ENVIRONMENTAL SCIENCE

Course Code	23AC13301	Year	II	Semester	Ι		
Course Category	Audit course	Branch	ME	Course Type	Theory		
Credits	0	L-T-P	2-0-0	Prerequisites	Nil		
Continuous Internal Evaluation:	30	Semester End Evaluation:	0	Total Marks:	30		
Course Outcomes After successful completion of the course, the student will be able to Apply advanced solutions to measure the threats and hazards in environment to link with human natural systems.(L3)							

	Analyze the ethical ,cultural and historical interactions between man and
CO2	environment.(L4)
CO3	Analyze various environmental assets and record for better management(L4)
CO4	Analyze global issues to design and evaluate policies(L4)

CO5 Apply system concepts to methodological social and environmental issues(L3)

	Contribution of Course Outcomes towards achievement of Program Outcomes & Strength of correlations (H:High, M: Medium, L:Low)													
	PO1	P 0 2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2						2							
CO2		2					3							
CO3		3					3							
CO4		2					3							
CO5	2						2							

UNIT	Contents					
NO						
Ι	INTRODUCTION TO ENVIRONMENT AND NATURAL	CO1				
	RESOURCES	CO2				
	Introduction to environment. Natural resources & Management- Forest					
	resources, Water resources, Mineral resources, Food resources, Energy					
	resources - Uses, over-exploitation with case studies & Management					
II	ECOSYSTEMS AND BIODIVERSITY	CO1				
	Structural and Functional components of an ecosystem and Ecological					
	succession. Biodiversity: Values, Threats and Conservation					
III	ENVIRONMENTAL POLLUTION AND CONTROL					
	Environmental Pollution - Air Pollution, Water pollution, Soil pollution					
	and Noise pollution with case studies. Solid waste Management.					
IV	GLOBAL ENVIRONMENT PROBLEMS & GLOBAL EFFORTS					
	AND EIA	CO5				
	Global warming, Ozone Depletion, Acid rains and Climate change.					
	Environmental Impact Assessment & Environmental Management Plans					
V	SOCIAL ISSUES AND ENVIRONMENTAL LEGISLATION	CO4				
	From Unsustainable to Sustainable development. Population growth,	CO5				

Environment and human health. Value Education. Women and Child
Welfare. Environment Legislation

Learning	Recourses

Text Books

- 1. Anubha Kaushik and C.P. Kaushik, Text book of environmental studies New Age International Publisher (2014).
- 2. Erach Barucha, Text book of environmental studies for undergraduates courses, published by University Grants Commission, University Press (2005)
- 3. Anindita Basak, Environmental Studies. Pearson (2009)

Reference Books

- 1. D.K. Asthana and Meera Asthana, A Text book of Environmental Studies, S. Chand (2010).
- 2. P.M Cherry Solid and Hazardous waste Management, CBS Publisher (2016).
- 3. Charles H. Ecclestion, Environmental Impact Assessment, CRC Press (2011).