

Department of Liberal Education
Era University, Lucknow
Course Outline
Effective From: 2023-24

Name of the Program	B.A. / B.Sc. (LIBERAL EDUCATION)			Year/ Semester:	3rd / 6th
Course Name	Environmental Management and Laws	Course Code:	EVA308	Type:	Theory
Credits	04			Total Sessions Hours:	60 Hours
Evaluation Spread	Internal Continuous Assessment:	50 Marks		End Term Exam:	50 Marks
Type of Course	<input type="radio"/> Compulsory	<input checked="" type="radio"/> Core	<input type="radio"/> Creative	<input type="radio"/> Life Skill	
Course Objectives	<ol style="list-style-type: none"> To introduce the role of Environmental laws, policies and tools in the conservation and management of natural resources as well as control of pollution. To explain the effort of organizations working at the national and international level relating to environment. To comprehend knowledge of impact assessment tools to scrutinize the environmental impact of developmental project and mitigate the possible effects on environment. 				
Course Outcomes(CO): <i>After the successful course completion, learners will develop following attributes:</i>					
Course Outcome (CO)	Attributes				
CO1	Understand the importance and role of environmental laws & policies framed by Indian government to deal environment related issues.				
CO2	Learn about various organizations and policies/protocols implemented at National and International levels to safeguard environment from degradation.				
CO3	Learn about computer-aided technologies and practical tools used to manage natural resources and mediate environment protection.				
CO4	Develop understanding about environmental impact assessment and auditing tools to mitigate possible impact of development on environment.				
Pedagogy	Interactive, discussion-based, student-centered, presentation.				
Internal Evaluation Mode	Mid-term Examination: 20 Marks Activity: 10 Marks Class test: 05 Marks Online Test/Objective Test: 05 Marks Assignments/Presentation: 05 Marks Attendance: 05 Marks				
Session Details	Topic			Hours	Mapped CO
Unit 1	Environmental Laws & policies <ul style="list-style-type: none"> • Concept of Law, Rules & Act • Article 48A & 51A (g) • Object and principles of: The Air (Prevention and Control) Act, 1981; The Water (Prevention and Control) Act, 1974; The Environmental (Protection) Act, 1986; The Wildlife Protection Act, 1972 • National Green Tribunal Act, 2010 			14	CO1

	Activity: Review and discuss any one case study related to Environmental problem and law. (e.g. CNG vehicles in Delhi; Almitra H Patel Vs Union of India; POSCO case, Save Mon Federation Vs Union of India, etc.).		
Unit 2	Organizations and Conventions <ul style="list-style-type: none"> • National and International organizations: IPCC, UNEP, UNDP, WWF, MoEF, CPCB • Conventions on climate change: CoP; Paris agreement, Kyoto protocol • Conventions on ozone layer: Montreal Protocol and Kigali amendment • Other major conventions: Earth summit, Stockholm conference Basal Convention, CBD • Political context for environmental negotiations, process for international assessments, and progress toward mitigation goals Activity: Debate on environmental significance and goals achieved by any one organization/conference.	14	CO2
Unit 3	Introduction to Remote sensing and GIS <ul style="list-style-type: none"> • Remote Sensing and GIS: definitions and principle • Electromagnetic (EME) spectrum and spectral signature • Satellites and sensors • Application of GIS in Environment management Activity: Create an infographic poster (A3 size) on Indian satellites used for GIS.	16	CO3
Unit 4	EIA and Environmental Audit <ul style="list-style-type: none"> • Environmental Impact Assessment: concept and methodologies • Life-cycle analysis; cost-benefit analysis • Environmental Audit • Environmental Management System • Standards (ISO 14000 series) and Eco-labelling schemes Activity: Click 5-10 photographs of eco-labels found on daily use products & paste them with details on A4 size sheets	16	CO4

CO-PO and PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1		1		3		2	1		3	3	3	3	3	
CO2		2		3		2	2		3		2			
CO3		2		3		2	3		3		2	3	2	
CO4		1		3		2	2		3		2	3	3	

Strongcontribution-3, Averagecontribution-2, Lowcontribution-1,

Suggested Readings:

Text- Books	1. Environmental Protection and Laws, Jadhav, H & Bhosale, V.M., Himalaya Pub. House, Delhi. 2. Text Book on Environmental Impact Assessment, Barthwal, R. R., New Age International Private Limited.
Reference Books	1. Handbook of Environmental Laws, Rules Guidelines, Compliances and Stadards, Vol I and II, Trivedi R.K., Enviro Media. 2. Environmental Impact Assessment, Canter, L.W., McGraw Hill, New York. 3. Environmental Audit, Shrivastava, A. K., New Delhi, India

Para Text	<p>Unit 1: 1. Environmental Laws in India- https://www.mondaq.com/india/waste-management/624836/environment-laws-in-india</p> <p>Unit 2: 1. Convention on biological diversity- https://www.un.org/en/observances/biological-diversity-day/convention</p> <p>Unit 3: 1. Remote sensing- https://zslpublications.onlinelibrary.wiley.com/journal/20563485</p> <p>Unit4: Eco-labelling- https://www.youtube.com/watch?v=1rOv4tTClkg&ab_channel=JanIdelEmmanuelCastaneda</p>
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Recapitulation & Examination Pattern

Internal Continuous Assessment:

Component	Marks	Pattern
Mid-term Exam	20	Section A: Contains 10 MCQs/Fill in the blanks/One Word Answer/ True-False type of questions. Each question carries 0.5 marks . Section B: Contains 07 descriptive questions out of which 05 questions are to be attempted. Each question carries 03 marks .
Activity	10	Will be decided by subject teacher
Class Test	05	Contains 05 descriptive questions . Each question carries 01 marks.
Online Test/ Objective Test	05	Contains 10 multiple choice questions . Each question carries 0.5 marks.
Assignment/ Presentation	05	Assignment to be made on topics and instruction given by subject teacher.
Attendance	05	As per policy.
Total Marks	50	

Course created by: **Dr. Swati Sachdev**

Signature:

Approved by: **Prof. Venkatesh Dutta**

Signature: