LESSON PLAN

Name of the Institute:	**C. V. Raman Polytechnic, Bhubaneswar**
Department:	**Computer Science & Engineering**
Semester/Division/Branch:	**3rd Sem.**
Subject Name with code:	**EVS/Th-5**
Total No. of Class (Required):	**60**
Faculty Name:	**Pradeep Ranjan Dhal**

Class No.	*Brief description of the Topic/Chapter to be taught*	Remarks
1	TheMultidisciplinarynature of environmental studies	
2	Definition,scopeand importance,Need for public awareness.	
3	.....DO.....	
4	.....DO.....	
5	**NaturalResources**-Renewableand nonrenewableresources:	
6	Natural resources and associated problems.	
7	Forestresources: Use and over-exploitation,deforestation, case studies, Timberextraction mining,dams andtheireffects onforestsandtribalpeople.	
8	Water resources: Use and over-utilization of surfaceandground water, floods,drought,conflicts over water,dam's benefits andproblems.	
9	Mineral Resources: Use and exploitation,environmentaleffects of extracting and using mineral resources.	
10	Food Resources: Worldfood problems,changescausedbyagricultureand overgrazing,effects ofmodernagriculture,fertilizers-pesticidesproblems,waterlogging,salinity, .	
11	EnergyResources: Growingenergyneed,renewable andnon-renewable energy sources,useof alternateenergysources, case studies.	

12	Land Resources: Landasaresource, land degradation,maninduceslandslides, soil erosion, anddesertification.	
13	Role of individual in conservation of natural resources.	
14	Equitableuse ofresourcesforsustainablelifestyles.	
15	**Systems**-Concept ofanecosystem.	
16	Structure andfunction of anecosystem.	
17	Producers,consumers, decomposers.	
18	Energyflow intheecosystems.	
19	Ecological succession.	
20	Food chains, foodwebs andecological pyramids.	
21	Introduction,types,characteristicfeatures,structureand function of thefollowingecosystem:	
22	Forestecosystem,Aquatic ecosystems (ponds,streams,lakes, rivers,oceans, estuaries).	
23	**Biodiversityand it's Conservation**	
24	Introduction-Definition:genetics,species and ecosystemdiversity.	
25	Biogeographicallyclassification of India.	
26	Value of biodiversity:consumptiveuse,productiveuse,social ethical,aesthetic andoptin values.	
27	Biodiversity at global,nationaland locallevel.	
28	Threatstobiodiversity:Habitatsloss,poaching of wildlife, manwildlifeconflicts.	
29	.....DO.....	
30	.....DO.....	
31	**EnvironmentalPollution.**Definition Causes,effects andcontrol measuresof:	
32	Airpollution.	
33	Water pollution.	

34	Soil pollution	
35	Marinepollution	
36	Noisepollution	
37	Thermalpollution	
38	Nuclear hazards.	
39	Solid waste Management: Causes,effects andcontrolmeasuresof urbanand industrial wastes.	
40	.....DO.....	
41	Role ofan individualinprevention of pollution.	
42	Disastermanagement:Floods, earth quake,cycloneandlandslides.	
43	**Socialissuesand theEnvironment**	
44	Formunsustainable to sustainabledevelopment.	
45	Urbanproblems relatedtoenergy.	
46	Water conservation, rainwaterharvesting, water shedmanagement.	
47	Resettlementandrehabilitation of people; its problemsand concern.	
48	Environmental ethics:issue and possiblesolutions.	
49	Climatechange,globalwarming,acid rain, ozone layerdepletion,nuclear accidentsandholocaust, case studies.	
50	Air(prevention andcontrolof pollution) Act.	
51	Water (prevention andcontrolof pollution) Act.	
52	Public awareness.	
53	**HumanPopulation and theEnvironment**	
54	Population growthandvariation among nations.	
55	Population explosion- familywelfareprogram.	
56	Environment andhumanhealth.	
57	Humanrights.	
58	Valueeducation	

59	Role of information technologyin environment andhumanhealth.	
60	.....DO.....	

Signature of the Faculty

Signature of the H.O.D