ENVIRONMENTAL SCIENCES

Course Code	23AC1301	**Year**	II	**Semester**	I
Course Category	Audit course	**Branch**	Common to all branches	**Course Type**	Theory
Credits	0	**L-T-P**	2-0-0	**Prerequisites**	Nil
Continuous Internal Evaluation:	30	**Semester End Evaluation:**	Nil	**Total Marks:**	30

Course Outcomes

After successful completion of the course, the student will be able to

CO1	Apply advanced solutions to measure the threats and hazards in environment to link with human natural systems.(L3)
CO2	Analyze the ethical ,cultural and historical interactions between man and 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)

UNIT NO	Contents	Mapped COs
I	**INTRODUCTION TO ENVIRONMENT AND NATURAL RESOURCES** Introduction to environment. Natural resources & Management- Forest resources, Water resources, Mineral resources, Food resources, Energy resources - Uses, over-exploitation with case studies & Management	CO1 CO2
II	**ECOSYSTEMS AND BIODIVERSITY** Structural and Functional components of an ecosystem and Ecological succession. Biodiversity: Values, Threats and Conservation	CO1 CO2
III	**ENVIRONMENTAL POLLUTION AND CONTROL** Environmental Pollution - Air Pollution, Water pollution, Soil pollution and Noise pollution with case studies. Solid waste Management.	CO3
IV	**GLOBAL ENVIRONMENT PROBLEMS & GLOBAL EFFORTS AND EIA** Global warming, Ozone Depletion, Acid rains and Climate change. Environmental Impact Assessment & Environmental Management Plans	CO4 CO5
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	CO4 CO5

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).