC-5-		Polynuclear hydrocarbons	JULY/AUGUST-	SMT. JHILMIL
FIVE	12-TH		and their derivatives;	DECEMBER	BHATTACHARYA
HONOURS	ORGANIC		Carbohydrates;		
	CHEMISTRY		Biomolecules		
	- 5				
SEMESTER	CEMA-CC-5-		Heterocycles: Heterocyclic	JULY/AUGUST-	DR. SARAT CHANDRA
FIVE	12-TH		compounds; Cyclic	DECEMBER	PATRA
HONOURS	ORGANIC		Stereochemistry; Pericyclic		
	CHEMISTRY		reactions		
	- 5				
SEMESTER	CEMA-CC-5-		A. Chromatographic	JULY-NOVEMBER	SMT. JHILMIL
FIVE	12-P		Separations		BHATTACHARYA AND
HONOURS	ORGANIC		B. Spectroscopic Analysis		DR. SARAT CHANDRA
	CHEMISTRY		of Organic Compounds	DECEMBER	PATRA
	– 5 LAB				
	DSE-A-2				
	TH+P				

SEMESTER	DSE-A-2:	Computer Programming	JULY/AUGUST-	MR. SURAJ ALI
FIVE	APPLICATIO	Basics (FORTRAN)	DECEMBER	, , , , , , , , , , , , , , , , , , ,
HONOURS	NS OF			
	COMPUTER			
	SIN			
	CHEMISTRY			
SEMESTER	DSE-A-2:	Introduction to	JULY/AUGUST-	MR. SUBHANKAR
FIVE	APPLICATIO	Spreadsheet Software(MS	DECEMBER	SAHA
HONOURS	NS OF	Excel)		
	COMPUTER			
	SIN			
	CHEMISTRY			
SEMESTER	DSE-A-2:	Statistical Analysis	JULY/AUGUST-	MR. SUBHANKAR
FIVE	APPLICATIO		DECEMBER	SAHA
HONOURS	NS OF			
	COMPUTER			
	SIN			
	CHEMISTRY			
SEMESTER	PRACTICALS	Applications of Fortran	JULY/AUGUST-	MR. SURAJ ALI and
FIVE	DSE-A-2:	and Spreadsheet	DECEMBER	
HONOURS	APPLICATIO	Software(MS Excel)		MR. SUBHANKAR
	NS OF			SAHA
	COMPUTER			
	SIN			
	CHEMISTRY			
	DSE-B-1			
	TH+P			
SEMESTER	DSE B1(TH)	Silicate Industries:	JULY/AUGUST-	DR.KINJALKINI
FIVE	Inorganic	Glass,Ceramics,Cement	DECEMBER	BISWAS
HONOURS	Materials of			
	Industrial			
	Importance			
SEMESTER	DSEB1(TH)In	1. Fertilizers 2.Surface	JULY/AUGUST-	AMBALIKA
FIVE	organic	Coatings, 3.Batteries	DECEMBER	CHAKRABORTY
HONOURS	Materials of			
	Industrial			
	Importance			
SEMESTER	DSEB1(TH)In	1. Alloys 2. Catalysts 3.	JULY/AUGUST-	DR. SENJUTI
FIVE	organic	Chemical Explosives	DECEMBER	MANDAL
HONOURS	Materials of	F		
	Industrial			
	Importance			
SEMESTER	DSEB1(P)	Analysis of Fertilizer,	JULY/AUGUST-	DR. SENJUTI
FIVE	Inorganic	Analysis of alloy, Analysis	DECEMBER	MANDAL AND
IIVL	morganic	Alialysis of alloy, Alialysis	PECTINIDEL	IVIAIVDALAIVD

HONOURS	Materials of	of Cement, Determination	AMBALIKA	l
	Industrial	of Composition of	CHAKRABORTY	1
	Importance	Dolomite, Electroless		l
		Metallic Coatings on		l
		ceramic and plastic		l
		material, Preparation of		l
		Pigment		l

ODD SEMESTER- GENERAL

SEMESTER ONE GENERAL

Semester	Paper	Unit	Topic	JULY – SEPTEMBER/ OCTOBER- DECEMBER	Faculty Name
	CC-1/GE-1				
	TH+P				
SEMESTER	CC-1/GE-		1. Atomic Structure	SEPTEMBER-DECEMBER	AMBALIKA
ONE	1(TH)		2. Chemical Periodicity		CHAKRABORTY
GENERAL					
SEMESTER	CC-1/GE-		1. Liquids	SEPTEMBER-DECEMBER	DR. SENJUTI
ONE	1(TH)		2. Acids and Bases		MANDAL
GENERAL					
SEMESTER	CC-1/GE-		1. Fundamentals of	SEPTEMBER-DECEMBER	DR. SARAT CHANDRA
ONE	1(TH)		Organic Chemistry		PATRA
GENERAL			2. Stereochemistry		
SEMESTER	CC-1/GE-		1. Chemical Kinetics	SEPTEMBER-DECEMBER	SMT. JHILMIL
ONE	1(TH)		2. Nucleophilic		BHATTACHARYA
GENERAL			Substitution and		
			Elimination Reactions		
SEMESTER	CC-1/GE-		Kinetic Theory of Gases	SEPTEMBER-DECEMBER	GARGEE GHOSH
ONE	1(TH)		and Real gases		
GENERAL					
SEMESTER	CC-1/GE-		1.Acid-Base Titration	SEPTEMBER-DECEMBER	DR. SENJUTI
ONE	1(P)		2. Redox Titration		MANDAL AND
GENERAL					AMBALIKA
					CHAKRABORTY

SEMESTER THREE GENERAL

Semester	Paper	Unit	Topic	JULY – SEPTEMBER/	Faculty Name
				OCTOBER- DECEMBER	
	CC-3/GE-3				

	TH+P			
SEMESTER	CC-3/GE-3	1.Coordination Chemistry	AUGUST- DECEMBER	AMBALIKA
THREE	TH	2. Comparative Study of p-		CHAKRABORTY
GENERAL		block elements		
SEMESTER	CC-3/GE-3	1. Chemical Bonding and	AUGUST- DECEMBER	DR. SENJUTI
THREE	TH	Molecular Structure		MANDAL
GENERAL		2. Transition Elements (3d		
		Series)		
SEMESTER	CC-3/GE-3	1. Aromatic Hydrocarbons	AUGUST- DECEMBER	SMT. JHILMIL
THREE	TH	2. Electromotive force		BHATTACHARYA
GENERAL				
SEMESTER	CC-3/GE-3	1. Organometallic	AUGUST- DECEMBER	DR. SARAT CHANDRA
THREE	TH	Compounds		PATRA
GENERAL		2. Aryl Halides		
SEMESTER	CC-3/GE-3	1. Ionic Equilibria	AUGUST- DECEMBER	GARGEE GHOSH
THREE	TH	2. Conductance		
GENERAL				
SEMESTER	CC-3/GE-	Qualitative Semimicro	AUGUST- DECEMBER	DR. SENJUTI
THREE	3(P)	Analysis of Mixtures		MANDAL AND
GENERAL	Qualitative	Containing Two Radicals		AMBALIKA
	Analysis of			CHAKRABORTY
	Inorganic			
	Sample			

SEMESTER FIVE GENERAL

Semester	Paper DSE (Discipline Specific Course)-A-2 TH+P	Unit	Topic	JULY – SEPTEMBER/ OCTOBER- DECEMBER	Faculty Name
SEMESTER FIVE GENERAL	DSE-A-2(TH) Inorganic Materials of Industrial Importance		 Fertilizers 2.Surface Coatings 3.Batteries Silicate Industries: Cement 	AUGUST- DECEMBER	AMBALIKA CHAKRABORTY
SEMESTER FIVE GENERAL	DSE-A-2(TH) Inorganic Materials of Industrial Importance		 Alloys Catalysts Chemical Explosives Silicate Industries: Glass, Ceramics 	AUGUST- DECEMBER	DR. SENJUTI MANDAL

SEMESTER FIVE GENERAL	DSE-A-2(P)	Analysis of Fertilizer, Analysis of alloy, Analysis of Cement, Determination of Composition of Dolomite, Electroless Metallic Coatings on ceramic and plastic material, Preparation of Pigment	AUGUST- DECEMBER	DR.SENJUTI MANDAL AND AMBALIKA CHAKRABORTY
SEMESTER FIVE GENERAL	SEC-2 Analytical Clinical Biochemistry	 Carbohydrates Proteins 	AUGUST- DECEMBER	SMT. JHILMIL BHATTACHARYA
SEMESTER FIVE GENERAL	SEC-2 Analytical Clinical Biochemistry	Enzymes	AUGUST- DECEMBER	DR.SENJUTI MANDAL
SEMESTER FIVE GENERAL	SEC-2 Analytical Clinical Biochemistry	 Lipids Lipotroteins Structure, Genetic Code and Biological roles of DNA and RNA 	AUGUST- DECEMBER	DR. PRIYA K. GOPAL
SEMESTER FIVE GENERAL	SEC-2 Analytical Clinical Biochemistry	Biochemistry of Disease: A diagnostic approach by blood/urine analysis	AUGUST- DECEMBER	AMBALIKA CHAKRABORTY

EVEN SEMESTER- HONOURS

SEMESTER TWO HONOURS

Semester	Paper	Unit	Topic	JANUARY- MARCH/	Faculty Name
				APRIL -JUNE	
	CC-2-3-TH+P				
SEMESTER	ORGANIC		Stereochemistry II:	JANUARY-JUNE	DR. SARAT CHANDRA
TWO	CHEMISTRY-		Chirality arising out of		PATRA
HONOURS	2		stereoaxis, Concept of		
			prostereoisomerism,		
			Conformation		
SEMESTER	ORGANIC		General Treatment of	JANUARY-JUNE	DR. DEEP MONDAL
TWO	CHEMISTRY-		Reaction Mechanism III:		

HONOURS	2	Reaction thermodynamics,		
		Tautomerism, Reaction		
		kinetics		
SEMESTER	ORGANIC	Substitution and	JANUARY-JUNE	SMT. JHILMIL
TWO	CHEMISTRY-	Elimination Reactions,		BHATTACHARYA
HONOURS	2	Free-radical substitution		
		reaction, Nucleophilic		
		substitution reactions,		
		Elimination reactions		
SEMESTER	ORGANIC	Organic Preparations	FEBRUARY-JUNE	SMT. JHILMIL
TWO	CHEMISTRY-			BHATTACHARYA AND
HONOURS	2 LAB			DR. SARAT CHANDRA
				PATRA
	CC-2-4-TH+P			
SEMESTER	CC-2-4-(TH)	Chemical Bonding-I	JANUARY-JUNE	DR. KINJALKINI
TWO	Inorganic			BISWAS
HONOURS	Chemistry-2			
SEMESTER	CC-2-4-(TH)	Chemical Bonding-II	JANUARY-JUNE	DR. SENJUTI
TWO	Inorganic			MANDAL
HONOURS	Chemistry-2			
SEMESTER	CC-2-4-(TH)	Radioactivity	JANUARY-JUNE	AMBALIKA
TWO	Inorganic			CHAKRABORTY
HONOURS	Chemistry-2			
SEMESTER	CC-2-4-(P)	1.lodo-/iodimetric	JANUARY-JUNE	DR. SENJUTI
TWO		Titrations		MANDAL and
HONOURS		2.Estimation of metal		AMBALIKA
		content in some		CHAKRABORTY
		selective samples		
	755 50115 11611	: -:		

SEMESTER FOUR HONOURS

Semester	Paper	Unit	Topic	JANUARY- MARCH/	Faculty Name
				APRIL -JUNE	
	CC-4-8-TH+P				
SEMESTER	CC-4-8-TH		Nitrogen compounds;	JANUARY-JUNE	SMT. JHILMIL
FOUR	ORGANIC		Rearrangements		BHATTACHARYA
HONOURS	CHEMISTRY-				
	4				
SEMESTER	CC-4-8-TH		The Logic of Organic	JANUARY-JUNE	DR. SARAT CHANDRA
FOUR	ORGANIC		Synthesis;		PATRA
HONOURS	CHEMISTRY-		Organic Spectroscopy		
	4				
SEMESTER	CC-4-8- P		Qualitative Analysis of	JANUARY-JUNE	SMT. JHILMIL
FOUR	ORGANIC		Single Solid Organic		BHATTACHARYA AND
HONOURS	CHEMISTRY-		Compounds		DR. SARAT CHANDRA

