Lesson Plan

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Name	of the Institute:	C. V. Raman Polytechnic					
Department: Semester/Division/Branch: Subject Name with code: Total No. of Class (Required): Faculty Name:		Mechanical Engineering 3 rd Sem/ME Environmental Studies (Th-5) 60 Mr. Prakash Kumar Parida					
				Class No.	Brief Description of the	e Topic/Chapter to be taught	Remarks
				1	Definition, scope and importance, N	eed for public awareness.	
				2	Definition, scope and importance, Need for public awareness.		
				3	Renewable and non renewable resources:		
4	Natural resources and associated pr						
5	Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people.						
6	Forest resources: Use and over-explo Timber extraction mining, dams and people.						
7	Water resources: Use and over-utilization of surface and ground water,						
	floods, drought, conflicts over water, dam's benefits and problems.						
8	Water resources: Use and over-utilization of surface and ground water,						
	floods, drought, conflicts over water, dam's benefits and problems.						
9	Mineral Resources: Use and exploita and using mineral resources.	tion, environmental effects of extracting					
10		ns ,changes caused by agriculture and					
	-	ure, fertilizers-pesticidesproblems, water					
11	Food Resources: World food problem overgrazing, effects of modernagricult logging, salinity,.	ns ,changes caused by agriculture and ure,fertilizers-pesticidesproblems, water					
12	Energy Resources: Growing energy ne energy sources, use of alternate ener						
13	Energy Resources: Growing energy ne energy sources, use of alternate ener						
	Land Resources: Land as a resource , land Resource , landslides, soil erosion, and desertific						
15	Role of individual in conservation of						
16	Equitable use of resources for sustair	able lifestulas					

17	Concept of an ecosystem.	
18	Structure and function of an ecosystem.	
19	Producers, consumers, decomposers.	
20	Energy flow in the ecosystems.	
21	Ecological succession.	
22	Food chains, food web sand ecological pyramids.	
23	Introduction, types, characteristic features, structure and function of the following ecosystem: Forest ecosystem	
24	Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries).	
25	Revision and Doubt Clearing	
26	Introduction-Definition: genetics, species and ecosystem diversity.	
27	Biogeographically classification of India.	
28	Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and opt in values.	
29	Biodiversity at global, national and local level.	
30	Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.	
31	Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.	
32	Definition Causes, effects and control measures of: Air pollution.	
33	Air pollution.	
34	Water pollution.	
35	Soil pollution	
36	Marine pollution	
37	Noise pollution.	
38	Thermal pollution	
39	Nuclear hazards.	
40	Solid waste Management: Causes, effects and control measures of urban and industrial wastes.	
41	Role of an individual in prevention of pollution.	
42	Disaster management: Floods, earth quake, cyclone and landslides.	
43	From unsustainable to sustainable development.	
44	Urban problems related to energy.	
45	Water conservation, rain water harvesting, water shed management.	
46	Resettlement and rehabilitation of people; its problems and concern.	
47	Environmental ethics: issue and possible solutions.	

and -

48	Climate change, global warming, acid rain, ozone layer depletion, nuclear
	accidents and holocaust, case studies.
49	Air (prevention and control of pollution) Act.
50	Water (prevention and control of pollution) Act.
51	Public awareness.
52	Population growth and variation among nations.
53	Population growth and variation among nations.
54	Population explosion-family welfare program.
55	Environment and human health.
56	Environment and human health.
57	Human rights.
58	Value education
59	Role of information technology in environment and human health.
60	Role of information technology in environment and human health.

Signature of the Faculty

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Signature of the H.O.D