ENVIRONMNETAL MANAGEMENTPVP-19 Regulation

Course Code	**19ES5601A**	**Year**	III	**Semester**	II
Course Category	course	**Branch**	CSE	**Course Type**	Theory
Credits	3	**L-T-P**		**Prerequisites**	
Continuous Internal Evaluation:	30	**Semester End Evaluation:**	70	**Total Marks:**	100

Course Outcomes

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

CO1	Understand environmental management principles in relation to sustainable development & Economic sustainability. (L2)
CO2	Apply critically theoretical and conceptual issues relating to environmental.(L3)
CO3	Analyze & undertake research that will allow to articulate in both oral and written form and for appraisal of contemporary environmental management decision-making. (L4)
CO4	Analyze & Employ project management processes and analytical tools to achieve a sustainable outcome to environmental problems. (L4)
CO5	Apply knowledge to Prepare technical papers/briefings to communicate risk/solutions to stakeholders.(L3)

Contribution of Course Outcomes towards achievement of Program Outcomes & Strength of correlations (3:High, 2: Medium, 1:Low)

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**
CO1	3						2							
CO2	3						2							
CO3	3						2							
CO4	3						2							
CO5	3						2							

UNIT NO	Contents	Mapped Cos
I	**The atmosphere and human activities** structure and composition of the atmosphere , Atmospheric pollution and causes describe and explain the causes, with reference to London smog, acid rain, ozone layer depletion, greenhouse effect, and their impact on people and environment ,Managing atmospheric pollution by people, governments and individuals to reduce the global impacts, Case study New Delhi Smog.	CO1 CO2
II	**Water and its management** Global water distribution state the distribution **,**Water quality and availability - water-rich and water-poor countries**,** Multipurpose dam projects –Impacts –case studies- chipko movement , Narmada bachavo	CO1 CO2

	andholan **,**Water pollution and its sources **,**Managing pollution of fresh water -Case study-Ganga River **,** Water related diseases and Management.	
III	**Energy and the environment** Classify energy resources as non-renewable and renewable, Fossil fuel formation , Energy demands, Conservation and management of Non-renewable energy resources , Alternate energy sources to meet the present demand.	CO1 CO3
IV	**Managing natural hazards** Earthquakes and volcanoes Management - Case study, Earthquake management in California **,** Tropical cyclones- storms, hurricanes, typhoons-Case study Managing cyclone impact in Orissa, India , Flooding -Case study Flooding in Bangladesh, Drought -Case study Drought in the India.	CO1 CO4
V	**Techniques for investigation and examination** Investigation skills-EIA **,** Methods for local investigations – EIA statement ,Examination techniques-Policy framing- Odd and Even rule in Delhi**.(Using Software)**	CO1 CO5

Learning Recourses
Text Books
1. Agarwal, K.M., Sikdar, P.K., Deb., S.C (2005) A Text Book of Environment, Macmillan India Limited. 2. Sharma, R.D. (1976), Organisational Management, Light and Life Publishers, New Delhi. 3. Varma and Agarwal, Theory & practice of Management Forward BookDepot, New Delhi.
Reference Books
1. Kovntz, H and C. Danvel (1978): Essential of management, second edition, Tata Mc Graw Hill publishing company, New Delhi. 2. Erickson, P.A. (1977) Environmental Impact Assessment – Principles an3. Erickson, P.A. (1977)