SIDDHINATH MHAVIDYALAYA

DEPERTMENT OF CHEMISTRY

TEACHING PLAN -2021-2022

TEACHING PLAN OF SEMESTER - III PAPER DSC – 1C(CC-3): Solutions, Phase equilibrium, Conductance, Electrochemistry &

	Functional Organic Cl	nemistry		
	MODULE	TEACHER	NO OF LECTURES	TO BE COMPLETED
Unit- I	Chemical Energetic		08	
Unit- II	Chemical Equilibrium		05	
Unit- III	lonic Equilibria		05	2 MONTHS
Unit- IV	Aromatic hydrocarbons		05	
Unit- V	Alkyl and Aryl Halides		04	
Unit- VI	Alcohols, Phenols and Ethers		12	
Unit- VII				
Unit- VIII				
PAPER	DSC – 1B (P)			
Unit- I	Preparation of buffer solutions (Sodium acetate-acetic acid)			-
Unit- II	Purification of organic compounds by crystallization (from water and alcohol) and distillation.		09	2 MONTHS
Unit- III	Preparations: Mechanism of various reactions involved to be discussed. Recrystallisation, determination of melting point and calculation of quantitative yields to be done. (Bromination of Phenol/Aniline, Benzoylation of amines/phenols)			

	TEACHING PLAN OF SEMESTER	– IV (2019-2020	0)	
	PAPER DSC1DT: Coordination Chemistry, Stat	es of matter Ch	emical Kinetics	
	MODULE	TEACHER	NO OF	TO BE
			LECTURES	COMPLETED
Unit- I	Transition Elements (3d series)		04	
Unit- II	Coordination Chemistry		07	
Unit- III	Crystal Field Theory		05	2 MONTHS
Unit- IV	Kinetic Theory of Gases , Liquids & Solids		10	
Unit- V	Chemical Kinetics		08	
PAP	ER DSC1DP: Coordination Chemistry, States of Chemical Kinetics	matter &		
Unit- I				
	Semi-micro qualitative analysis using H2S of mixtures - not more than four ionic species (two anions and two cations and excluding insoluble salts) out of the following: Cations: NH4+, Pb2+, Ag2+, Bi3+, Cu2+, Cd2+, Sn2+, Fe3+, Al3+, Co2+, Cr3+, Ni2+, Mn2+, Zn2+, Ba2+, Sr2+, Ca2+, K+ Anions: CO3 2-, S2-, SO2-, S2O3 2-, NO3-, CH3COO-, Cl-, Br-, I-, NO3-, SO4 2-, PO4 3-, BO3 3-, C2O4 2-, F-		10	2 MONTHS
Unit- II	not more than four ionic species (two anions and two cations and excluding insoluble salts) out of the following: Cations: NH4+, Pb2+, Ag2+, Bi3+, Cu2+, Cd2+, Sn2+, Fe3+, Al3+, Co2+, Cr3+, Ni2+, Mn2+, Zn2+, Ba2+, Sr2+, Ca2+, K+ Anions: CO3 2-, S2-, SO2-, S2O3 2-, NO3-, CH3COO-, Cl-, Br-, l-, NO3		10 04	2 MONTHS