ACADEMIC LESSON PLAN OF WINTER 2022

	·	EMIC LESSON PLAN OF WINTER 2022
Discipline:	Semester:	Name of the Teaching Faculty: Lucky Rani Behuria
ELECTRICA	3 rd sem (Sec-	
L	A)	
Subject:	No. of	Semester From: 15 th Sept 2021 to 22 nd Dec 2022
Environme	days/per week	No. of weeks:15 weeks
ntal	class	
Studies	allotted:4p/w	
	eek	
Week	Class Day	Theory Topics
	1 st	1.1 Definition, scope and importance.
1 st	2 nd	1.2 Need for public awareness.
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	3 rd	2.1 Natural resources and associated problems.
	4 th	2.1.1. Forest resources: Use and over-exploitation, deforestation, case studies,
		Timber extraction mining, dams and their effects on forests and tribal people.
	1 st	2.1.2. Water resources: Use and over-utilization of surface and ground water,
		floods, drought, conflicts over water, dam's benefits and problems.
	2 nd	2.1.3. Mineral Resources: Use and exploitation, environmental effects of
		extracting and using mineral resources.
2 nd	3 rd	2.1.4. Food Resources: World food problems, changes caused by agriculture and
		over grazing, effects of modern agriculture, fertilizers- pesticides problems, water
	4 th	logging, salinity.
	4	2.1.5. Energy Resources: Growing energy need, renewable and non-renewable
	- ct	energy sources, use of alternate energy sources, case studies.
	1 st	2.1.6. Land Resources: Land as a resource, land degradation, man induces
		landslides, soil erosion, and desertification. 2.2 Role of individual in conservation
3 rd		of natural resources.
	2 nd	2.2 Role of individual in conservation of natural resources.
	3 rd	2.3 Equitable use of resources for sustainable life styles.
	4 th	3.1. Concept of an eco system.
	1 st	3.2. Structure and function of an eco system.
1		3.3. Producers, consumers, decomposers.
	2 nd	3.4. Energy flow in the eco systems.
4 th	3 rd	3.5. Ecological succession.
		3.6. Food chains, food webs and ecological pyramids.
	4 th	3.7. Introduction, types, characteristic features, structure and function of the
	T	following eco system
	1 st	3.8. Forest ecosystem.
_+b	2 nd	,
5 th		3.9. Aquatic eco systems (ponds, streams, lakes, rivers, oceans)
	3 rd	4.1. Introduction-Definition: genetics, species and ecosystem diversity.
	4 th	4.2. Biogeographically classification of India.
	1 st	4.3. Value of biodiversity: consumptive use, productive use, social ethical,
6 th		aesthetic and optin values.
	2 nd	4.4. Biodiversity at global, national and local level. (Conti)
	3 rd	4.4. Biodiversity at global, national and local level.
	4 th	4.5. Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife
		conflicts.
7 th	1 st	5.1. Definition Causes, effects and control measures.
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	2 nd	5.1.1 Air pollution.
	3 rd	5.1.2 Water pollution.
-	4 th	5.1.3 Soil pollution
	1 st	5.1.4 Marine pollution.
8 th	2 nd	5.1.5 Noise pollution.
-	3 rd	5.1.6 Thermal pollution.
	4 th	5.1.7 Nuclear hazards.
	1 st	5.2. Solid waste Management: Causes, effects and control measures of urban and
		industrial wastes. (Conti)
9 th	2 nd	5.2. Solid waste Management: Causes, effects and control measures of urban and
		industrial wastes.
	3 rd	5.3. Role of an individual in prevention of pollution.
	4 th	5.4. Disaster management: Floods, earth quake, cyclone and landslides.
	1 st	6.1. Form unsustainable to sustainable development.
10 th	2 nd	6.2. Urban problems related to energy.
	3 rd	6.3. Water conservation, rain water harvesting, water shed management.
	4 th	6.4. Resettlement and rehabilitation of people; its problems and concern.
	1 st	6.5. Environmental ethics: issue and possible solutions.
	2 nd	6.6. Climate change, global warming, acid rain, ozone layer depletion, nuclear
11 th		accidents and holocaust, case studies. (Conti)
	3 rd	6.6. Climate change, global warming, acid rain, ozone layer depletion, nuclear
		accidents and holocaust, case studies.
	4 th	6.7. Air (prevention and control of pollution) Act.
	1 st	6.8. Water (prevention and control of pollution) Act.
12 th	2 nd	6.9. Public awareness.
	3 rd	7.1. Population growth and variation among nations. (Conti)
	4 th	7.1. Population growth and variation among nations.
	1 st	7.2. Population explosion- family welfare program.
13 th	2 nd	7.3. Environment and human health. (Conti)
	3 rd	7.3. Environment and human health.
	4 th	7.4. Human rights.
	1 st	7.5. Value education
14 th	2 nd	7.6. Role of information technology in environment and human health. (Conti)
	3 rd	7.6. Role of information technology in environment and human health.
	4 th	Discussion about population explosion effects on environment

Lucky Pani Behneia

Signature of Teaching Faculty

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Discipline: ELECTRICA	Semester: 3 rd sem (Sec-B)	Name of the Teaching Faculty: Lipipuspa Behera
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