SIDDHINATH MHAVIDYALAYA

DEPERTMENT OF CHEMISTRY

TEACHING PLAN -2022-2023

	TEACHING PLAN OF SEM				
PAPER DSE2T: Green Chemistry					
	MODULE	TEACHER	NO OF	TO BE	
			LECTURES	COMPLETED	
Unit- I	Drugs & Pharmaceuticals: Drug discovery, design		16		
Unit- II	and development; Basic Retrosynthetic approach. Synthesis of the representative drugs of the following classes: analgesics agents, antipyretic agents, antiinflammatory agents (Aspirin, paracetamol, Ibuprofen); antibiotics (Chloramphenicol); antibacterial and antifungal agents (Sulphonamides; Sulphanethoxazol, Sulphacetamide, Trimethoprim); antiviral agents (Acyclovir), Central Nervous System agents (Phenobarbital, Diazepam), Cardiovascular (Glyceryl trinitrate), antilaprosy (Dapsone), HIV-AIDS related drugs (AZT- Zidovudine). Fermentation: Aerobic and anaerobic fermentation. Production of (i) Ethyl alcohol and citric acid, (ii) Antibiotics; Penicillin, Cephalosporin, Chloromycetin and Streptomycin, (iii) Lysine, Glutamic acid, Vitamin B2, Vitamin B12 and Vitamin C.	PARNAB DOLUI	06	2 MONTHS	
PAPER Unit- I Unit- II	SEC3P: Practical Preparation of Aspirin and its analysis. Preparation of magnesium bisilicate (Antacid).	PARNAB	06 08	1 MONTH	
		PARNAB DOLUI			

	TEACHING PLAN OF SEN			
	PAPER SEC3T: Pharmaceuti	cal Chemistry	T	1
	MODULE	TEACHER	NO OF LECTURES	TO BE
Unit- II	Drugs & Pharmaceuticals: Drug discovery, design and development; Basic Retrosynthetic approach. Synthesis of the representative drugs of the following classes: analgesics agents, antipyretic agents, antiinflammatory agents (Aspirin, paracetamol, Ibuprofen); antibiotics (Chloramphenicol); antibacterial and antifungal agents (Sulphonamides; Sulphanethoxazol, Sulphacetamide, Trimethoprim); antiviral agents (Acyclovir), Central Nervous System agents (Phenobarbital, Diazepam), Cardiovascular (Glyceryl trinitrate), antilaprosy (Dapsone), HIV-AIDS related drugs (AZT- Zidovudine). Fermentation: Aerobic and anaerobic fermentation. Production of (i) Ethyl alcohol and citric acid, (ii) Antibiotics; Penicillin, Cephalosporin, Chloromycetin and Streptomycin, (iii) Lysine, Glutamic acid, Vitamin B2, Vitamin B12 and Vitamin C.	PARNAB DOLUI	10	3 MONTHS
PAPER	SEC3P: Practical			_
Unit- I	Preparation of Aspirin and its analysis.		04	
Unit- II	Preparation of magnesium bisilicate (Antacid).	PARNAB DOLUI	04	

TEACHING PLAN OF SEMESTER VI (2020-2021)					
PAPER DSE-2T: INDUSTRIAL CHEMICALS AND ENVIRONMENT					
	MODULE	TEACHER	NO OF LECTURES	TO BE COMPLETED	
Unit-I	Industrial Gases and Inorganic Chemicals	PARNAB DOLUI	10		
Unit-II	Industrial Metallugy (General principles of Metallurgy)		6	2months	
Unit-III	Environment and its Segments		8		
Unit-IV	Energy and Environment		4		
Unit-V	Biocatalysis		3		
	PAPER DSE-2P: INDUSTRIAL CHEMICALS AND ENVIRONMENT				
Unit-I	Determination of Dissolved Oxygen in Water		2	2 months	
Unit-II	Determination of Chemical Oxygen Demand (COD)		3		
Unit-III	Determination of Biological Oxygen Demand (BOD)		3		
Unit-IV	Percentage of available chlorine in Bleaching Powder	PARNAB	2		
Unit-V	Measurement of choride, Sulphate and Salinity of water Sample by Simple	DOLUI	4	1months	
	Titration Method (AgNO₃ and Potassium Chromate)				
Unit-VI	Prepration of Borax /Boric Acid		2		

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TEACHING PLAN OF SEMESTER VI (2022-2023)						
PAPER DSE-2T: INDUSTRIAL CHEMICALS AND ENVIRONMENT						
	MODULE	TEACHER	NO OF	TO BE		
			LECTURES	COMPLETED		
Unit-I	Industrial Gases and Inorganic		10			
	Chemicals					
Unit-II	Industrial Metallugy (General	PARNAB	6	2months		
	principles of Metallurgy)	DOLUI				
Unit-III	Environment and its Segments		8			
Unit-IV	Energy and Environment		4			
Unit-V	Biocatalysis		3			
	PAPER DSE-2P: INDUSTRIAL CHEMICALS AND ENVIRONMENT					
Unit-I	Determination of Dissolved		2	2 mantha		
	Oxygen in Water	-		2 months		
Unit-II	Determination of Chemical		3			
	Oxygen Demand (COD)					
Unit-III	Determination of Biological		3			
	Oxygen Demand (BOD)					
Unit-IV	Percentage of available		2			
	chlorine in Bleaching Powder	PARNAB				
Unit-V	Measurement of	DOLUI	4			
	choride,Sulphate and Salinity					
	of water Sample by Simple			1months		
	Titration Method (AgNO₃ and					
	Potassium Chromate)					
Unit-VI	Prepration of Borax /Boric Acid		2			