ACADEMIC LESSON PLAN OF WINTER 2023

Discipline: ELECTRICAL	Semester: 3 rd sem (Sec-B)	Name of the Teaching Faculty: LUCKY RANI BEHURIA
	5 Selli (Sec-D)	
Subject:	No. of days/per	Semester From: 1 st Aug 2023 to 30 th Nov 2023
Environmen	week class	No. of weeks:17 weeks
tal Studies	allotted:4p/wee	
	k	
Week	Class Day	Theory Topics
	1 st	1. The Multidisciplinary nature of environmental studies:
		1.1 Definition, scope and importance.
1 st	2 nd	1.2 Need for public awareness.
	3 rd	1.2 Need for public awareness.(contd.)
	4 th	2.1 Natural resources and associated problems.
	1 st	2.1 Natural resources and associated problems.
	1	2.1.1. Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction
		mining, dams and their effects on forests and tribal people.
	2 nd	2.1.2. Water resources: Use and over-utilization of surface and ground water, floods, drought,
2 nd	-	conflicts over water, dam's benefits and problems.
	3 rd	2.1.2. Water resources: Use and over-utilization of surface and ground water, floods, drought,
		conflicts over water, dam's benefits and problems(contd.)
	4 th	2.1.3. Mineral Resources: Use and exploitation, environmental effects of extracting and using
		mineral resources.
	1 st	2.1.4. Food Resources: World food problems, changes caused by agriculture and over grazing,
		effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity.
	2 nd	2.1.4. Food Resources: World food problems, changes caused by agriculture and over grazing,
3 rd		effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity.(contd.)
	3 rd	2.1.5. Energy Resources: Growing energy need, renewable and non-renewable energy sources, use
		of alternate energy sources, case studies.
	4 th	2.1.6. Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion,
	1 st	and desertification. 2.2 Role of individual in conservation of natural resources.
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4 th	2 nd	2.3 Equitable use of resources for sustainable life styles.
	3 rd	3.1. Concept of an eco system.
	4 th	3.2. Structure and function of an eco system.
		3.3. Producers, consumers, decomposers.
	1 st	3.4. Energy flow in the eco systems.
5 th	2 nd	3.5. Ecological succession.
.	and	3.6. Food chains, food webs and ecological pyramids.
	3 rd	3.7. Introduction, types, characteristic features, structure and function of the following eco system
	4 th	3.8. Forest ecosystem.
	1 st	3.9. Aquatic eco systems (ponds, streams, lakes, rivers, oceans)
6 th	2 nd	4.1. Introduction-Definition: genetics, species and ecosystem diversity.
	3 rd	4.2. Biogeographically classification of India.
	4 th	4.3. Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and optin
		values.
	1 st	4.4. Biodiversity at global, national and local level. (Conti)
7 th	2 nd	4.4. Biodiversity at global, national and local level.
70	 3 rd	4.5. Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.
	4 th	5.1. Definition Causes, effects and control measures.
8 th	1 st	5.1.1 Air pollution.
	2 nd	5.1.2 Water pollution.
	3 rd	5.1.3 Soil pollution
	4 th	5.1.4 Marine pollution.

