Yogoda Satsanga Palpara Mahavidyalaya

DEPARTMENTOF CHEMISTRY (General)

TEACHING PLANE Chemistry (General) (Session- 2018-19)

Semester	Paper	Unit/Module		Teacher	No. of	To be
					lectures	completed
Semester-1	DSC1AT	Inorgania	Atomic structure	Dr.		by 1 st month
Semester-1	DSCIAI	Inorganic Chemistry-1	Atomic structure	Sabyasachi		1 IIIOIIII
		onemiser, 1		Khatua	6	
			Chemical Bonding and	Dr. Sanjib Dey	6	and 1
			Molecular Structure			2 nd month
			Fundamentals of Organic Chemistry	Sudip Maity	4	1 st Month
			Stereochemistry	Sudip Maity	12	2 nd month, 3 rd month,
			Aliphatic Hydrocarbons			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 nd 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
			Separation of mixtures by Chromatography: Measure the Rf value in each case (combination of two compounds to be given)	Dr. Sabyasachi Khatua	4	4 th month
Semester-2	DSC1BT	Physical Chemistry-1	Chemical Energetic	Dr. Sabyasachi Khatua	6	1 st month
			Chemical Equilibrium	Dr. Sabyasachi Khatua	4	2 nd month

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

			Ethers (aliphatic and aromatic): Aldehydes and ketones (aliphatic and aromatic):	Sudip Maity	6	4 th month
	DSC1BP	Physical Chemistry Organic Chemistry	All	Dr. Sanjib Dey	16	1 st month 2 nd month 3 rd & 4 th month
Semester-3	DSC1CT	Physical Chemistry-2	Solutions	Dr. Sabyasachi Khatua	6	1 st month 2 nd month
			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	Distribution	Dr. Sabyasachi Khatua		1 st month 2 nd month
		Phase equilibria	Dr. Sabyasachi		3 rd
		G 1 .	Khatua	15	
		Conductance	Dr. Sabyasachi		
		Datantiamatur	Khatua		
		Potentiometry	Dr. Sabyasachi Khatua		
	Organic Chemistry	All	Dr. Sabyasachi		4 th month
	Lab		Khatua		
SEC1T	Basic Analytical	Introduction, Analysis		12	1 st ,2 nd , 3 rd
	Chemistry	of soil, Analysis of	Khatua		month
		water, Analysis of			
		food products,			
		Chromatography, Ion- exchange			
SEC1P	Basic Analytical	All	Dr. Sanjib Dey	8	3 rd , 4 th and 5 th
	Chemistry Lab				month

Semester-IV	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	Surface tension measurement	Dr. Sabyasachi Khatua		2 nd , 3 rd & 4 th month
		Viscosity measurement	Dr. Sabyasachi Khatua	15		
			Chemical Kinetics	Dr. Sabyasachi Khatua		

 SEC2T	Analytical	Basic	Sudip Maity	8	1 st , 2 nd month
	Clinical	understanding of			
	Biochemistry	the structures,			
		properties and			
		functions of			
		carbohydrates,			
		lipids and			
		proteins:			
		Biochemistry of	Dr.	4	3 rd month
		disease: A	Sabyasachi		
		diagnostic	Khatua		
		approach by blood/			
		urine analysis			
SEC2P	Analytical Clinical	Identification and	Dr. Sabyasachi		3 rd , 4 th and
	Biochemistry Lab	estimation	Khatua	8	5 th month
DSE1AT:		Qualitative and			1 st month
Analytical		quantitative aspects	Dr. Sabyasachi	4	
Methods in		of analysis	Khatua		
Chemistry					
		Optical methods of	Dr. Sabyasachi		2 nd month
		analysis	Khatua	6	
		Thermal methods of	Dr. Sabyasachi		3 rd month
		analysis	Khatua	6	
		Electroanalytical			4 th month
		methods	Dr. Sanjib Dey	4	
		Separation	7	T	3 rd , 4 th and 5 th
		techniques	Sudip Maity	10	month
DSE1AP:		Separation			1 st and 2 nd
Analytical		Techniques			month
Methods in			Sudip Maity	08	
61			1		

Chemistry (lab

	Solvent Extractions:	Dr. Sanjib Dey	04	3 rd month
	opeon opnotomen y	Dr. Sabyasachi Khatua	06	4 th and 5 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	Industrial Chemicals and Environment	Industrial Gases&Inorganic Chemicals	Dr. Sabyasachi Khatua	6	1 st and2 nd month
Environment	Environment		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	Industrial Chemicals and Environment Lab		Dr. Sabyasachi Khatua		1 st , 2 nd , 3 rd & 4 th month
					12	
	SEC4T	Pesticide Chemistry	All	Sudip Maity	8	1 st ,2 nd and 3 rd

Pesticide Chemistry All Lab

SEC4P

month 4th month

4

Sudip Maity