			ga Palpara Mahavio OF CHEMISTRY (Ge			
	TEAC		nistry (General) (Se		22)	
Semester	Paper	Unit/Module		Teacher	No. of lectures	To be completed by
Semester-1	DSC1AT	Inorganic Chemistry-1		Dr. Sabyasachi Khatua	6	1 st month
			Chemical Bonding and Molecular Structure	Dr. Sanjib Dey	6	2 nd month
			Fundamentals of Organic Chemistry	Sudip Maity	4	1 st Month
			Stereochemistry Aliphatic Hydrocarbons	Sudip Maity	12	2 nd month, 3 rd month, 4 th month
	DSC1AP	Inorganic Chemistry	Estimation of Na ₂ CO ₃ and NaHCO ₃ in a mixture	Dr. Sabyasachi Khatua		1 st Month& 2 month
			Estimation of oxalic acid by titrating it with KMnO4	Dr. Sabyasachi Khatua	. 12	
			Estimation of water of crystallization in Mohr's salt by titrating with KMnO4	Dr. Sabyasachi Khatua		
			Estimation of Fe (II) ions by titrating it with K2Cr2O7 using internal indicator	Dr. Sabyasachi Khatua		
			Estimation of Cu (II) ions iodometrically using Na2S2O3	Dr. Sabyasachi Khatua		
		Organic Chemistry	Detection of extra elements (N, S, Cl, Br, I) in organic compounds (containing upto two extra elements)	Dr. Sabyasachi Khatua		3 rd month
				Dr. Sabyasachi Khatua	4	4 th month
Semester-2	DSC1BT	Physical Chemistry-1	Chemical Energetic	Dr. Sabyasachi Khatua	6	1 st month
			Chemical Equilibrium Ionic Equilibria:	Dr. Sabyasachi Khatua Dr. Sanjib Dey	4	2 nd month 3 rd month

Organic Chemistry- 2	Aromatic hydrocarbons	Sudip Maity	4	1 st month
	Alkyl and Aryl Halides	Sudip Maity	6	2 nd month
	Alcohols, Phenols and Ethers (Upto 5 Carbons)	Sudip Maity	4	3 rd month

			Ethers (aliphatic and aromatic): Aldehydes and ketones (aliphatic and aromatic):	Sudip Maity	6	4 th month
	DSC1BP	Physical Chemistry	All	Dr. Sanjib Dey	16	1 st month 2 nd month 3 rd & 4 th
		Organic Chemistry	All			month
Semester-3	DSC1CT	DSC1CT Physical Chemistry-2	Solutions	Dr. Sabyasachi Khatua	6	1 st month 2 nd month
		5	Conductance	Dr. Sanjib Dey	4	3 rd & 4 th month
			Phase equilibria	Dr. Sanjib Dey	6]
			Electrochemistry	Dr. Sabyasachi Khatua	6	
		Organic Chemistry- 3	All	Sudip Maity	12	1 st month 2 nd month 3 rd & 4 th month

DSC1CP	Physical Chemistry Lab		Dr. Sabyasachi Khatua		1 st month 2 nd month
		1 1	Dr. Sabyasachi Khatua		3 rd
		Conductance	Dr. Sabyasachi Khatua	15	
		Potentiometry	Dr. Sabyasachi Khatua		
	Organic Chemistry Lab		Dr. Sabyasachi Khatua		4 th month
SEC1T	Basic Analytical Chemistry	Introduction, Analysis of soil, Analysis of water, Analysis of food products, Chromatography, Ion- exchange	Dr. Sabyasachi Khatua	12	1 st ,2 nd , 3 rd month
SEC1P	Basic Analytical Chemistry Lab		Dr. Sanjib Dey	8	3 rd , 4 th and 5 th month

DSC1DT	Inorganic	Transition		6	1 st and2 nd
	Chemistry	Elements (3d series	Sudip Maity		month
		Coordination Chemistry	Dr. Sanjib Dey	4	3 rd month
		Crystal Field Theory	Sudip Maity	5	3 rd and 4 th month
	Physical Chemistry-3	Kinetic Theory of Gases	Dr. Sanjib Dey	6	1 st and2 nd 3 rd & 4 th month
		Liquids	Dr. Sabyasachi Khatua	4	
		Solids	Dr. Sabyasachi Khatua	4	
		Chemical Kinetics	Dr. Sabyasachi Khatua	6	
DSC1DP CHEMISTRY (LAB)	Inorganic Chemistry	/Semi-micro qualitative analysis	Dr. Sabyasachi Khatua	7	1 st , 2 nd and 3 rd month
	Physical Chemistry	Surface tension measurement	Dr. Sabyasachi Khatua		2 nd , 3 rd & 4 th month
		Viscosity measurement	Dr. Sabyasachi Khatua	15	
		Chemical Kinetics	Dr. Sabyasachi Khatua		
	CHEMISTRY	DSC1DP CHEMISTRY (LAB)	seriesCoordination ChemistryPhysical Chemistry-3Physical Chemistry-3Kinetic Theory of Gases LiquidsSolids Chemical KineticsDSC1DP CHEMISTRY (LAB)DSC1DP CHEMISTRY (LAB)Physical Physical ChemistryPhysical ChemistrySurface tension measurement Viscosity measurement	seriesImage: SeriesCoordination ChemistryDr. Sanjib Dey ChemistryPhysical Chemistry-3Crystal Field TheoryPhysical Chemistry-3Kinetic Theory of GasesDr. Sanjib Dey Chemistry-3Dr. Sanjib Dey GasesLiquidsDr. Sabyasachi KhatuaSolids Chemical KineticsDr. Sabyasachi KhatuaDSC1DP CHEMISTRY (LAB)Inorganic Chemistry Semi-micro qualitative analysisDr. Sabyasachi KhatuaPhysical ChemistrySurface tension measurementDr. Sabyasachi KhatuaViscosity measurementDr. Sabyasachi KhatuaViscosity measurementDr. Sabyasachi KhatuaDr. Sabyasachi KhatuaDr. Sabyasachi 	seriesandseriesCoordination ChemistryDr. Sanjib Dey4Crystal Field TheorySudip Maity5Physical Chemistry-3Kinetic Theory of GasesDr. Sanjib Dey Chemistry6Dr. Sabyasachi KhatuaASolidsDr. Sabyasachi Khatua4SolidsDr. Sabyasachi Khatua4DSC1DP CHEMISTRY (LAB)Inorganic Chemistry Semi-micro qualitative analysisDr. Sabyasachi Khatua6DSC1DP CHEMISTRY (LAB)Inorganic Chemistry Semi-micro qualitative analysisDr. Sabyasachi Khatua7Physical ChemistrySurface tension measurementDr. Sabyasachi Khatua15Inorganic ChemistrySurface tension measurementDr. Sabyasachi Khatua15

	SEC2T	Analytical	Basic	Sudip Maity	8	1 st , 2 nd month
		Clinical Biochemistry	understanding of the structures, properties and functions of carbohydrates, lipids and proteins:			
			Biochemistry of disease: A	Dr. Sabyasachi Khatua	4	3 rd month
	SEC2P	Analytical Clinical Biochemistry Lab		Dr. Sabyasachi Khatua	8	3 rd , 4 th and 5 th month
Semester-5	DSE1AT Organometa Ilics,	Inorganic Chemistry-4	Compounds	Dr. Sabyasachi Khatua	6	1 st and
	Bioinorganic Chemistry, Polynuclear hydrocarbon s and UV, IR Spectroscop Y		Chemistry of 3d metals	Dr. Sanjib Dey	4	2 nd month 2 nd , 3 rd and 4 th month
			Bio-inorganic Chemistry	Sudip Maity	10	
		Organic Chemistry – 4	Polynuclear and heteronuclear aromatic compounds Active methylene compounds	Dr. Sanjib Dey Dr. Sanjib Dey		1 st , 2 nd ,3 rd and 4 th month
			Application of Spectroscopy to Simple Organic Molecules	Sudip Maity	10	
	DSE1AP Organometallics, Bioinorganic Chemistry, Polynuclear hydrocarbons and UV, IR Spectroscopy	Practical: Section A: Inorganic Chemistry Section B: Organic Chemistry		Dr. Sabyasachi Khatua	12	1 st and2 nd 3 rd & 4 th month

	SEC3T	Pharmaceutical Chemistry	Drugs & Pharmaceuticals	Sudip Maity	8	
			Fermentation	Sudip Maity	4	1 st and2 nd 3 rd month
	SEC3P	Pharmaceutical Chemistry Practical	All	Sudip Maity	04	4 th and5 th mon th
Semester-6	DSE1BT	Industrial Chemicals and Environment	Industrial Gases&Inorganic Chemicals	Dr. Sabyasachi Khatua	6	1 st and2 nd month
			Energy & Environment&Biocat alysis	Dr. Sabyasachi Khatua	6	
			Industrial Metallurgy	Subhajit Das	4	3 rd month
			Environmen t and its segments	Dr. Sanjib Dey	8	2 nd ,3 rd and 4 th month
	DSE1BP	Industrial Chemicals and Environment Lab	-	Dr. Sabyasachi Khatua		1 st , 2 nd , 3 rd & 4 th month
					12	

	Pesticide Chemistry	All	Sudip Maity	8	1 st ,2 nd and 3 rd month
	Pesticide Chemistry	All		4	4 th month
	Lab		Sudip		
			Maity		