Discipline: Environmental Science		Semester-1 Winter 2025	Faculty	
SI. No	Subject: Environmental Science	No. Of classes per week in a section:4	AMRUTENDU PATI Semester From date: 06.08.2025 To date: 06.12.2025 No of weeks: 18	X
Kar b	Week	Class Day	Topic	Periods
	1st week	1st	Chapter 1: Ecosystem (Structure Ecosystem, Biotic and Abiotic Component, Food Chain, Food Web	1.
1		2nd	Types of Ferry (A matic Terrostrial Ecosysytem)	1
		3rd	Types of Ecosystem (Aquatic, Terrestrial Ecosysytem) Carbon Cycle	1
		4th	Nitrogen Cycle	<u>i</u>
	200 pg - 1870 pg - 1	1st		1
		2nd	Sulfur Cycle, Phosphorus Cycle	1
_	2nd Week	3rd	Global Warming (Cause, Effect, Process)	1
2		4th	Green House Effect, Ozone layer Depletion Chapter-2: Air Pollution Definition of pollution and pollutant, Natural and man made sources of air pollution	1
	3rd Week	1st	Types, Particulate Pollutants: Effects and control (Bag filter)	1
3		2nd	Cyclone separator	1
	ord week	3rd	Electrostatic Precipitator	1
	-7 33.21 7 5477	4th	Gaseous Pollution Control: Absorber, Catalytic Converter,	1
	4th Week	lst	Effects of air pollution due to Refrigirants, I.C and Boiler	1
		2nd	Noise pollution: sources of pollution, measurement of pollution level, Effects of Noise pollution, Noise pollution (Regulation and Control) Rules, 2000	1
4		3rd	Chapter-3 (Water Pollution and Soil Pollution) Sources of water pollution, Types of water pollutants	1
		4th	Characteristics of water PollutantsTurbidity, pH, total suspended solids, total solids	1
	作 机工作 电流压力	1st	BOD and COD: Definition and calculation	1
	5th week	2nd	Waste Water Treatment: Primary methods: sedimentation, froth floatation,	1
5		3rd	Secondary methods:Activatedsludge treatment,Trickling filter	1

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		4th		
6	6th Week		Bioreactor, TertiaryMethod	
			Holiday	
		1st	Membrane separation technology RO (reverse osmosis)	1
7	7th Week	2nd		1
		3rd		
		310	Pesticides and Insecticides, Irrigation, E-Waste.	1
_		4th	Chapter-4 (Renewable source of Energy) Solar Energy:	1
	8th Week	1st		1
8		2nd	Theory of Flat Plate Collector, Importance Of Coating,	1
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	21	Advanced Collector	
	The state of the s	3rd	Solar pond, Solar water heater	1
	1	4th	solar dryer, Solar stills.	1
		1st	Biomass: Overview of biomass as energy source.	1
9	9th Week	2nd	Thermal characteristics of biomass as fuel. Anaerobic	1
9		3rd	Biogas production mechanism. Utilization and storage of	1
		4th		
				1
	10th Week	lst		1
		130		
10		2nd		1
		Week Biogas production mechanism. Utilization and storage of biogas. Wind energy: Current status and future prospects of wind energy. Wind energy in India Ist Environmental benefits and problem of wind energy. New Energy Sources: Need of new sources. Different types new energy sources. 3rd Applications of Hydrogen energy 4th Ocean energy resources, Tidal energy conversion Ist Concept, origin and power plants of geothermal energy Solid waste generation- Sources and characteristics of: Municipal solid waste	1	
	w _i , i	4th	Ocean energy resources, Tidal energy conversion	1
	the state of the s	1st	Concept, origin and power plants of geothermal energy	1
		2nd	1 / 1/94	1
11	11th Week	3rd	Membrane separation technology,RO (reverse osmosis) Causes, Effects and Preventive measures of Soil Pollution:	1
	, i way	4th		1
		1st		1
	12th week	2nd		<u>1</u>
12		3rd		1
12		4th	Air pollution control act 1981 and water pollution and	1
î e,				
	i de la companya de l	1 st	board.	1
13	13th week	2nd	Concept of Carbon Credit, Carbon Footprint.	1

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	Lan.	3rd	- industry	1
	H. A.	4th	Environmental management in fabrication industry	1
		1st	ISO14000: Implementation in industries, Benefits	1
14	14th week	2nd	Revision	
	14th Week	3rd	Revision	1
		4th	Revision	1
	15 th week	1st	Revision	
15		2nd	Revision	+ - :
13		3rd	Revision	
		4th	Revision #	1
	Au X ·	411	Revision	1
16	16 th week	1st		1
		2 nd	Previous year Question Discussion	1
		3 rd	Previous year Question Discussion	+i
	4	4 th	Previous year Question Discussion	$\frac{1}{1}$
17	17 th week	1 st	Previous year Question Discussion Doubt clearing class	1
1 /		2 nd	Doubt clearing class	1
		3 rd	Doubt clearing class	1
		4 th	Doubt clearing class	1
18	18 th week	1st	Class Test	1
	7 17			2
		2 nd	Class Test	1
		3 rd	Class Test	1.
		4 th	Class Test	1

Amoutende Pati

Sign. of Faculty

Sign. of Sr. Lect.

Math & Science 3.I.E.T (Poly), Jagatpur, Cto Sign of Principal Principal

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JET (Felytechnic, Jagatpur, Cuttack