

# SIDDHINATH MAHAVIDYALAYA

## DEPARTMENT OF CHEMISTRY

### TEACHING PLAN -2023-2024

TEACHING PLAN OF SEMESTER – I (2023-2024)				
PAPER Minor1 Atomic Structure, acids and bases, redox reaction & states of matter				
	MODULE	TEACHER	NO OF LECTURES	TO BE COMPLETED
Unit- I	Atomic Structure	P.D	07	2 MONTHS
Unit- II	Acids and Bases		06	
Unit- III	Redox reaction		07	
Unit- IV	Kinetic Theory of Gases & Real gases		06	
Unit- V	Liquid & Solids		10	
<b>PAPER Minor1 (P)</b>				
Unit- I	Estimation of oxalic acid by titrating it with $\text{KMnO}_4$ .	P.D	09	2 MONTHS
Unit- II	Estimation of Fe (II) ions by titrating it with $\text{K}_2\text{Cr}_2\text{O}_7$ using internal indicator.			
Unit- III	Estimation of Cu (II) ions iodometrically using $\text{Na}_2\text{S}_2\text{O}_3$ .			
Unit- IV	Surface tension measurement		05	
Unit-V	Viscosity measurement			

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### TEACHING PLAN -2023-2024

TEACHING PLAN OF SEMESTER – III (2023-2024)				
PAPER GE-3 Chemical energetic, chemical equilibrium, ionic equilibrium				
	MODULE	TEACHER	NO OF LECTURES	TO BE COMPLETED
Unit- I	Chemical Energetic	P.D	08	2 MONTHS
Unit- II	Chemical Equilibrium		05	
Unit- III	Ionic Equilibria		05	
Unit- IV	Aromatic hydrocarbons		05	
Unit- V	Alkyl and Aryl Halides		04	
Unit- VI	Alcohols, Phenols and Ethers		12	2 MONTHS
Unit- VII	Carbonyl Compounds			
PAPER GE-3P				
Unit- I	Preparation of buffer solutions & Find the pH of Unknown Solutions By (Sodium acetate-acetic acid )	P.D	09	2 MONTHS
Unit- II	Study of the Solubility of benzoic acid in water			
Unit- III	Identification of a pure organic compound			