

**Lecture Plan for the courses handled related to Environment and Sustainability**

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VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

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KapujaggarajuPeta, VSEZ(Post), Visakhapatnam-530049,AP

DEPARTMENT OF MANAGEMENT STUDIES

LECTURE PLAN

Course Name: Environmental Science	Course Code: R201230
Year/ Sem : I B TECH - II SEM	Regulation: R20

Lecture No.	Topic name	Source
Lecture 1	UNIT 1: Environment: Definition, multidisciplinary nature of environmental studies. Scope and importance of environment	T.B:1 Page No:1.1-1.2&1.6-1.9
Lecture 2	Sustainability: Stockholm conference, 1972 the earth summit (Rio summit), 1992. Global warming & climate change.	R.B:4 Page No:11-19 T.B:1 Page No:6.22-6.26
Lecture 3	Carbon credits, Acid Rain and Ozone layer depletion	T.B:1 Page No:6.22-6.31
Lecture 4	Role of IT in Environment & Human Health, Ecosystem : Concept of Ecosystem	T.B:1 Page No:7.50-7.58 Page No:3.1-3.2
Lecture 5	Structure and functional attributes of an ecosystem, Food chains & Food Web.	R.B:4 Page No:43-45 T.B:1 Page No:3.2-3.7
Lecture 6	Ecological Pyramids	T.B:1 Page No:3.7-3.10
Lecture 7	Energy flow in an Ecosystem, Nutrient cycling.	R.B:4 Page No:53-57
Lecture 8	Major Ecosystems: Forest, Grassland Ecosystem.	R.B:4 Page No:60-64
Lecture 9	Desert Ecosystems, Aquatic Ecosystems: Lake, Estuary, Marine Ecosystem.	R.B:4 Page No:64-68
Lecture 10	UNIT II: Forest resources: Deforestation, Dams and their effects on forests and Tribal People	R.B:4 Page No:76-84
Lecture 11	Water Resources: Water Use and Over-exploitation, conflicts over water & Big Dams-Problems.	R.B:4 Page No:84-94
Lecture 12	Mineral Resources: Environmental Impacts of mineral extraction and uses. Sustainable mining of Granite, Lignite, Coal, Sea and River sands, Food Resources: Effects of modern Agriculture.	R.B:4 Page No:95-110
Lecture 13	Energy Resources: Renewable and Non-Renewable Energy Resources Vs Oil and Natural Gas Extraction.	R.B:4 Page No:110-126
Lecture 14	Land Resources: Land Degradation, Soil Erosion & Mitigation measures, Role of an individual in Natural Resource Conservation- conserve water & conserve energy.	R.B:4 Page No:126-139
Lecture 15	UNIT III: Levels of Biodiversity, Biogeographically classification of India. Values of Biodiversity, Hotspots of Biodiversity	R.B:4 Page No:145-146 T.B:1 Page No:4.30-4.32 & Page No:4.23-4.25
Lecture 16	Biological Diversity at National level, Endangered and Endemic Species of India.	T.B:1 Page No:4.16-4.18
Lecture 17	Threats to Biodiversity: Conservation of Biodiversity	T.B:1 Page No:4.31-4.38
Lecture 18	UNIT IV: Air pollution: Definition, causes and control Of Air pollution	T.B:1 Page No:5.8-5.14
Lecture 19	Water pollution : Definition, causes and control of water pollution	T.B: Page No:5.5-5.6
Lecture 20	Soil pollution: Definition, causes and control of soil pollution	T.B: Page No:5.5-5.7

Lecture 21	Noise pollution: Definition, causes and control of noise pollution, Nuclear Hazards	T.B:1Page No:5.18-5.26
Lecture 22	Sources, classification and control measures of urban and industrial solid wastes	T.B:1Page No:5.26-5.35
Lecture 23	Consumerism and waste production, Biomedical Hazardous and e-Waste management	R.B:4Page No:217-220 T.B:1Page no:5.35-5.38
Lecture 24	UNIT V: Urban problems Related to Energy.	T.B:1Page No:6.3-6.4
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Lecture 28	Water pollution Act,1974, Wildlife protection Act,1972	T.B:1Page No:6.40-6.41 R.B:4Page No:240-241
Lecture 29	Forest conservation Act,1980, Public Environmental Awareness.	T.B:1Page No:6.43-6.52
Lecture 30	Environmental Impact Assessment(EIA)	R.B:4 Page No:256-260
Lecture 31	Environmental Impact Statement(EIS), Environmental Management Plan(EMP)	R.B:4 Page No:260-261 R.B:4Page No:261-263
Lecture 32	Environmental Audit, Ecotourism	T.B:1Page No:6.34-6.35 R.B:4Page No:267-270
Lecture 33	Green Campus, Green Business And Green Politics	T.B:1Page No: 6.55-6.56

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Course Name: Environmental Science	Course Code: R201228
Year/ Sem : I B TECH II SEM	Regulation: R20

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DEPARTMENT OF MANAGEMENT STUDIES

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Course Name: Environmental Science	Course Code: R201114
Year/ Sem : I B TECH - I SEM	Regulation: R20

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DEPARTMENT OF MANAGEMENT STUDIES**LECTURE PLAN**

Course Name: Environmental Science	Course Code: R1921039
Year/ Sem : II B TECH - I SEM	Regulation: R19

Lecture No.	Topic name	Source
Lecture 1	UNIT I: Environment: Definition, multidisciplinary nature of environmental studies. Scope and importance of environment	T.B:1 Page No:1.1-1.2&1.6-1.9
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Year/ Sem : I B TECH - I SEM	Regulation: R19

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Lecture 17	Threats to Biodiversity, Conservation of Biodiversity	T.B:1Page No:4.31-4.38
Lecture 18	UNIT IV: Air pollution: Definition, causes and control Of Air pollution	T.B:1Page No:5.8-5.14
Lecture 19	Water pollution :Definition, causes and control of water pollution	T.B: Page No:5.5-5.6
Lecture 20	Soil pollution: Definition, causes and control of soil pollution	T.B: Page No:5.5-5.7

Lecture 21	Noise pollution: Definition, causes and control of noise pollution, Nuclear Hazards	T.B:1Page No:5.18-5.26
Lecture 22	Sources, classification and control measures of urban and industrial solid wastes	T.B:1Page No:5.26-5.35
Lecture 23	Consumerism and waste production, Biomedical Hazardous and e-Waste management	R.B:4Page No:217-220 T.B:1Page no:5.35-5.38
Lecture 24	UNIT V: Urban problems Related to Energy.	T.B:1Page No:6.3-6.4
Lecture 25	Rain water Harvesting: Traditional and Modern Techniques	R.B:4Page No:227-229
Lecture 26	Resettlement and Rehabilitation of people, Environmental Ethics	R.B:4Page No:229-234 T.B:1Page No:6.58-6.60
Lecture 27	Environmental Legislation: The air Act,1981	T.B:1Page No:6.38&6.41-6.43
Lecture 28	Water pollution Act,1974, Wildlife protection Act,1972	T.B:1Page No:6.40-6.41 R.B:4Page No:240-241
Lecture 29	Forest conservation Act,1980, Public Environmental Awareness.	T.B:1Page No:6.43-6.52
Lecture 30	Environmental Impact Assessment(EIA)	R.B:4 Page No:256-260
Lecture 31	Environmental Impact Statement(EIS), Environmental Management Plan(EMP)	R.B:4 Page No:260-261 R.B:4Page No:261-263
Lecture 32	Environmental Audit, Ecotourism	T.B:1Page No:6.34-6.35 R.B:4Page No:267-270
Lecture 33	Green Campus, Green Business And Green Politics	T.B:1Page No: 6.55-6.56

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DEPARTMENT OF MANAGEMENT STUDIES

LECTURE PLAN

Course Name: Environmental Studies	Course Code: R161108
Year/ Sem : I B TECH - I SEM	Regulation: R16

Lecture No.	Topic name	Source
Lecture 1	UNIT I: Environment: Definition, multidisciplinary nature of environmental studies. Scope and importance of environment	T.B:1 Page No:1.1-1.2&1.6-1.9
Lecture 2	Sustainability: Stockholm conference, 1972 the earth summit (Rio summit), 1992. Global warming & climate change.	R.B:4 Page No:11-19 T.B:1Page No:6.22-6.26
Lecture 3	Carbon credits, Acid Rain and Ozone layer depletion	T.B:1 Page No:6.22-6.31
Lecture 4	Role of IT in Environment & Human Health, Ecosystem : Concept of Ecosystem	T.B:1Page No:7.50-7.58 Page No:3.1-3.2
Lecture 5	Structure and functional attributes of an ecosystem, Food chains & Food Web.	R.B:4 Page No:43-45 T.B:1Page No:3.2-3.7
Lecture 6	Ecological Pyramids	T.B:1Page No:3.7-3.10
Lecture 7	Energy flow in an Ecosystem, Nutrient cycling.	R.B:4Page No:53-57
Lecture 8	Major Ecosystems: Forest, Grassland Ecosystem.	R.B:4Page No:60-64
Lecture 9	Desert Ecosystems, Aquatic Ecosystems: Lake, Estuary, Marine Ecosystem.	R.B:4Page No:64-68
Lecture 10	UNIT II: Forest resources: Deforestation, Dams and their effects on forests and Tribal People	R.B:4 Page No:76-84
Lecture 11	Water Resources: Water Use and Over-exploitation, conflicts over water & Big Dams-Problems.	R.B:4 Page No:84-94
Lecture 12	Mineral Resources: Environmental Impacts of mineral extraction and uses. Sustainable mining of Granite, Lignite, Coal, Sea and River sands, Food Resources: Effects of modern Agriculture.	R.B:4Page No:95-110
Lecture 13	Energy Resources: Renewable and Non-Renewable Energy Resources Vs Oil and Natural Gas Extraction.	R.B:4Page No:110-126
Lecture 14	Land Resources: Land Degradation, Soil Erosion & Mitigation measures, Role of an individual in Natural Resource Conservation- conserve water & conserve energy.	R.B:4Page No:126-139
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DEPARTMENT OF MANAGEMENT STUDIES**LECTURE PLAN**

Course Name: Environmental Studies	Course Code: R161212
Year/ Sem : I B TECH - II SEM	Regulation: R16

Lecture No.	Topic name	Source
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