PROGRESS REGISTER FOR THE ACADEMIC YEAR-2023-24						
DISCIPLIN	IE- CIVII E	NGG. SEME	SUBJECT-ENGG. CHE	EMISTRY		
			LTY-PRASANT BEHERA			
Sl.No.	MONTH	UNIT	Topic to be covered as per the Lesson Plan	Topic Actually Covered		
1		1	Chapter 1: Atomic structure Fundamental particles ( electron, proton & neutron Definition, mass and charge ).Rutherford's Atomic model (	Chapter 1: Atomic structure Fundamental particles ( electron, proton & neutron Definition, mass and charge ).Rutherford's Atomic model ( postulates and failure), Atomic mass and mass number.		
2		1	Definition, examples and properties of Isotopes, isobars and isotones. Bohr's Atomic model ( Postulates only)	Definition, examples and properties of Isotopes, isobars and isotones. Bohr's Atomic model ( Postulates only)		
3	FEBRUARY	1	Bohr-Bury scheme, Aufbau's principle,	Bohr-Bury scheme, Aufbau's principle,		
4		1	Hund's rule, Electronic configuration (up to atomic no 30),	Hund's rule, Electronic configuration (up to atomic no 30),		
5		2	Chapter 2 : Chemical Bonding : Definition , types ( Electrovalent, Covalent and Coordinate bond with examples	Chapter 2 : Chemical Bonding : Definition , types ( Electrovalent, Covalent and Coordinate bond with examples		
6		2	Types of bond with examples (formation of NaCl, MgCl2, H2,Cl2, O2, N2, H2O, CH4, NH3, NH4 + , SO2).	Types of bond with examples (formation of NaCl, MgCl2, H2,Cl2, O2, N2, H2O, CH4, NH3, NH4 + , SO2).		
7		3	Chapter 3: Acid base theory: Concept of Arrhenius theory for acid and base with examples ( Postulates and limitations only).	Chapter 3: Acid base theory: Concept of Arrhenius theory for acid and base with examples (Postulates and limitations only).		
8	March	3	Hund's rule, Electronic configuration (up to atomic no 30)	Hund's rule, Electronic configuration (up to atomic no 30)		
9		3	Lowry Bronsted theory for acid and base with examples ( Postulates and limitations only)	Lowry Bronsted theory for acid and base with examples (Postulates and limitations only)		
10		3	Lewis theory for acid and base with examples	Lewis theory for acid and base with examples		

11		3	Neutralization of acid & base. Definition of Salt, Types of salts ( Normal, acidic, basic, double, complex and mixed salts, definitions with 2 examples ).	Neutralization of acid & base. Definition of Salt, Types of salts (Normal, acidic, basic, double, complex and mixed salts, definitions with 2 examples).
12		4	Chapter 4: Solutions: Definitions of atomic weight, molecular weight, Equivalent weight.	Chapter 4: Solutions: Definitions of atomic weight, molecular weight, Equivalent weight.
13		4	Determination of equivalent weight of Acid, Base and Salt.	Determination of equivalent weight of Acid, Base and Salt.
14		4	Modes of expression of the concentrations Molarity with Simple Problems	Modes of expression of the concentrations Molarity with Simple Problems
15		4	Modes of expression of the concentrations Normality & molality with Simple Problems	Modes of expression of the concentrations Normality & molality with Simple Problems
16	APRIL	4	pH of solution ( definition with simple numericals ),Importance of pH in industry ( sugar, textile, paper industries only)	pH of solution ( definition with simple numericals ),Importance of pH in industry ( sugar, textile, paper industries only)
17		5	Chapter 5: Electrochemistry: Definition and types (Strong & weak) of Electrolytes with example.	Chapter 5 : Electrochemistry : Definition and types ( Strong & weak) of Electrolytes with example.
18		5	Electrolysis ( Principle & process) with example of NaCl (fused and aqueous solution).	Electrolysis ( Principle & process) with example of NaCl (fused and aqueous solution).
19		5	Faraday's 1st law of Electrolysis ( Statement, mathematical expression and Simple numerical)	Faraday's 1st law of Electrolysis ( Statement, mathematical expression and Simple numerical)
20		5	Faraday's 2nd law of Electrolysis (Statement, mathematical expression and Simple numerical)	Faraday's 2nd law of Electrolysis ( Statement, mathematical expression and Simple numerical)
21	MAY	5	Industrial application of Electrolysis- Electroplating ( Zinc only)	Industrial application of Electrolysis- Electroplating ( Zinc only)

22	6	-	Chapter 6 : Corrosion: Definition of Corrosion, Types of Corrosion- Atmospheric Corrosion
23	6	Waterline corrosion	Waterline corrosion