

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:	2nd / 3rd									
Course Name	Practical on Environmental Pollution	Course Code:	EVA201P	Type:	Practical									
Credits	01			Total Practical Hours:	30 Hours									
Evaluation Spread	Internal Continuous Assessment:	10 Marks		End Term Exam:	15 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"> It helps students to practically assess the actual problem of environmental pollution. It helps students to learn approaches and methods to analyze the extent of environmental contamination with pollutants. Students learn methods to manage and control pollution. 													
Course Outcomes (CO): <i>After the successful course completion, learners will develop following attributes:</i>														
Course Outcome (CO)	Attributes													
CO1	Practical knowledge for the determination of water quality parameters.													
CO2	Practical know how for the determination of particulate matter load in the air.													
CO3	Gain knowledge on components of solid waste and their segregation.													
CO4	To evaluate and compare the level of noise at different places and identify its effect.													
Pedagogy	Interactive, discussion-based, student-centered, practical output.													
Internal Evaluation Mode	Experiment- Writing and Conductance File maintenance/Laboratory record Continuous Attendance and Participation													
Practical No.	Experiments				Contact Hours	Mapped CO								
1	To determine the fluoride content in the given water sample.				06	CO1								
2	To determine the nitrate content in the given water sample.				06	CO1								
3	To estimate the amount of dust (particulate matter) deposition on the leaves of roadside plants.				06	CO2								
4	To segregate domestic waste into bio-degradable and non-biodegradable components.				06	CO3								
5	Determine the noise levels of the classroom, library, park and canteen.				06	CO4								
CO-PO and PSO Mapping														
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1			3	3		2	2	1	3	3	2			2
CO2			3	3		2	2	1	3	3	2			2
CO3			3	3		2	3	1	3	3	2			2
CO4			3	3		2	2	1	3	3	2			2

Strong contribution-3, Average contribution-2, Low contribution-1,

Suggested Readings:

Reference Books 1. Standard Methods for the Examination of Water and Wastewater, 24th Edition by William C. Lipps, Ellen Burton Braun-Howland, Terry E. Baxter (Editor)

E-Resource 1. <https://solemnserenity21.weebly.com/chapter-3-methodology.html>
2. <https://core.ac.uk/download/pdf/11784278.pdf>

Internal Practical Evaluation:

Component	Marks
Experiment- Writing and Conductance	05
File maintenance/ Laboratory record	02
Continuous Attendance and Participation	01
Viva-Voce	02
Total Marks	10

Course created by: Dr. Swati Sachdev

Signature:

Approved by: Prof. Venkatesh Dutta

Signature: