ENVIRONMENTAL SCIENCES

Cou	ırse				~				
Code		23AC1301	Year	II	Semester	I			
Course				Common to					
Category		Audit course	Branch	all branches	Course Type	Theory			
Cre		0	L-T-P	2-0-0	Prerequisites	Nil			
Contin	nuous		Semester		-				
T40		20	E d	NY:1	Total	30			
Inte	гпаі	30	End	Nil	Marks:				
Evalua	ation:		Evaluation:						
	Course Outcomes								
After successful completion of the course, the student will be able to									
	Apply advanced solutions to measure the threats and hazards in								
CO1	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	PO2	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 NO	Contents							
I	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							
	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							
	Global warming, Ozone Depletion, Acid rains and Climate change.							
	Environmental Impact Assessment & Environmental Management Plans							
V	SOCIAL ISSUES AND ENVIRONMENTAL LEGISLATION							
	From Unsustainable to Sustainable development. Population growth,							
	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).