



TRADE MARK

LIONTM

Teacher's Lesson Note

(2023-2024)

SUB:- ENVIRONMENTAL STUDIES
3rd Sem (Winter)-2023-24
MECH - I, II

TEACHERS

LESSON NOTE

Date	Week	Class	Subject	Topic (Concept)	Sub-Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be used
03/08/23	1 st	1 st	Environmental Studies	The multi-disciplinary nature of environmental studies		• Definition • Discuss	
11/08/23	2 nd	2 nd				• Scope • Importance	
14/08/23	3 rd	3 rd				• Need for • Public awareness	
17/08/23	4 th	4 th				• Discuss about • Environmental • Studies	

Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
9	10	11	12	13	14
• What is Environmental - mental	• Description of environmental		<i>[Signature]</i> 03/08/23	<i>[Signature]</i> 03/08/23	
• What are the scope of Environmental studies	• Scope of Environmental studies		<i>[Signature]</i> 03/08/23	<i>[Signature]</i> 03/08/23	
	• Need for • Public Awareness		<i>[Signature]</i> 03/08/23	<i>[Signature]</i> 03/08/23	
• Why Public Awareness is Important	• Public awareness • Needs to • Study EVS		<i>[Signature]</i> 03/08/23	<i>[Signature]</i> 03/08/23	

TEACHERS

LESSON NOTE

Date	Class	Subject	Topic (Concept)	Sub-Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be used
18/08/23	1 st		Natural Resources	Renewable and Non-Renewable Resources	Natural resources of associated problem. • Forest resources - Use of over-exploitation, depletion, cashew, etc.	
21/08/23	2 nd				• Forest resources - Timber extraction, mining, deers & their effect. • Water resources - Use of over-utilization of surface & ground water, floods, drought.	
22/08/23	3 rd				• Conflicts over water. • Water resources - Use of over-utilization	
24/08/23	4 th				• Dam's benefits & Problems	

Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
9	10	11	12	13	14
• What do you mean by Natural Resources Explain with Example	Natural Resources Types & classes • Renewable • Non-Renewable		18/08/23	21/08/23	
• Define Deforestation • What are the effects of deforestation?	• Forest resources Timber extraction, mining, deers & their effect.		21/08/23	21/08/23	
	• Deforestation & water resources. Use of over-utilization		22/08/23	21/08/23	
	• Dam's benefits & Problems		24/08/23	24/08/23	

TEA (H.E.D.S)

Date	Week	Class	Subject	Topic (Concept)	Sub-Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be used
25/08/23	1 st	1 st		Natural Resources	Mineral Resources	Used & exploitation	
28/08/23	2 nd	2 nd				Environmental effects of extracting & using mineral resources.	
31/08/23	3 rd	3 rd			Food Resources	World food problem Changes caused by agriculture & overgrazing.	
01/09/23	4 th	4 th				Effects of modern agriculture, Fertilizers - Pesticides Problems. Water Logging Salinity.	

LESSON NOTE

Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
9	10	11	12	13	14
	Used & exploitation of ground & surface water.				
	Environmental effects of extracting & using mineral resources.				
	Food resources World food problem. Changes caused by agriculture & overgrazing.				
	Effects of modern agriculture, Fertilizers - Pesticides Problems. Water logging Salinity				

Date	Period	Class	Subject	Topic (Concept)	Sub-Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be used
04/09/23	4 th	1 st			Energy Resources	Growing energy need, renewable & non-renewable energy sources.	
22/09/23	2 nd	2 nd				Use of alternate energy sources. Case Studies.	
22/09/23	3 rd	3 rd			Land Resources	- Land as a resource - Land degradation - Man induces land use - Soil conservation - disastification.	
22/09/23	4 th	4 th				- Role of individual in conservation of natural resources. - Equitable use of resources for sustainable lifestyle.	

Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
9	10	11	12	13	14
	Growing energy need, renewable & non-renewable energy resources.		<i>[Signature]</i>	<i>[Signature]</i>	
	Use of alternate energy sources. Case Studies.		<i>[Signature]</i>	<i>[Signature]</i>	
	- Land Resources - Land degradation - Man induces land use - Soil conservation - disastification.		<i>[Signature]</i>	<i>[Signature]</i>	
	- Conservation of natural Resources. - Equitable use of resources for sustainable lifestyle.		<i>[Signature]</i>	<i>[Signature]</i>	

TEAM LEADS

LESSON NOTE

Date	Period	Class	Subject	Topic (Concept)	Sub-Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be used
12/09/20	5 th	1 st		Systems		• Concept of an ecosystem	
21/09/20	2 nd					• Structure & Function of an ecosystem	
22/09/20	3 rd					• Producers, consumers, decomposers.	
23/09/20	4 th					• Energy flow in the ecosystem	

Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
9	10	11	12	13	14
	• Concept of an Ecosystem Discussion				
	Structure & Function of an ecosystem.				
	• Producer • Consumer • decomposers • Components of Environment				
	Energy flow in the Ecosystem				

TEACHERS

LESSON NOTE

Date	Week	Class	Subject	Topic (Concept)	Sub-Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be used
26/09/23	6 th	1 st				• Ecological Succession • Food chains, food web.	
29/09/23	6 th	2 nd				• Ecological Pyramids	
06/10/23	6 th	3 rd				• Introduction. • Types.	
09/10/23	6 th	4 th				• Characteristics features.	

Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
9	10	11	12	13	14
• Ecological Succession • Food chains food web.			Amritha	Srinivas	
• Ecological Pyramids			Amritha	Srinivas	
• Introduction • Types			Amritha	Srinivas	
• Characteristics features			Amritha	Srinivas	

TEACHERS

Date	Prq	Class	Subject	Topic (Concept)	Sub-Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be used
19/10/22	4th	1st				Structure & function of the following ecosystem.	
19/10/22	2nd					Forest ecosystem.	
6/11/23	2nd					Aquatic ecosystem Pond, streams,	
7/11/23	4th					Lakes, rivers, oceans, estuaries.	

LESSON NOTE

Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
9	10	11	12	13	14
	Structure & function of the following ecosystem.				
	Forest ecosystem.				
	Aquatic ecosystem Pond, stream etc				
	Lakes, rivers, oceans, estuaries.				

TEACHERS

Date	Class	Subject	Topic (Concept)	Sub-Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be used
9/11/23	6 th	1 st	Biodiversity & its conservation		• Tentative definition.	
10/11/23	2 nd				• Genetics species & ecosystem diversity	
17/11/23	2 nd				• Biogeographically classification of India.	
20/11/23	2 nd				• Value of biodiversity • Consumptive Use, Productive Use, Socioethical, Aesthetic & opt in values.	

LESSON NOTE

Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
9	10	11	12	13	14
	• Definition of Biodiversity.				
	• Genetics species & ecosystem diversity				
	• Biogeographically classification of India.				
	• Value of biodiversity • Consumptive Use, Productive Use, Socioethical, Aesthetic & opt in values.				

TEACHERS

Date	Week	Class	Subject	Topic (Concept)	Sub-Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be used
21/11/23	9 th	1 st				• Biodiversity at global, national & local level	
23/11/23	9 th	2 nd				• Threats to biodiversity Habitates loss.	
24/11/23	9 th	3 rd				• Poaching of wild life.	
28/11/23	9 th	4 th				• Human-wildlife conflicts.	

LESSON NOTE

Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
9	10	11	12	13	14
	• Biodiversity at global, national & local level.				
	• Threats to biodiversity Habitates loss.				
	• Poaching of wild life.				
	• Human-wildlife conflicts.				

TEACHERS

Date	Week	Class	Subject	Topic (Concept)	Sub-Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be used
28/11/23	10th	1st	1st	Environment and Pollution	Definition, causes, effects, control measures of	- Air Pollution - Water Pollution	
29/11/23	11th	2nd	2nd	Environment and Pollution	Definition, causes, effects, control measures of	- Soil Pollution - Marine Pollution	
30/11/23	12th	3rd	3rd	Environment and Pollution	Definition, causes, effects, control measures of	Noise Pollution	
20/11/23	13th	4th	4th	Environment and Pollution	Definition, causes, effects, control measures of	- Thermal Pollution - Nuclear Pollution	