	4 LAB			PATRA
	CC-4-9-TH+P			
SEMESTER	CC-4-9-TH	Application of	JANUARY-JUNE	DR. DEEP MONDAL
FOUR	PHYSICAL	Thermodynamics – II:		
HONOURS	CHEMISTRY	Colligative properties;		
	3	Phase Equilibrium		
SEMESTER	CC-4-9-TH	Foundation of Quantum	JANUARY-JUNE	GARGEE GHOSH
FOUR	PHYSICAL	Mechanics; Crystal		
HONOURS	CHEMISTRY	Structure		
	3			
SEMESTER	CC-4-9-P	Study of inversion of cane	JANUARY-JUNE	GARGEE GHOSH
FOUR	PHYSICAL	sugar, Study of Phase		
HONOURS	CHEMISTRY	diagram, pH metric		
	3 LAB	analysis and titration		
SEMESTER	SEC -4 TH	General introduction to	JANUARY-JUNE	SMT. JHILMIL
FOUR	PESTICIDE	pesticides, synthesis and		BHATTACHARYA
HONOURS	CHEMISTRY	technical		
		manufacture, uses of		
		representative pesticides		
	CC-4-10-			
	TH+P			
SEMESTER	CC-4-10(TH)	1.Chemistry of d-and f-	JANUARY-JUNE	DR. KINJALKINI
FOUR	Inorganic	block elements		BISWAS
HONOURS	Cemistry-4	2.Lanthanoids and		
		Actinoids		
SEMESTER	CC-4-10(TH)	Coordination Chemistry II	JANUARY-JUNE	DR. SENJUTI
FOUR	Inorganic			MANDAL
HONOURS	Cemistry-4			
SEMESTER	CC-4-10(TH)	Reaction Kinetics and	JANUARY-JUNE	AMBALIKA
FOUR	Inorganic	Mechanism		CHAKRABORTY
HONOURS	Cemistry-4			
SEMESTER	CC-4-10(P)	Inorganic Preparations and	JANUARY-JUNE	DR. SENJUTI
FOUR		Instrumental Techniques		MANDAL and
HONOURS				AMBALIKA
				CHAKRABORTY

SEMESTER SIX HONOURS

Semester	Paper	Unit	Topic	JANUARY- MARCH/	Faculty Name
				APRIL -JUNE	
	CC-6-13-				
	TH+P				
SEMESTER	CC-6-13(TH)		Bioinorganic Chemistry	JANUARY-JUNE	DR. KINJALKINI
SIX	Inorganic				BISWAS
HONOURS	Chemistry-5				

SEMESTER	CC-6-13(TH)	Theoretical Principles in	JANUARY-JUNE	AMBALIKA
SIX	Inorganic	Qualitative Analysis		CHAKRABORTY
HONOURS	Chemistry-5			
SEMESTER	CC-6-13(TH)	1. Organometallic	JANUARY-JUNE	DR. SENJUTI
SIX	Inorganic	Chemistry		MANDAL
HONOURS	Chemistry-5	2. Catalysis by		
		Organometallic		
		Compounds		
SEMESTER	CC-6-13(P)	Qualitative Semimicro	JANUARY-JUNE	DR. SENJUTI
SIX	Qualitative	Analysis of Mixtures		MANDAL AND
HONOURS	Analysis of	Containing Not More than		AMBALIKA
	Inorganic	Three Radicals		CHAKRABORTY
	Sample			
	CC-6-14-			
	TH+P			
SEMESTER	CC-6-14-TH	1. Molecular Spectroscopy	JANUARY-JUNE	GARGEE GHOSH
SIX	PHYSICAL	2. Photochemistry and		
HONOURS	CHEMISTRY-	Theory of reaction rate		
	5			
SEMESTER	CC-6-14-TH	1. Surface phenomenon	JANUARY-JUNE	DR. DEEP MONDAL
SIX	PHYSICAL	2. Dipole moment and		
HONOURS	CHEMISTRY-	polarizability		
	5			
SEMESTER	CC-6-14-TH	Experiments of surface	JANUARY-JUNE	GARGEE GHOSH
SIX	PHYSICAL	tension, application of		
HONOURS	CHEMISTRY-	spectrophotometry,		
	5 LAB			
	DSE-A-3 TH			
	+ P			
SEMESTER	DSE-A-3 TH	Introduction to Green	JANUARY-JUNE	SMT. JHILMIL
SIX	GREEN	Chemistry; Principles of		BHATTACHARYA
HONOURS	CHEMISTRY	Green Chemistry and		
	AND	Designing a Chemical		
	CHEMISTRY	synthesis; Future Trends in		
	OF	Green Chemistry		
	NATURAL			
	PRODUCTS			
SEMESTER	DSE-A-3 TH	Examples of Green	JANUARY-JUNE	DR. SARAT CHANDRA
SIX	GREEN	Synthesis/ Reactions and		PATRA
HONOURS	CHEMISTRY	some real world cases;		
	AND	Alkaloids; Terpenes		
	CHEMISTRY			
	OF			
	NATURAL			

	PRODUCTS			
SEMESTER	DSE-A-3 P	Green methods based	JANUARY-JUNE	SMT. JHILMIL
SIX	PRACTICALS	Organic Preparations		BHATTACHARYA and
HONOURS	GREEN			DR. SARAT CHANDRA
	CHEMISTRY			PATRA

EVEN SEMESTER- GENERAL

SEMESTER TWO GENERAL

Semester	Paper	Unit	Topic	JANUARY- MARCH/	Faculty Name
				APRIL -JUNE	
	CC-2/GE-2-				
	TH+P				
SEMESTER	CC2/GE2(TH)		Redox Reactions	JANUARY-JUNE	AMBALIKA
TWO					CHAKRABORTY
GENERAL					
SEMESTER	CC2/GE2(TH)		1. Chemical Equilibrium	JANUARY-JUNE	DR. SENJUTI
TWO			2. Solutions		MANDAL
GENERAL					
SEMESTER	CC2/GE2(TH)		1. Chemical	JANUARY-JUNE	GARGEE GHOSH
TWO			Thermodynamics		
GENERAL			2. Phase Equilibria		
SEMESTER	CC2/GE2(TH)		Aliphatic Hydrocarbons	JANUARY-JUNE	SMT. JHILMIL
TWO					BHATTACHARYA
GENERAL					
SEMESTER	CC2/GE2(TH)		1. Solids	JANUARY-JUNE	DR. SARAT CHANDRA
TWO			2. Error Analysis and		PATRA
GENERAL			Computer Applications		
SEMESTER	CC2/GE2(P)		Study of kinetics, viscosity,	JANUARY-JUNE	GARGEE GHOSH
TWO			Determination of solubility		
GENERAL			of sparingly soluble salt in		
			water, pH of an unknown		
			buffer solution,		
			Determination of surface		
			tension of a liquid		

SEMESTER FOUR GENERAL

Semester	Paper	Unit	Topic	JANUARY- MARCH/	Faculty Name
				APRIL -JUNE	
	CC-4/GE-4				
	TH+P				
SEMESTER	CC4/GE4(TH)		Alcohols, Phenols and	JANUARY-JUNE	SMT. JHILMIL

FOUR		Ethers		BHATTACHARYA
GENERAL				
SEMESTER	CC4/GE4(TH)	1. Carbonyl Compounds	JANUARY-JUNE	DR. SARAT CHANDRA
FOUR		2. Carboxylic Acids and		PATRA
GENERAL		Their Derivatives		
SEMESTER	CC4/GE4(TH)	1. Amines and Diazonium	JANUARY-JUNE	DR. SENJUTI
FOUR		Salts		MANDAL
GENERAL		2. Amino Acids and		
		Carbohydrate		
SEMESTER	CC4/GE4(TH)	Crystal Field Theory	JANUARY-JUNE	AMBALIKA
FOUR				CHAKRABORTY
GENERAL				
SEMESTER	CC4/GE4(TH)	Quantum Chemistry &	JANUARY-JUNE	GARGEE GHOSH
FOUR		Spectroscopy		
GENERAL				
SEMESTER	CC4/GE4(P)	1.Qualitative Analysis of	JANUARY-APRIL	SMT. JHILMIL
FOUR		Single Solid Organic		BHATTACHARYA AND
GENERAL		Compound(s)		DR. SARAT CHANDRA
		2. Identification of a pure	MAY-JUNE	PATRA
		organic compound		

SEMESTER SIX GENERAL

Semester	Paper	Unit	Topic	JANUARY- MARCH/ APRIL -JUNE	Faculty Name
	DSE B-1-TH + P				
SEMESTER SIX GENERAL	DSE B-1-TH		 Introduction to Green Chemistry Principles of Green Chemistry and Designing a Chemical synthesis Future Trends in Green Chemistry 	JANUARY-JUNE	SMT. JHILMIL BHATTACHARYA
SEMESTER SIX GENERAL	DSE B-1-TH		 Examples of Green Synthesis/ Reactions and some real world cases Alkaloids Terpenes 	JANUARY-JUNE	DR. SARAT CHANDRA PATRA
SEMESTER SIX GENERAL	DSE B-1-P		Organic preparations following green methods	JANUARY-JUNE	SMT. JHILMIL BHATTACHARYA AND DR. SARAT CHANDRA PATRA