**1ST YEAR BREAKDOWN** **CHEMISTRY**

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| NO: OF DAYS | DATE: | CHAPTERS |  TOPICS | HOME TASK |
| 01 | 15/01/2024 | Chapter# 12 | Introduction, Conductors, Electrolytes, Oxidation-Reduction Concepts, Oxidation State, Rules for Oxidation Number,Oxidizing and reducing agents |  |
| 02 | 16/01/2024 |  | Balancing by oxidation number method, Balancing by oxidation Half reaction method |  |
| 03 | 17/01/2024 |  | Electrode, Electrode potential, Cell Reaction and Cell Voltage, |  |
| 04 | 18/01/2024 |  | SHE, Measurment, Electrochemical series, Types of electrolytic cell |  |
| 05 | 19/01/2024 |  | Electrolysis of Aqueous NaCl, Advantages, Voltaic cell,Danial cell |  |
| 06 | 20/01/2024 |  | Faradays laws, primary and secondary Batteries |  |
| 07 | 21/01/2024 |  | Fuel cell, corrosion and prevention,electroplating,Galvanizing |  |
| 08 | 22/01/2024 |  | Exercise of chapter#12 |  |
| 09 | 23/01/2024 | Chapter# 11 | Introduction, Exo and Endothermic reactions,Thermodynamics, State and state functions |  |
| 10 | 24/01/2024 |  | Internal energy,First law of thermodynamics, Pressure-Volume work |  |
| 11 | 25/01/2024 |  | Standard state and enthalpy change, standard enthalpy of formation and combustion |  |
| 12 | 26/01/2024 |  | Standard enthalpy of neutralization, Heat capacity, Measurment |  |
| 13 | 27/01/2024 |  | Hess law, Born Haber cycle,Example11.5 |  |
| 14 | 28/01/2024 |  | Exercise of chapter#11 |  |
| 15 | 29/01/2024 | Chapter# 09 | Introduction,Chemical kinetics, Rate of reaction, Elementary reaction and rate determining step |  |
| 16 | 30/01/2024 |  | Rate law, specific rate constant, order of reaction,First, 2nd and 3rd order |  |
| 17 | 01/02/2024 |  | Role of rate constant, exp:9.4, 9.5 |  |
| 18 | 02/02/2024 |  | Factors effecting rate of reaction |  |
| 19 | 03/02/2024 |  | Activation energy and Transition state,Collision theory |  |
| 20 | 04/02/2024 |  | Characteristics of Catalysis and exercise |  |
| 21 | 05/02/2024 |  | EXAM |  |
| 22 | 06/02/2024 |  | EXAM |  |
| 23 | 07/02/2024 |  | EXAM |  |