### Summary of Lesson Plan of Environmental Sciences (Value Added Course )

Name of College: Pt. Neki Ram Sharma Government College, Rohtak

Academic Session 2025 - 26

**Semester: Odd** 

Name of Asstt./Ass. Prof : Dr. Priyanka Shandilya ( HOD EVS)

Class: B.A. Pass, B.A. Hons, B.Sc. Pass & Hons, B.COM

Name of Subject: Environmental Sciences

Month (August)	01 st August 2025 to 18	01 st August 2025 to 18th November 2025	
Week 1 4th −9th August  Week 2 11th −16th August  Week 3 2th August  Week 1 Dist −06t September  Week 1 Dist −06t September  Week 2  Sunday  Week 3  Sunday  Week 4  Week 4  2th −2 th August  Sunday  Week 4  Sunday  Week 1  Sunday  Week 4  Sunday  Week 4  Sunday  Week 4  Sunday  Week 1  Sunday  Week 4  Sunday  Week 4  Sunday  Week 4  Sunday  Week 1  Sunday  Week 4  Sunday  Week 3  Sunday  Week 1  Sunday  Week 1  Sunday  Week 1  Sunday  Week 3  Sunday  Week 3  Sunday  Week 1  Oth −11th October  Encapagered and endemic species of India. Conservation of biodiversity:In-situ and Ex Situ conservation of biodiversity. Sinday  Week 3  2th October  Week 3  2th October  Sunday  Week 3  2th October  Sunday  Week 4  Soil pollution, Marine pollution, Noise pollution, Thermal pollution, nuclear hazards			
Week 2 14th August 17th September 17th October 17th Oc	Week 1 4 <sup>th</sup> –9 <sup>th</sup> August	Unit-1 Introduction to Environmental Studies: Multidisciplinary nature of environmental studies. Scope	
11th - 16th August   Sunday   Ecosystems: Grassland ecosystem c. Desert ecosystem d. Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)	10 <sup>th</sup> August	Sunday	
17th August   Sunday   Ecosystems: Grassland ecosystem c. Desert ecosystem d. Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)	Week 2	Unit-1 Societal issues and environment, human population and environment.	
Rih - 23th August   Ecosystems: Grassland ecosystem c. Desert ecosystem d. Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)    24th August   Sunday   Unit-2 Natural resources and associated problems. Forest Resources, Water resources, conflicts over water, dams-benefits and problems.    Month (September   Mineral Resources – use & exploitation, Food resources	11th –16th August		
(ponds, streams, lakes, rivers, oceans, estuaries)  24th August Sunday 25th -30 th August Unit-2 Natural resources and associated problems. Forest Resources, Water resources, conflicts over water, dams-benefits and problems.  Month (September)  Mineral Resources – use & exploitation, Food resources  10th - 10th September  Sunday  Week 2  8th - 13th September  Week 3  15th - 20 th September  Unit-3 Biodiversity and its conservation, Definition: genetic, species and ecosystem diversity.  15th - 20 th September  Week 4  22 th - 27th September  Week 4  22 th - 27th September  Week 1  10th October  Week 1  10th October  Unit-3 Diodiversity, Biodiversity at global, National and local levels. Hot Sports of biodiversity. Threats to biodiversity.  Month (October)  Week 2  10th October  Sunday  Week 2  10th October  Sunday  Week 3  12th October  10th October  Sunday  Week 3  23th - 25th October  Sunday  Week 3  23th - 25th October  Sunday  Week 4  Soil pollution, Marine pollution, Noise pollution, Thermal pollution, nuclear hazards	17 <sup>th</sup> August	Sunday	
24th August   25th - 30 th August   25th October   30th August   30th - 32th October   30th August   30th - 32th October   30th August   30th	18th –23th August	Ecosystems: Grassland ecosystem c. Desert ecosystem d. Aquatic ecosystems	