9 th -	1 st	5.1.5 Noise pollution.
	2 nd	5.1.6 Thermal pollution.
	3 rd	5.1.7 Nuclear hazards.
	4 th	5.2. Solid waste Management: Causes, effects and control measures of urban and industrial wastes. (Conti)
	1 st	5.2. Solid waste Management: Causes, effects and control measures of urban and industrial wastes.
10 th	2 nd	5.3. Role of an individual in prevention of pollution.
	3 rd	5.4. Disaster management: Floods, earth quake, cyclone and landslides.
	4 th	6.1. Form unsustainable to sustainable development.
	1 st	6.2. Urban problems related to energy.
11 th	2 nd	6.3. Water conservation, rain water harvesting, water shed management.
	3 rd	6.4. Resettlement and rehabilitation of people; its problems and concern.
	4 th	6.5. Environmental ethics: issue and possible solutions.
	1 st	6.6. Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies. (Conti)
12 th	2 nd	6.6. Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies.
F	3 rd	6.7. Air (prevention and control of pollution) Act.
	4 th	6.8. Water (prevention and control of pollution) Act.
	1 st	6.9. Public awareness.
13 th	2 nd	7.1. Population growth and variation among nations. (Conti)
	3 rd	7.1. Population growth and variation among nations.
F	4 th	7.2. Population explosion- family welfare program.
	1 st	7.3. Environment and human health. (Conti)
14 th	2 nd	7.3. Environment and human health.
	3 rd	7.4. Human rights.
F	4 th	7.5. Value education
	1 st	7.6. Role of information technology in environment and human health. (Conti)
15 th	2 nd	7.6. Role of information technology in environment and human health.
	3 rd	7.7 Discussion about population explosion effects on environment
-	4 th	7.7 Discussion about population explosion effects on environment(Conti)
	1 st	Revision
F	2 nd	Revision
16 th	3 rd	Revision
-	4 th	Revision
	1 st	Revision
17 th	2 nd	Revision
	3 rd	Revision
F	4 th	Revision

Lucky Pani Belineia

Signature of Teaching Faculty

ACADEMIC LESSON PLAN OF WINTER 2023

		ACADEINIC LESSON FLAN OF WINTEN 2025
Discipline: ELECTRICAL	Semester: 3 rd sem (Sec-A)	Name of the Teaching Faculty: Lucky Rani Behuria
Subject:	No. of days/per	Semester From: 1 st Aug 2023 to 30 th Nov 2023
Environment	week class	No. of weeks:17 weeks
al Studies	allotted:4p/week	
Week	Class Day	Theory Topics
		1. The Multidisciplinary nature of environmental studies:
. ct		1.1 Definition, scope and importance.
1 st	2 nd	1.2 Need for public awareness.
	3 rd	1.2 Need for public awareness.(contd.)
	4 th	2.1 Natural resources and associated problems.
	1 st	2.1 Natural resources and associated problems.
		2.1.1. Forest resources: Use and over-exploitation, deforestation, case studies,
		Timber extraction mining, dams and their effects on forests and tribal people.
	2 nd	2.1.2. Water resources: Use and over-utilization of surface and ground water,
2 nd		floods, drought, conflicts over water, dam's benefits and problems.
	3 rd	2.1.2. Water resources: Use and over-utilization of surface and ground water,
		floods, drought, conflicts over water, dam's benefits and problems(contd.)
	4 th	2.1.3. Mineral Resources: Use and exploitation, environmental effects of extracting
		and using mineral resources.
		2.1.4. Food Resources: World food problems, changes caused by agriculture and
		over grazing, effects of modern agriculture, fertilizers- pesticides problems, water
		logging, salinity.
	2 nd	2.1.4. Food Resources: World food problems, changes caused by agriculture and
3 rd		over grazing, effects of modern agriculture, fertilizers- pesticides problems, water
5		logging, salinity.(contd.)
	3 rd	2.1.5. Energy Resources: Growing energy need, renewable and non-renewable
	-	energy sources, use of alternate energy sources, case studies.
	4 th	2.1.6. Land Resources: Land as a resource, land degradation, man induces
	-	landslides, soil erosion, and desertification.
	1 st	2.2 Role of individual in conservation of natural resources.
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4 th		2.3 Equitable use of resources for sustainable life styles.
	-	3.1. Concept of an eco system.
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	2 nd	3.4. Energy flow in the eco systems.
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		following eco system
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	4 th	5.2. Solid waste Management: Causes, effects and control measures of urban and
		industrial wastes. (Conti)
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	1 st	6.6. Climate change, global warming, acid rain, ozone layer depletion, nuclear
	T	accidents and holocaust, case studies. (Conti)
12 th	2 nd	6.6. Climate change, global warming, acid rain, ozone layer depletion, nuclear
12	2	accidents and holocaust, case studies.
	3 rd	
		6.7. Air (prevention and control of pollution) Act.
	4 1 st	6.8. Water (prevention and control of pollution) Act.
1 oth	2 nd	6.9. Public awareness.
13 th	2 * 3 rd	7.1. Population growth and variation among nations. (Conti)
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