

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:	2 nd / 4 th				
Course Name	Natural Resources & its Management	Course Code:	EVA202	Туре:	Т	heory			
Credits)4		Total Sessions Hours:	60 Hours				
Evaluation Spread	Internal Continuous Assessment:	40 Marks		End Term Exam:	35 Marks				
Type of Course	C Compulsory	C Core C Creative		Creative	C Life Skill				
Course Objectives	 Learn about natural resources & their global distribution Understand the significance of different resources and factors for their depletion/degradation. Understand various approaches to manage natural resources. Gain insights into alternative methods to non-renewable resources. 								
Course Outcontrol of the Course Outcontrol of	Course Outcomes (CO): <i>After the successful course completion, learners will develop following attributes:</i>								
Course Outcome (CO)	Attributes								
CO1	Learn about land resource, process responsible for its degradation and various management approaches.								
CO2	Learn about activities responsible for depletion and management of water resources.								
CO3	Understand threats related to forest and agricultural resources and be able to know the strategies for their sustainable management.								
CO4	Students will be able to understand the extent of damage associated with use of fossil fuel and mineral resources and learn potential alternatives to conventional resources.								
Pedagogy	Interactive, discussion-bases, student-centered, presentation.								
Internal Evaluation Mode	Mid-term Examination: 20 Marks Class test: 05 Marks Online Test/Objective Test: 05 Marks Assignments/Presentation: 05 Marks Attendance: 05 Marks								
Session Details	Торіс					Mapped CO			
Unit 1	Land resource15CO1• Natural resources: Definition and types15CO1• Land resource: soil, landforms, and mineralsPedogenesis and soil profile15• Degradation and desertification of land: causes and effectsManagement approach: conservation, reclamation and land use planning15								
Unit 2	Water resources15CO2• Water resource: Hydrological cycle, occurrence, availability15								

	 and demand Depletion of water resources: causes and conflicts Management practices: Rain water harvesting; Watershed management Marine water resource: Exploitation and management Wetlands: Ecological importance and conservation. 												
Unit 3	Biological resources15CO3• Forest resource: Types of forests and ecological importance15CO3• Threats to Forest resources and effects• Forest Management15• Agriculture Resources: Types, practices involved and ecological impacts• Management approaches: integrated pest management, organic farming, etc.15												
Unit 4	Energy and mineral resource15Conventional and Non-Conventional Energy Resources15Fossil fuels: Uses and impact15Alternative to fossil fuels15Mineral resources: Types, distribution and uses15Environmental effects of mining and management practices15Case Studies- Mining in Aravalli Hills; Sand mining in UP.15												
CO-PO and F			DO 4	DO5	DOC	DO7	1 -	-	1 -	1 -	1 -		1 -
CO PO1 CO1 2	PO2	PO3 3	PO4	PO5	PO6	PO7	PO8	PSO1 3	PSO2 2	PSO3 3	PSO4	PSO5 2	PSO6
CO1 2 CO2 2		3	2		3	3		3	2	3	1	2	
CO3 2		3	2		3	3		3	2	3	1	2	
CO4 2		3	2		3	3		3	2	3	1	2	
Strong contribution Suggested Re			ge contri	bution-2,	L	ow contrib.	oution-1,						
Text- Books													
Reference	1. Ra	amade.	F. 1984	4. Ecolo	ogy of l	Natural	Resou	rces. Jo	hn Wile	ev & Sc	ons Ltd.		
Books								<i>.</i> .					
	2. Owen, O.S, Chiras, D.D, & Reganold, J.P. 1998. Natural Resource Conservation-												
	Management for Sustainable Future (7th edition). Prentice Hall.												
Para Text	Unit 1: 1. Land resources- <u>https://www.youtube.com/watch?v=h6JVx2a8QaM&ab_channel=MicrobTalk</u> Unit 2: 1. Wetlands- <u>https://oceanservice.noaa.gov/facts/wetland.html</u> Unit 3: 1. Forest resources- <u>https://www.youtube.com/watch?v=TAPUUHqI_A&ab_channel=beautywithbrains</u> Unit4:												
	1. M	linerals	and n	nining_	https://	www.y	outube	.com/w	atch?v	=IL0Kf	vfSvso		

Recapitulation & Examination Pattern						
Internal Continuous Assess	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. <u>Section B:</u> Contains 07 descriptive questions out of which 05 questions are to be attempted. Each question carries 03 marks.				
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	40					

Dr. Swati Sachdev

Approved by: Prof. Venkatesh Dutta

Signature:

Signature: