



Teaching Plan: Environmental Studies

Alabbar School of Management		ACADEMIC SESSION: 2023-2024	FOR STUDENTS' BATCH: 2023-2026		
1	Course code	Bcom-2nd sem (Com-207)			
2	Course Title	ENVIRONMENTAL STUDIES			
3	Credits	4			
4	Learning Hours	Contact Hours		60	
		Practical Teaching		40	
		Total hours		2	
5	Course Objective	<p>The subject basically covers all the aspects of Renewable Energy and challenges the engineers are facing in the Energy Sector. The Course is highly need for the beginners graduates for understanding the sustainability of the environment and other various aspects in Engineering.</p>			
6	Course Outcomes	<p>CO1 The student will understand the sustainability in Management</p> <p>CO2 The student will understand the Renewable and Non-Renewable Energy Sources</p> <p>CO3 The student will learn the policies for sustainability of materials in India.</p> <p>CO4 The student will learn the energy flow in the ecosystem</p> <p>CO5 The student will learn the environmental effects and level of pollutant through various types of Energy resources</p>			
7	Outline syllabus:				
7.01	Paper Code	Unit			Teaching methods

MC – I	(I)	<p>Definition and scope and importance Need for Public Awareness Natural Resources, Renewable and Non-Renewable Resources Forest Resources: Use and over exploitation, deforestation and case studies Water Resources Mineral Resources Food Resources Energy Resources Land Resources Role of Individual in the conservation of natural resources</p>		Whiteboard, PPT slides, Tutorials, Demonstration
	(II)	<p>Energy flow in the ecosystem, Ecological succession, Food Chain, food webs and ecological pyramids, Nutrient cycling, biogeochemical cycle, N₂ Cycle, H₂O cycle or carbon cycle. Introduction and characteristics features, structure and function of the following Ecosystem and Biomass, Forest Ecosystem, Grassland ecosystem, Desert Ecosystem, Aquatic ecosystems (Fresh and Marine)</p>		Whiteboard, PPT slides, Tutorials, Demonstration
	III	<p>Introduction – Definition, genetics species ecosystem, Biodiversity. Values of biodiversity, consumptive use, productive use, social, ethical, aesthetic and option values. Biogeographical classification of India Biodiversity at Globe, National and Local Levels, India as a biodiversity Nation. Hot spots of biodiversity, Endangered and endemic species of India. Threats to Biodiversity, habitat loss, poaching of wildlife, man wildlife conflicts, Conservation of Biodiversity, In situ and exsitu conservation of Biodiversity.</p>		

	IV	<p>Environmental Pollution</p> <p>Definition, Causes, effects and control measures (a) Air Pollution, (b) Water pollution, (c) Soil Pollution, (d) Noise Pollution and e) Nuclear hazards</p> <p>Role of an individual in prevention of pollution</p> <p>Solid Waste Management: Causes, effects and control measures of urban and industrial waste. Disaster Management, Floods, Earthquakes, cyclone and Landslide.</p>		
	V	<p>Sustainable Development: From Unsustainable to sustainable development urban problems related to energy. Water conservation and Water shed management</p> <p>Environmental Issues and Possible solutions</p> <p>Environmental Protection Act Air (Prevention and Control of Pollution) Act Water (Prevention and Control of Pollution) Act</p> <p>Wildlife Protection Act</p> <p>Public Awareness and measures</p>		

8	Course Evaluation	
8.10	CA 20%	
8.1	Attendance	10%
8.12	Homework	10%
8.13	Quizzes	-
8.14	Projects	-
8.15	Presentation	-
8.16	Any other	-
8.2	MTE (IA)	20%
8.3	End Term- Examination	60%
9	Text Books and References	
9.1	Text Books	Perspective in Environmental studies by A Kaushik Environmental studies by Benny Joseph, tata McGraw Hill Co New Delhi Environmental Engineering and Science by Gillbert M 2008 PHP Learning Pvt Ltd
9.2	References	
9.3	Video References	

Mapping of Outcomes v. Topics

Course Outcome	Program Outcome												PSO			
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
CO1	3	3	2	3	1	2	1		2	2	1	2	3	3	2	2
CO2	3	3	3	3	2	2	1		1	1	1	1	3	3	2	2
CO3	3	3	3	3	3	2	2		2	2	2	2	3	3	2	2
CO4	3	3	3	3	3	2	2		2	1	1	1	3	2	2	1
CO5	3	2	1	1	3	3	2		1	1	1	2	3	2	3	2

Assignment Questions

- Q.1. What is the difference between the climate change and global warming?
- Q.2. Examine what natural disasters are linked to climate change.
- Q.3. What are the renewable sources of energy? Explain the answer with the help of schematic layout.
- Q.4. What are the major food security issues the world is being facing? How can you contribute to the maintain the sustainability of food security?
- Q.5. Differentiate between the Renewable and Non-Renewable Energy Resources.
- Q.6. What is the significance of studying the courses Environmental studies?
- Q.7. Explain the term ecosystem and what are the energy flow in the ecosystem.
- Q.8. What do you mean by the term Environmental protection act and what policies are being adapted by this act?
- Q.9. How does the excess of CO₂ increase the environmental temperature and also whats is its impact.
- Q.10. How does an Ecosystem work? How does the organism adapt to their environment.
- Q.11. What are the long term consequences of the plastic waste? How does the ecological foot print method work?
- Q.12. Explain the elements of population growth.
- Q.13. What do you mean by Zero Waste? How can you make food source more sustainable?
- Q.14. How can a person live more sustainable and explain the three pillars of sustainability?
- Q.15. How does the green construction work? What the connection between the sustainability and climate change?
- Q.16. How can the technology become green? What is social sustainability?
- Q.17. What are the general principle of environmental law?
- Q.18. Why can the environmental law be controversial? What are the advantages of emission certificates?

Q.19. Describe the key concerns of the Environmentalism. What are the different types of green movements?

Q.20. Why are the environment movement so important?