

## Department of Liberal Education Era University, Lucknow

Course Outline Effective From: 2023-24

Name of the	B.A. / B.Sc. (LIBERAL EDUCATION)			Year/ Semester:	3 <sup>rd</sup> / 6 <sup>th</sup>			
Program		Γ	I					
Course Name	Practical on Environmental  Disaster & Global Change	Course Code:	EVA306P	Туре:	Practical			
Credits		)1		<b>Total Practical Hours:</b>	30 Hours			
Evaluation Spread	Internal Continuous Assessment:	10 1	Marks	End Term Exam: 15 Mark				
Type of Course	C Compulsory	€ Core C Creative			C Life Skill			
Course Objectives	<ol> <li>Students understand about the weather anomalies resulting in climate change and aggravated intensity and duration of natural disasters.</li> <li>Learn strategies to safeguard themselves and others during environmental emergency.</li> <li>Know about the disaster profile of the country and evaluate risk of development.</li> </ol>							
Course Outo	Outcomes (CO): After the successful course completion, learners will develop following							
Course Outcome (CO)	Attributes							
CO1	Students understand how weather anomalies have been occurring with increasing human activities.							
CO2	Learn about safety protocol that should be adopted at time of emergency.							
CO3	To learn about the disaster profile of the country.							
CO4	To know the causes and effect of cyclones occurred around the world and evaluate change in disaster intensity with time.							
Pedagogy	Interactive, discussion-based, student-centered, program outputs							
Internal Evaluation Mode	Experiment- Writing and Conductance File maintenance/Laboratory record Continuous Attendance and Participation							
Practical No.	Experiments Contact Hours CO							
1	To study the change in temperature and rainfall pattern of Lucknow city during last 5 decades.							
2	To learn the safety protocol in case of emergency i.e., earthquake and fire.							
3	To study the fire dis	aster man	agement plan	n of an organization.	06	CO2		
4		To identify and analyze the natural disaster (earthquake, landslide, flood and drought) prone status of India and mark on map.						
5	Prepare a list of major tropical cyclones occurred in different parts of world in past 20 years, analyze change in frequency & loss occurred.							

CO-PO	and I	PSO M	apping											
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1		3	3			3	3	2	3	2			2	2
CO2		3		3				2	3	3	2	1	3	2
CO3		3	2			3	3	2	2	3	3	3	3	2
CO4		3	3			3	3	2	2	2	3	3	3	2
Strong co	Strong contribution-3, Average contribution-2, Low contribution-1,													

## **Suggested Readings:**

Reference Books	1.	Conquering Climate Change Anxiety: Prepare for Environmental Disaster, Become a Global Warming Activist, Protect your Mental Health: A Practical Workbook for Millennial's Eco Anger, Guilt, and Stress (Simple Sustainable Living) by Daniel I Stein. 2022. RMC Publishers.
E-Resource	1.	https://www.cdc.gov/disasters/earthquakes/during.html
	2.	https://visualize.data.gov.in/?inst=98fe9271-a59d-4834-b05b-fd5ddb94ac01
	3.	https://data.gov.in/catalog/annual-and-seasonal-mean-temperature-india
	4.	https://data.gov.in/resource/all-india-area-weighted-monthly-seasonal-and-annual-
		rainfall-mm-1901-2015.

## **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	Approved by: Prof. Venkatesh Dutta
Signature:		Signature: