

LESSON PLAN

Discipline / All Branches		Semester-1st	Name of the teaching faculty:- Kishan Kumar Agrawal
Subject:- EVS	Unit/ Chapter	No. of days/per week- 04	Semester from date : 16.08.2024 to 11.12.2024 No. of weeks :- 15 (excluding puja vacation)
Week		Class day	Theory
1st	Unit-1	1st	Introduction of ecosystem and its components (Biotic and Abiotic), structure of ecosystem, food chain, food web and its schematics diagram with example.
	Unit-1	2nd	Recap about the ecosystem and types of ecosystem (aquatic and terrestrial), various types of aquatic ecosystem (lentic & lotic)
	Unit-1	3rd	introduction of carbon, nitrogen sulphur and phosphorus cycle.
	Unit-1	4th	Briefly about carbon cycle with flow chart
2nd	Unit-1	1st	Briefly about nitrogen cycle with flow chart
	Unit-1	2nd	Briefly about phosphorus cycle with flow chart.
	Unit-1	3rd	Briefly about sulphur cycle with flow chart.
	Unit-1	4th	Recap about global warming and green house gas effect (causes, control or mitigation strategies)
3rd	Unit-1	1st	Ozone layer depletion (causes, effect).
	Unit-2	2nd	Definition of pollution and pollutants, natural & man-made sources of air pollution (refrigerants, I.C. boilers)
	Unit-2	3rd	Air pollutants: types, particulate matter and pollutants with examples and its effects. Control methods: bag filters, cyclone
	Unit-2	4th	Briefly about the control methods: (bag filters, cyclone separators, electrostatic precipitator).
4th	Unit-2	1st	Recap about the control measures of air pollution and introduction of gaseous pollution control.
	Unit-2	2nd	Gaseous pollution control (absorber, packed bed absorber, catalytic converter)
	Unit-2	3rd	I.C. refrigerants, boilers and introduction of noise pollution (definition and short note on it).
	Unit-2	4th	Sources and measures of noise pollution & its effect. Regulation and control of noise pollution
5th	Unit-3	1st	Introduction and Solar Energy
	Unit-3	2nd	Flat Plate Collector (Liquid & Air)
	Unit-3	3rd	Theory of flat plate collector
	Unit-3	4th	Importance of coating and advanced collector, solar pond
6th	Unit-3	1st	Biomass
	Unit-3	2nd	Biogas production mechanism
	Unit-3	3rd	Wind Energy
	Unit-3	4th	Wind Energy
	Unit-3	1st	Wind Energy in India
	Unit-3	2nd	New energy resources and need of that resources (hydrogen energy, ocean energy, tidal energy)

7th	Unit-4	3rd	Solid waste management system
	Unit-4	4th	metallic waste and non- metallic waste(lubricants ,plastics ,rubber) from industries and sources.
8th	Unit-4	1st	Collection and disposal :MSW (3R) reuse, recycle, reduce and its principles.
	Unit-4	2nd	Collection and disposal :MSW (3R) reuse, recycle, reduce and its principles.
	Unit-4	3rd	Disposal of Municipal Solid Waste
	Unit-4	4th	Disposal of Municipal Solid Waste
9th	Unit-4	1st	3R Principles
	Unit-4	2nd	3R Principles
	Unit-4	3rd	Energy recovery, sanitary landfill (causes and sources)
	Unit-4	4th	Hazardous Waste
10th	Unit-4	1st	Air quality act 2004
	Unit-4	2nd	Air Popllution Control Act 1981
	Unit-4	3rd	The Water(Prevention and Control of Pollution) act 1974
	Unit-4	4th	Structure and role of central and state pollution control board
11th	Unit-4	1st	Functions of Central Board at National Level
	Unit-4	2nd	Structure and role of central and state pollution control board
	Unit-4	3rd	Functions of Central Board as State Board for the Union Territories
	Unit-4	4th	Carbon Footprint and Carbon Credit
12th	Unit-4	1st	Carbon Footprint and Carbon Credit
	Unit-4	2nd	Environmental management in fabrication industry
	Unit-4	3rd	Environmental management in fabrication industry
	Unit-4	4th	Environmental management in fabrication industry
13th	Unit-4	1st	ISO 14000
	Unit-4	2nd	ISO 14000
	Unit-4	3rd	Air pollution control act 1981
	Unit-4	4th	Water pollution and control act
14th	Unit-4	1st	Structure and role of central and state pollution control board
	Unit-4	2nd	Concept of carbon credit (need)
	Unit-4	3rd	carbon footprint.
	Unit-4	4th	Environmental management in fabrication industry
15th	Unit-4	1st	ISO 14000
	Unit-4	2nd	Revision

Unit-4	3rd	Revision
Unit-4	4th	Revision

Signature of the Faculty

Signature of the HOD