UTKAL GOURAV MADHUSUDAN INSTITUTE OF TECHNOLOGY, RAYAGADA Academic Lesson Plan for Winter Semester- 2022

Name of the Teaching Faculty: Er. Saroj Kumar Sahu

Semester: 3rd

No. of Periods per Week: 4 End Semester Exam: 80 Total Marks: 100 Department: Mechanical Engineering Subject: ENVIRONMENTAL STUDIES

Total Periods: 60 Class Test: 20 Theory – 5

SI. No.	Week	Period	Topic to be covered
1.	1 st	1 st	Definition, scope and importance
2.		2 nd	Need for public awareness
3.		3 rd	Do
4.		4 th	About Renewable and non renewable resources
5.	2 nd	1 st	Do
6.		2 nd	Natural resources and associated problems
7.		3 rd	Do
8.		4 th	Do
9.		1 st	Do
10.	3 rd	2 nd	Do
11.	3	3 rd	Role of individual in conservation of natural resources
12.		4 th	Do
13.		1 st	Equitable use of resources for sustainable lifestyles.
14.	4 th	2 nd	Concept of an ecosystem.
15.	4	3 rd	Structure and function of an ecosystem.
16.		4 th	Producers, consumers, decomposers.
17.	5 th	1 st	Energy flow in the ecosystems.
18.		2 nd	Ecological succession.
19.		3 rd	Food chains, food web sand ecological pyramids.
20.		4 th	Introduction, types, characteristic features,
21.	6 th	1 st	structure and function of the Forest ,Aquatic ecosystems.
22.		2 nd	Introduction-Definition: genetics,
23.		3 rd	species and ecosystem diversity.
24.		4 th	Biogeographically classification of India.
25.	7 th	1 st	Value of biodiversity: consumptive use,
26.		2 nd	productive use, social ethical, aesthetic and opt in values.
27.		3 rd	Biodiversity at global, national and local level.
28.		4 th	Threats to biodiversity: Habitats loss,
29.		1 st	poaching of wild life, man wildlife conflicts.
30.	8 th	2 nd	About Environmental Pollution
31.		3 rd	Air pollution.
32.		4 th	Water pollution.
33.	9 th	1 st	Soil pollution
34.		2 nd	Marine pollution

35.		3 rd	Noise pollution.
36.		4 th	Thermal pollution
37.	10 th	1 st	Nuclear hazards.
38.		2 nd	Solid waste Management
39.		3 rd	Do
40.		4 th	Role of an individual in prevention of pollution.
41.	11 th	1 st	Disaster management
42.		2 nd	Urban problems related to energy.
43.		3 rd	Water conservation, rain water harvesting,
44.		4 th	water shed management.
45.		1 st	Resettlement and rehabilitation of people
46.	12 th	2 nd	Environmental ethics: issue and possible solutions.
47.		3 rd	Climate change, global warming, acid rain, ozone layer
48.		4 th	depletion, nuclear accidents and holocaust, case studies.
49.	13 th	1 st	Air (prevention and control of pollution) Act.
50.		2 nd	Water (prevention and control of pollution) Act.
51.		3 rd	Public awareness.
52.		4 th	Population growth and variation among nations.
53.	14 th	1 st	Population explosion-family welfare program.
54.		2 nd	Environment and human health.
55.		3 rd	Do
56.		4 th	Human rights.
57.	15 th	1 st	Value education
58.		2 nd	Role of information technology in environment and human
59.		3 rd	Do
60.		4 th	Do

The above lesson plan prepared by the concerned faculty.

Er. Saroj Kumar Sahu

LECTURER, MECHANICAL DEPARTMENT