Lesson Plan

		sson Plan					
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 Mrs. Soumya Dash					
				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, N	eed for public awareness.	
				3	Renewable and non-renewable resou	rces:	
4	Natural resources and associated pro	oblems.					
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						
7		ation of surface and ground water, floods,					
8		ation of surface and ground water, floods,					
	Mineral Resources: Use and exploita and using mineral resources.	tion, environmental effects of extracting					
		ns, changes caused by agriculture and ulture, fertilizers-pesticides problems,					
	overgrazing, effects of modern agricu water logging, salinity.	ns, changes caused by agriculture and ulture, fertilizers-pesticides problems,					
12	Energy Resources: Growing energy renergy sources, use of alternate energy	gy sources, case studies.					
13	Energy Resources: Growing energy renergy sources, use of alternate energy	need, renewable and non-renewable gy sources, case studies.					
1	Land Resources: Land as a resource, andslides, soil erosion, and desertific	cation.					
15	Role of individual in conservation of	f natural resources.	,				
16	Equitable use of resources for sustain	nable lifestyles.					

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.	1	
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.		
48	Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies.		
49	Air (prevention and control of pollution) Act.		9-
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.	n deleg	* 1
54	Population explosion-family welfare program.		
55	Environment and human health.		
56	Revision		
57	Human rights.		
58	Value education		
59	Role of information technology in environment and human health.		
60	Revision		

Signature of the Faculty

Signature of the H.O.D