LESSON NOTE

Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
9	10	11	12	13	14
- Effect - Cause, Identification - Prevention of Noise Pollution	- Air Pollution - Water Pollution				
- Effect - Cause, Identification - Prevention of Noise Pollution	- Soil Pollution - Marine Pollution				
- Effect - Cause, Identification - Prevention of Noise Pollution	- Thermal Pollution - Nuclear Pollution				

LESSON NOTE

Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
9	10	11	12	13	14
What are the causes of air pollution? What are the effects of air pollution? What are the measures to control air pollution?	• Causes, effects & control measures of air pollution	11/12/23	12/12/23	13/12/23	14/12/23
What are the causes of water pollution? What are the effects of water pollution? What are the measures to control water pollution?	• Role of an individual in prevention of pollution	11/12/23	12/12/23	13/12/23	14/12/23
What are the causes of soil pollution? What are the effects of soil pollution? What are the measures to control soil pollution?	• Flavour, fragrance, and taste	11/12/23	12/12/23	13/12/23	14/12/23
What are the causes of noise pollution? What are the effects of noise pollution? What are the measures to control noise pollution?	• Cytosol & lysosomes	11/12/23	12/12/23	13/12/23	14/12/23

TEACHERS

Date	Week	Class	Subject	Topic (Concept)	Sub-Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be used
07/12/20	1 st	1 st		Social issues & the Environment	From Unsustainable to Sustainable development	Urban Problem related to energy.	
07/16/20	2 nd	2 nd				Water conservation rainwater harvesting watershed management.	
08/01/20	3 rd	3 rd				Resettlement & rehabilitation of people its problems & concerns.	
08/12/20	4 th	4 th				Environmental Ethic. Issue & Possible Soln.	

LESSON NOTE

Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
9	10	11	12	13	14
	Urban Problem related to energy.		<i>[Signature]</i> 06/11/20	<i>[Signature]</i> 06/11/20	
	Water conservation rain water harvesting.		<i>[Signature]</i> 06/11/20	<i>[Signature]</i> 06/11/20	
	Resettlement & rehabilitation of people its problems & concerns		<i>[Signature]</i> 06/11/20	<i>[Signature]</i> 06/11/20	
	Environmental ethic issue & possible soln		<i>[Signature]</i> 06/11/20	<i>[Signature]</i> 06/11/20	

Date	Work	Class	Subject	Topic (Concept)	Sub-Topic	Learning Activities to be taken up	TLM to be Used
11/11/23	1st	1st	1st	1st	1st	Climate change, Global warming, Acid rain, ozone layer depletion, nuclear accidents & nuclear case studies.	
11/12/23	2nd	2nd	2nd	2nd	2nd	Air Act.	
11/12/23	2nd	2nd	2nd	2nd	2nd	Water Act.	
11/14/23	4th	4th	4th	4th	4th	Public Awareness.	

LESSON NOTE

Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
9	10	11	12	13	14
Climate change, Global warming, Acid rain, ozone layer depletion, nuclear accidents & nuclear case studies.	Climate change, Global warming, Acid rain, ozone layer depletion, nuclear accidents & nuclear case studies.				
Air Act.	Air Act.				
Water Act.	Water Act.				
Public Awareness.	Public Awareness.				

TEACHERS

Date	Class	Subject	Topic (Concept)	Sub-Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be used
1	2	3	4	5	6	7
14th	1st		Human Population & the environment		• Population growth & variation among nations.	
	2nd				• Population explosion family welfare program.	
	3rd				• Environment & human health.	
	4th				• Case studies.	

LESSON NOTE

Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
9	10	11	12	13	14
What are the factors affecting population growth?					
How does population growth affect the environment?					
What are the consequences of population explosion?					
How can we control population growth?					

TEACHERS

Date	Class	Subject	Topic (Concept)	Sub-Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be used
1	2	3	4	5	6	7
1 st	1 st				• Human Rights	
2 nd	2 nd				• Value education	
3 rd	3 rd				• Role of IT in environment	
4 th	4 th				• Environment & Health	

LESSON NOTE

Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
9	10	11	12	13	14