Unit-2 Natural resources and associated problems. Forest Resources, Water resources, conflicts over water, dams-benefits and problems.  Month (September)  Week 1 Olst - O6st September  7th September  Sunday  Week 2 Benergy resources, Land resources, soil erosion and desertification. Equitable Use of resources for sustainable lifestyles  14th September  Unit-3 Biodiversity and its conservation, Definition: genetic, species and ecosystem diversity.  Biogeographical classification of India.  Unit-3 Biodiversity, Biodiversity at global, National and local levels. Hot Sports of biodiversity. Threats to biodiversity.  Month (October)  Week 1 O6th-11th October  Sunday  Week 2 Office of the Colober of the Colo	_	(ponds, streams, lakes, rivers, oceans, estuaries)	
water, dams-benefits and problems.    Month (September)	24th August	Sunday	
Mineral Resources – use & exploitation, Food resources  7th September  Week 2  8th – 13th September  14th September  Unit-3 Biodiversity and its conservation, Definition: genetic, species and ecosystem diversity.  15th- 20 th September  Value of biodiversity, Biodiversity at global, National and local levels. Hot Sports of biodiversity.  Month (October)  Week 1  12th October  Week 2  14th – 22th October  Sunday  Week 2  14th – 22th October  Week 3  12th – 25th October  Sunday  Week 3  23th – 25th October  Sunday  Week 4  22th – 25th October  Sunday  Week 3  23th – 25th October  Sunday  Week 4  Soil pollution, Marine pollution, Noise pollution, Thermal pollution, nuclear hazards	25 <sup>th</sup> -30 <sup>th</sup> August	•	
Olst - O6st September   Sunday		Month (September)	
Week 2 8th – 13th September 14th September 2uit-3 Biodiversity and its conservation, Definition: genetic, species and ecosystem diversity. Biogeographical classification of India. 2uit-27th September 2uth – 27th September 2uth – 27th September 3unday 3uth – 27th September 3unday 4uth – 27th September 3unday 4uth – 27th September 3unday 4uth – 27th September 5unday 4uth – 27th October 4uth – 21th October 5uth – 22th October 5uth – 22th October 5unday 5unday 5unday 5unday 5unday 5unday 6uth – 22th October 6uth – 21th October 6uth – 22th October 6uth	Week 1 01 <sup>st</sup> -06 <sup>st</sup> September	Mineral Resources – use & exploitation, Food resources	
Sunday	7 <sup>th</sup> September		
14th September   Sunday	Week 2		
Week 3 15th- 20 th September 21st September Week 4 22 th - 27th September Week 4 20 th - 27th September Week 1 16th- 10th October 12th October Week 2 14th - 22th October 19th September Week 3 23th - 25th October 26th October Week 3 23th - 25th October 26th October Week 4 20 th September Walue of biodiversity, Biodiversity at global, National and local levels. Hot Sports of biodiversity.  Month (October) Endangered and endemic species of India. Conservation of biodiversity:In-situ and Ex Situ conservation of biodiversity.  12th October Sunday Week 2 19th September Sunday Week 3 23th - 25th October 26th October Sounday Week 4 Soil pollution, Marine pollution, Noise pollution, Thermal pollution, nuclear hazards		sustainable lifestyles	
Biogeographical classification of India.	14 <sup>th</sup> September		
21st September Week 4 22 th – 27th September Value of biodiversity, Biodiversity at global, National and local levels. Hot Sports of biodiversity.  Threats to biodiversity.  Month (October)  Week 1 06th – 11th October Endangered and endemic species of India. Conservation of biodiversity:In-situ and Ex Situ conservation of biodiversity.  12th October Sunday  Week 2 14th – 22th October 19th September Sunday  Week 3 23th – 25th October 26th October 26th October Sunday  Week 4 Soil pollution, Marine pollution, Noise pollution, Thermal pollution, nuclear hazards	Week 3		
