

Bhoj Reddy Engineering College for Women: Hyderabad

Department of Engineering Chemistry

Lesson plan of faculty member for the academic year 2018–19

Class: II B Tech

Branch - Section: ECE-B

Semester: I

Subject: Environmental Science and Technology

Lectures per week: 3

Lecture Number	Topics to be covered	Date (s)
UNIT-I Ecosystems		
1	Definition, classification, function	09 July 2018
2	Food chain ,Food web	10 July 2018
3	Ecological pyramids, Flow of Energy	12 July 2018
4	Biogeochemical cycles , hydrological and gaseous cycles	16 July 2018
5	Biogeochemical cycles - sedimentary cycles	17 July 2018
6	Bio magnification, Bio accumulation, carrying capacity	19 July 2018
7	Ecosystem values ,Services	23 July 2018
UNIT-II Natural resources		
8	Classification, Water resources	24 July 2018
9	over utilization of surface and ground water	26 July 2018
10	Floods	30 July 2018
11	Droughts	31 July 2018
12	Dams – benefits & problems	02 August 2018
13	Mineral resources ,use and exploitation,	07 August 2018
14	Environmental effects of extracting and using mineral resources	09 August 2018
15	Energy resources, growing energy needs	13 August 2018
16	Alternate energy source – case studies	14 August 2018
17	Renewable and non renewable energy sources	16 August 2018
18	Land resources & Forest resources	20 August 2018
UNIT- III Biodiversity and Biotic resources		
19	Introduction, Definition & classification of Biodiversity	21 August 2018
20	Values of Biodiversity, India as a mega diversity nation	23 August 2018
21	Threats to biodiversity- habitat loss, poaching of wild life, man wild life conflicts	27 August 2018
22	Conservation of bio-diversity- insitu and ex-situ	28 August 2018
23	National bio diversity act Hotspots of bio-diversity	30 August 2018
UNIT- IV Environmental pollution & control technologies		
24	Classification of pollution	10 September 2018
25	Air pollution – primary and secondary pollutants, automobile and Industrial pollution	11 September 2018
26	Ambient air quality standards , water pollution :	17 September 2018
27	sources and types of pollution, drinking water standards	18 September 2018
28	Soil pollution: sources and types, impacts of modern agricultural, Degradation of soil	20 September 2018
29	Noise pollution : sources and health Hazards, standards	24 September 2018
30	Pollution control technologies Solid waste: municipal solid waste management, composition, Characteristics of e-Waste and its management	25 September 2018
31	Pollution control technologies wastewater Treatments Primary, Secondary and Tertiary	27 September 2018
32	Overview of air pollution control technologies,	01 October 2018
33	Concepts of bioremediation, Global environmental problems and global efforts	04 October 2018
34	Climate change and impacts on human environment , Ozone depletion, Ozone depleting substances (ODS)	08 October 2018

35	Deforestation and desertification, International convention/protocols ; Kyotoprotocol, Earth summit, Montreal protocol	11October 2018
36	Environmental protection act, Protection act, legal aspects forest act, Air act-1981, water act.	22 October 2018
UNIT- V Environmental policy, legislation and EIA		
37	Wild life Act, Municipal solid waste management and handling rules	23 October 2018
38	Hazardous waste management and handling rules, biomedical waste management and handling rules	25 October 2018
39	Impacts of air water biological and Socio economical aspects	29 October 2018
40	Strategies for risk assessment, concepts of EMP	30 October 2018
41	Concept of Sustainable Development, Population and its explosion , Crazy consumerism	01 November2018
42	Environmental Education Urban sprawl	05 November2018
43	Human health, environmental Ethics, Concept of Green Building, Ecological foot print Life Cycle assessments, Low carbon life style	06 November2018

Text books:

1. Environmental Studies by Erach Bharucha & R Rajagopalan.

Name and signature of the faculty: R Divya Bharathi

Name and signature of Head - Chemistry faculty: K Sandhya