

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 / 4th
Course Name	Practical on Natural Resource & Management	Course Code:	EVA202P	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"> 1. Identify various natural resources and their distribution. 2. Learn approaches to conserve and manage resources sustainably. 3. Learn analytical techniques to evaluate and analyze the existing properties of natural resources. 				
Course Outcomes (CO): After the successful course completion, learners will develop following attributes:					
Course Outcome (CO)	Attributes				
CO1	Practical knowledge to identify natural resources and learn their local and global distribution.				
CO2	Practical know how about the techniques to conserve natural resources and benefits of sustainable use.				
CO3	Learn analytical approaches to evaluate the properties of natural resources to promote their conservation.				
CO4	Assess the responsible use of natural resources.				
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	Mapped CO
1	Identification of different types of rocks on the basis of physical characters.			06	CO1
2	Mark distribution of mineral resources on map of India and the World			06	CO1
3	To demonstrate the principles and functioning of Rain water harvesting.			06	CO2
4	To determine the physico-chemical properties of the given agricultural soil sample.			06	CO3
5	To assess the food resource wastage in canteens and/or hostels through survey/observation.			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			1		1	1			3	
CO2			3	3	3	3	3	2	3	3	3		3	2
CO3			3	3		2	2		3		3		1	
CO4			3	3	3	3	3	2	3	2	3		1	2
<i>Strong contribution-3, Average contribution-2, Low contribution-1,</i>														
Suggested Readings:														
Reference Books	1. Soil Physical Properties: Standard Methods of Laboratory and Field Investigations, 1 ST edition by S.K. Gupta and I.C. Gupta. 2022. Scientific Publishers.													
E-Resource	1. https://www.thoughtco.com/rock-identification-tables-1441174#:~:text=rocks%20on%20earth,-.Rock%20Identification%20Tips,white%20and%2For%20gray%20minerals. 2. https://www.youtube.com/watch?v=SxiIdlYT-Qo 3. https://www.youtube.com/watch?v=JKHdkLOdzoQ													
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: