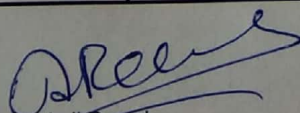
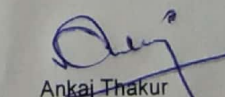


LESSON PLAN

Name of Faculty		Mrs. Ankaj Thakur
Department		Applied Science & Humanities
Semester		2nd
Subject		Environmental Science
Lesson Plan for the Duration		22 Feb, 2023 to 15 June, 2023
Week		Theory
1st (22-28 Feb 2023)	Topics	Structure of Ecosystem, Biotic & Abiotic components, Food Chain & Food Web, Aquatic & Terrestrial Ecosystem.
2nd (01-07 March 2023)	Topics	Carbon, Nitrogen, Phosphorus cycle, Global Warming-Causes, Effects, Process, GreenHouse Effect, Ozone Depletion.
3rd (09-16 March 2023)	Topics	Pollution & Pollutants, Natural & Manmade Sources of Air Pollution, Air Pollutants, Types, Particulate Pollutants, Effects & Control.
4th (17-23 March 2023)	Topics	Gaseous Pollution Control, Absorber, Catalytic Converter, Effects of Air Pollution due to Refrigerants.
5th (24-31 March 2023)	Topics	Noise Pollution, Sources of Pollution, Measurement of Pollution Levels, Effects of Noise Pollution, Noise Pollution Rules 2000.
6th (01-10 April 2023)	Topics	Sources of Water Pollution, Types of Water Pollutants, Characteristics of Water Pollutants, Turbidity, Ph, Total suspended solids, Total Solids BOD & COD.
7th (11-19 April 2023)	Topics	Waste Water Treatment, Primary Methods: Sedimentation, froath Floating, Secondary Methods: Active Sludge Treatment, Trickling Filter, Bioreactor, Tertiary Methods: Membrane Separation Technology, Reverse Osmosis.
8th (20-27 April 2023)	Topics	Causes, Effects & Preventive measures of Soil Pollution, Cause, Excessive use of fertilizers, Pesticides, Insecticides, Irrigation, E-Waste.
9th (28 April-04 May 2023)	Topics	Solar Energy: Basics of solar Energy, Flate Plate Collector, Theory of Flate Plate Collector, Importance of coating, Advanced Collector, Solar Pond, Solar Water Heater, Solar Dryer, Solar Stills.
10th (06-11 May, 2023)	Topics	Biomass: Biomass as energy source, Thermal Characteristics of biomass as fuel, Anaerobic Digestion, Biomass Production Mechanism, Utilization & Storage of Biomass.
11th (12-19 May 2023)	Topics	Wind Energy: Current Status & Future Prospectus of Wind Energy, Wind energy in India, Environmental Benefits & Problems of Wind Energy
12th (20-26 May 2023)	Topics	New Energy Sources, Need of New Sources, Different types of Energy Sources, Applications of Hydrogen Energy, Ocean Energy, Tidal Energy Conversion, Geo Thermal Energy.
13th (27 May-02 June 2023)	Topics	Solid Waste Generation-Sources & Characteristics of Municipal solid waste, E-Waste, Bio- Mrdical Waste, Mettalic Waste, Non Metallic Waste from Industries.
14th (03-09 June 2023)	Topics	Collection & Disposal: MSW(3R, Principal, energy recovery, sanitary landfill, Hazardous, Waste Water Quality Act 2004, Air Pollution control act 1981, Water Pollution Act 1996, Structure & Role of Central & State Pollution Control Board.
15th (12-15 June 2023)	Topics	Concept of Carbon Credit, Carbon Footprint, Environmental ,anagment in Fabrication Industry, ISO14000: Implementatgion in Industries, Benefits.


Anil Rewal
HOD(AS&H)


Ankaj Thakur
Lecturer Chemistry