Week 4 22 th – 27th September  Value of biodiversity, Biodiversity at global, National and local levels. Hot Sports of biodiversity.  Threats to biodiversity.  Month (October)  Week 1 06th – 11th October  Endangered and endemic species of India. Conservation of biodiversity:In-situ and Ex Situ conservation of biodiversity.  12th October  Sunday  Week 2 14th – 22th October  19th September  Sunday  Week 3 23th – 25th October  26th October  Sunday  Week 4  Soil pollution, Marine pollution, Noise pollution, Thermal pollution, nuclear hazards			
Value of biodiversity, Biodiversity at global, National and local levels. Hot Sports of biodiversity.  Month (October)  Week 1  06 <sup>th</sup> – 11 <sup>th</sup> October  Endangered and endemic species of India. Conservation of biodiversity:In-situ and Ex Situ conservation of biodiversity.  12 <sup>th</sup> October  Week 2  14 <sup>th</sup> – 22 <sup>th</sup> October  19 <sup>th</sup> September  Week 3  23 <sup>th</sup> – 25 <sup>th</sup> October  26 <sup>th</sup> October  Sunday  Week 4  Soil pollution, Marine pollution, Noise pollution, Thermal pollution, nuclear hazards	21st September	Sunday	
Week 1 06 <sup>th</sup> – 11 <sup>th</sup> October  Endangered and endemic species of India. Conservation of biodiversity:In-situ and Ex Situ conservation of biodiversity.  Situ conservation of biodiversity:In-situ and Ex Situ conservation of biodiversity.	Week 4 22 th – 27th September		
Situ conservation of biodiversity.  12 <sup>th</sup> October  Sunday  Week 2  14 <sup>th</sup> – 22 <sup>th</sup> October  19 <sup>th</sup> September  Sunday  Week 3  23 <sup>th</sup> – 25 <sup>th</sup> October  26 <sup>th</sup> October  Sunday  Week 4  Soil pollution, Marine pollution, Noise pollution, Thermal pollution, nuclear hazards		Month (October)	
Week 2 14 th – 22th October 19th September  Sunday  Week 3 23th – 25th October 26th October 26th October  Week 4  Soil pollution, Marine pollution, Noise pollution, Thermal pollution, nuclear hazards	Week 1 06 <sup>th</sup> – 11 <sup>th</sup> October	•	
Week 2 14 <sup>th</sup> – 22 <sup>th</sup> October 19 <sup>th</sup> September  Sunday  Week 3 23 <sup>th</sup> – 25 <sup>th</sup> October 26 <sup>th</sup> October  Sunday  Week 4  Diwali Holidays  Sunday  Sunday  Value of the control measures of -: Air pollution, Water pollution.  Sunday  Soil pollution, Marine pollution, Noise pollution, Thermal pollution, nuclear hazards	12 <sup>th</sup> October	Sunday	
14 <sup>th</sup> – 22 <sup>th</sup> October 19 <sup>th</sup> September  Week 3 23 <sup>th</sup> – 25 <sup>th</sup> October 26 <sup>th</sup> October  Week 4  Soil pollution, Marine pollution, Noise pollution, Thermal pollution, nuclear hazards	Week 2		
19 <sup>th</sup> September  Week 3  23 <sup>th</sup> - 25 <sup>th</sup> October  26 <sup>th</sup> October  Week 4  Soil pollution, Marine pollution, Noise pollution, Thermal pollution, nuclear hazards	14 <sup>th</sup> – 22 <sup>th</sup> October		
23 <sup>th</sup> – 25 <sup>th</sup> October 26 <sup>th</sup> October Sunday Week 4 Soil pollution, Marine pollution, Noise pollution, Thermal pollution, nuclear hazards	19th September	Sunday	
Week 4 Soil pollution, Marine pollution, Noise pollution, Thermal pollution, nuclear hazards	Week 3 23 <sup>th</sup> – 25 <sup>th</sup> October	Unit-4 Definition, Cause, effects and control measures of -: Air pollution , Water pollution.	
	26th October	Sunday	
	Week 4 27 <sup>th</sup> – 31 <sup>th</sup> October	Soil pollution, Marine pollution, Noise pollution, Thermal pollution, nuclear hazards	
Month (November)		Month (November)	

### Summary of Lesson Plan of Environmental Sciences (Value Added Course )

Name of College: Pt. Neki Ram Sharma Government College, Rohtak

**Academic Session 2025 - 26** 

**Semester: Odd** 

Name of Asstt./Ass. Prof : Dr. Priyanka Shandilya (HOD EVS)

Class: B.A. Pass, B.A. Hons, B.Sc. Pass & Hons, B.COM

Name of Subject: Environmental Sciences

Week 1 03 <sup>th</sup> - 08 <sup>th</sup> November	Solid waste, Disaster management: floods, earthquake, cyclone and landslides. Climate change-green house gases, acid rain and global warming.
09 th November	Sunday
Week 2 10 <sup>th</sup> – 18 <sup>th</sup> November	Assessment of Students (Quiz/Group discussion/Debate )
19-11-2025 to 31-12- 2025	MDU Examination

# **Summary of Lesson Plan of Solid Waste Management (Multidisciplinary Course)**

Name of College: Pt. Neki Ram Sharma Government College, Rohtak

Academic Session 2025 - 26

**Semester: Odd** 

Name of Asstt./Ass. Prof : Dr. Priyanka Shandilya ( HOD EVS) Class: B.SC. Life Sciences, Physical Sciences, Math H 3<sup>Rd</sup> Semester

Name of Subject: EVS Solid Waste Management (MDC)

01 st August 2025 to 19	Wh November 2025	
01 st August 2025 to 18th November 2025		
XX7 1 4	Month (August)	
Week 1 4 <sup>th</sup> –9 <sup>th</sup> August	Unit-1 Sources, classification & composition of solid wastes: E-Waste	
10 <sup>th</sup> August	Sunday	
Week 2	Biomedical waste, Hazardous waste, Construction and demolition waste	
11th –16th August		
17 <sup>th</sup> August	Sunday	
18 <sup>th</sup> –23 <sup>th</sup> August	plastic waste, Waste minimization technologies	
24 <sup>th</sup> August	Sunday	
25 <sup>th</sup> -30 <sup>th</sup> August	Effect of waste on the environment, plants and human health.	
S	Month (September)	
Week 1	Unit -2 Standards of water quality in relation to public health - Potable and non-potable Water,	
01st -06st September	Principal forms of Water Pollutants and their sources.	
7 <sup>th</sup> September	Sunday	
Week 2	Sewage and waste water treatments systems,	
8 <sup>th</sup> – 13 <sup>th</sup> September		
14 <sup>th</sup> September	Sunday	
Week 3	Primary, secondary, tertiary and advance treatment, Gobar Dhan scheme 2018.	
15 <sup>th</sup> - 20 <sup>th</sup> September		
21st September	Sunday	
Week 4		
22 <sup>th</sup> – 27 <sup>th</sup> September	Solid Waste management methods:5-R's and there benefits, Swachh Bharat Mission 2014	
	Month (Octoberr)	
Week 1	Solid Waste Management Rules, 2016, The Construction and Demolition Waste Management Rules,	
06 <sup>th</sup> – 11 <sup>th</sup> October	2016	
12 <sup>th</sup> October	Sunday	
Week 2	Diwali Holidays	
14 <sup>th</sup> – 22 <sup>th</sup> October		
19th September	Sunday	
Week 3	The e-waste (Management) Rules 2016, The Bio-Medical Waste Management Rules, 2016	
23th – 25th October		
26 <sup>th</sup> October	Sunday	
Week 4	Hazardous Waste Management & Handling rules, 1989.	
27 <sup>th</sup> – 31 <sup>th</sup> October		
	Month (November)	
Week 1	Plastic Waste Management Rules 2016	
03 <sup>th</sup> – 08 <sup>th</sup> November		
09 th November	Sunday	

# **Summary of Lesson Plan of Solid Waste Management (Multidisciplinary Course)**

Name of College: Pt. Neki Ram Sharma Government College, Rohtak

**Academic Session 2025 - 26** 

**Semester: Odd** 

Name of Asstt./Ass. Prof : Dr. Priyanka Shandilya ( HOD EVS) Class: B.SC. Life Sciences, Physical Sciences, Math H  $3^{\rm Rd}$  Semester

Name of Subject: EVS Solid Waste Management (MDC)

Week 2 10 <sup>th</sup> – 18 <sup>th</sup> November	Assessment of Students (Quiz/Group discussion/Debate )
19-11-2025 to 31-12- 2025	MDU Examination

# **Summary of Lesson Plan of Disaster Management (Multidisciplinary Course)**

Name of College: Pt. Neki Ram Sharma Government College, Rohtak

Academic Session 2025 - 26

Semester: Odd

Name of Asstt./Ass. Prof : Dr. Priyanka Shandilya ( HOD EVS)

Class: B.SC. Life Sciences, Physical Sciences, Chemistry H 1st Semester

Name of Subject: EVS Disaster Management (MDC)

01 st August 2025 to 18	01 st August 2025 to 18 <sup>th</sup> November 2025		
01 August 2023 to 10	Month (August)		
Week 1	Unit 1-: Introduction to disaster: Definition, difference between hazard and disaster, understanding		
4 <sup>th</sup> –9 <sup>th</sup> August	natural and manmade disasters		
10 <sup>th</sup> August	Sunday		
Week 2	risk and vulnerability in disaster, Disaster- Causes and phases of disaster, Rapid onset and slow onset		
	disasters		
11 <sup>th</sup> –16 <sup>th</sup> August 17 <sup>th</sup> August	Sunday		
18 <sup>th</sup> –23 <sup>th</sup> August	Nature and responses to geo-hazards, reasons of disaster- population growth, urban expansion, pollution, epidemics, accidents.		
24 <sup>th</sup> August	Sunday		
25 <sup>th</sup> -30 <sup>th</sup> August	Disaster profile of India.		
	Month (September)		
Week 1 01 <sup>st</sup> -06 <sup>st</sup> September	Unit 2-:Earthquake- causes, types and impacts; Floods-types and impacts		
7 <sup>th</sup> September	Sunday		
Week 2	landslides-causes and effects; drought: different types of droughts- meteorological, agricultural,		
8 <sup>th</sup> – 13 <sup>th</sup> September	hydrological and effects;		
14 <sup>th</sup> September	Sunday		
Week 3	cyclone and hurricanes; tsunamis		
15 <sup>th</sup> - 20 <sup>th</sup> September	Com Jose		
21 <sup>st</sup> September	Sunday		
Week 4 22 <sup>th</sup> – 27 <sup>th</sup> September	CBRN: Chemical disasters, biological disasters, Radiological disaster, Nuclear disasters, Sociological hazards		
	Month (Octoberr)		
Week 1 06 <sup>th</sup> – 11 <sup>th</sup> October	Unit 3-: Disaster Preparedness and mitigation: Definition, Disaster management cycle of- earthquake, landslide		
12 <sup>th</sup> October	Sunday		
Week 2	Diwali Holidays		
14 <sup>th</sup> – 22 <sup>th</sup> October			
19 <sup>th</sup> September	Sunday		
Week 3 23 <sup>th</sup> - 25 <sup>th</sup> October	Disaster management cycle of -: flood, drought, Cyclone. Disaster Information		
26 <sup>th</sup> October	Sunday		
Week 4 27 <sup>th</sup> – 31 <sup>th</sup> October	Disaster Response: Disaster Rehabilitation, Reconstruction and Recovery.		
	Month (November)		

# **Summary of Lesson Plan of Disaster Management (Multidisciplinary Course)**

Name of College: Pt. Neki Ram Sharma Government College, Rohtak

Academic Session 2025 - 26

Semester: Odd

Name of Asstt./Ass. Prof : Dr. Priyanka Shandilya (HOD EVS)

Class: B.SC. Life Sciences, Physical Sciences, Chemistry H 1st Semester

Name of Subject: EVS Disaster Management (MDC)

Week 1 03 <sup>th</sup> -08 <sup>th</sup> November	Role of National Disaster Management Authority (NDMA).
09 th November	Sunday
Week 2 10 <sup>th</sup> – 18 <sup>th</sup> November	Assessment of Students (Quiz/Group discussion/Debate )
19-11-2025 to 31-12- 2025	MDU Examination