

Bhoj Reddy Engineering College for Women: Hyderabad

Department of Basic Sciences

Lesson plan of faculty member for the academic year 2016–17

Class: II B Tech
Subject: Environmental Studies

Branch - Section: **IT-A**

Semester: II
Lectures per week: 4

Lecture Number	Topics to be covered	Date (s)
UNIT-I Ecosystems		
1	Definition, classification, function	10 December 2016
2	Food chain ,Food web	13 December 2016
3	Ecological pyramids, Flow of Energy	15 December 2016
4	Biogeochemical cycles , hydrological and gaseous cycles	17 December 2016
5	Biogeochemical cycles - sedimentary cycles	19 December 2016
6	Bio magnification, Bio accumulation, carrying capacity	20 December 2016
7	Ecosystem values ,Services	22 December 2016
UNIT-II Natural Resources		
8	Classification, Water resources- over utilization of surface and ground water	24 December 2016
9	Floods	27 December 2016
10	Droughts	29 December 2016
11	Dams – benefits & problems	31 December 2016
12	Mineral resources ,use and exploitation,	02 January 2017
13	Environmental effects of extracting and using mineral resources	03 January 2017
14	Energy resources, growing energy needs	05 January 2017
15	Alternate energy source – case studies	07 January 2017
16	Renewable and non renewable energy sources	09 January 2017
17	Land resources & Forest resources	10 January 2017
UNIT- III Biodiversity and Biotic resources		
18	Introduction, Definition & classification of Biodiversity	12 January 2017
19	Values of Biodiversity,	14 January 2017
20	Threats to biodiversity- habitat loss	16 January 2017
21	poaching of wild life, man wild life conflicts	17 January 2017
22	India as a mega diversity nation	19 January 2017
23	Conservation of bio-diversity- insitu and ex-situ	21 January 2017
24	National bio diversity act Hotspots of bio-diversity	23 January 2017
25	Revision	24 January 2017
UNIT- IV Environmental pollution & control technologies		
26	Classification of pollution	20 February 2017
27	Air pollution – primary and secondary pollutants, automobile and Industrial pollution	21 February 2017
28	Ambient air quality standards , water pollution :	23 February 2017
29	sources and types of pollution, drinking water standards	25 February 2017
30	Soil pollution: sources and types, impacts of modern agricultural, Degradation of soil	27 February 2017
31	Noise pollution : sources and health Hazards, standards	28 February 2017
32	Solid waste: municipal solid waste management, composition, Characteristics of e-Waste and its management	02 March 2017
33	Pollution control technologies	04 March 2017
34	Pollution control technologies wastewater Treatments Primary, Secondary and Tertiary	06 March 2017
35	Overview of air pollution control technologies,	07 March 2017
36	Concepts of bioremediation, Global environmental problems and global efforts	09 March 2017

37	Climate change and impacts on human environment , Ozone depletion, Ozone depleting substances (ODS)	11 March 2017
38	Deforestation and desertification	13 March 2017
39	International convention/protocols ; Kyotoprotocol, Earth summit, Montreal protocol	14 March 2017
UNIT- V Environmental policy, legislation and EIA		
40	Environmental protection act, Protection act, legal aspects Air act-1981	16 March 2017
41	Water act, forest act	18 March 2017
42	Wild life Act, Municipal solid waste management and handling rules	20 March 2017
43	Hazardous waste management and handling rules,	21 March 2017
44	Biomedical waste management and handling rules	23 March 2017
45	EIA structure methods baseline data acquisition	25 March 2017
46	Impacts of air water biological and Socio economical aspects	27 March 2017
47	Strategies for risk assessment, concepts of EMP, Concept of Sustainable Development	28 March 2017
48	Population and its explosion , Crazy consumerism	30 March 2017
49	Environmental Education Urban sprawl	03 April 2017
50	Human health, environmental Ethics, Concept of Green Building	04 April 2017
51	Ecological foot print Life Cycle assessments	06 April 2017
52	Low carbon life style	08 April 2017
53	Revision	10 April 2017
54	Revision	11 April 2017
55	Revision	13 April 2017

Text book:

1. Environmental Studies by Erach Bharucha & R Rajagopalan.

Name and signature of the faculty: Divya Bharathi R

Name and signature of Head of the Department: Padma K