

H.L.G. GOVT. COLLEGE TAURU, DISTT. NUH (HRY.)

P.G. DEPARTMENT OF GEOGRAPHY

Lesson Plan for the Session 2025-26 Odd Semester (under NEP-2020)

Name of Teacher: **Dr. Rakesh Kumar**, Extension Lecturer in Geography

Learning Outcomes	➤ Students will be able to understand the complex environmental issues, sources and fate of different environmental pollutants along with their effects on environment. ➤ They will be able to learn the standard methods of sampling, analysis and standards set up for different environmental pollutants. ➤ To understand the concept of global climate change, its causes, impacts, adaptation and mitigation strategies ➤ They will be able to learn the role of international and national organizations in mitigating climate change. ➤ To understand the tools to study climate change and importance of carbon trading
-------------------	---

M.A. GEOGRAPHY 1st SEM.

Paper: Theory Paper- Pollution and Climate Change (MDC)

Sr	Class & Paper	Month/ week	Topic/Chapters to be Covered	Academic activities to be organized
1	Pollution and Climate Change (MDC-01) Paper Code: MDC-01 (Theory) Course Id: 241/EVS/MD101	August 2025	<u>Air and noise Pollution</u> ➤ Sources, Classification and properties of air pollutants ➤ Behaviour and fate of air pollutants ➤ Effects of air pollution on human health & materials ➤ Sampling and analysis of air pollutants ➤ SO_x, NO_x, CO, Ozone, Hydrocarbons and particulate matter, ➤ Air quality standards ➤ Noise pollutions : Definition, sources and effects; noise-monitoring –sound level meter	Assignment and class test
2	Pollution and Climate Change (MDC-01) Paper Code: MDC-01 (Theory) Course Id: 241/EVS/MD101	Sept. 2025	<u>Water and Soil Pollution</u> ➤ Sources, consequences, ➤ Characteristics of domestic, industrial and agricultural wastes, ➤ their effects on water bodies; ➤ thermal pollution, ➤ Marine Pollution a general account, ➤ water quality standards, ➤ Soil Pollution from use of fertilizers, pesticides, heavy metals, waste disposal, industrial effluents and surfactants, ➤ Detrimental effects of soil pollutants, ➤ Remedial measures for soil pollution	Assignment and class test

3	Pollution and Climate Change (MDC-01) Paper Code: MDC-01 (Theory) Course Id: 241/EVS/MD101	Oct. 2025	<u>Global Climate Change</u> ➤ Greenhouse effect, trends, ➤ radiative forcing , ➤ warming potential of gases, CO₂, fertilization effect on plants; ➤ potential impacts of global warming- polar ice caps and melting of glaciers, ➤ Sea level increase, ➤ Weather extreme, ecosystems, ➤ human health , ➤ coral reef bleaching	Assignment and class test
4	Pollution and Climate Change (MDC-01) Paper Code: MDC-01 (Theory) Course Id: 241/EVS/MD101	Nov. 2025	<u>Migration strategies for Global Warming</u> ➤ Biological carbon sequestration, ➤ carbon sequestration in geological formations; ➤ role of forests in soil carbon storage, ➤ Kyoto protocol; ➤ carbon trading, ➤ Global environmental change programmers, IPCC; Indian initiative for mitigating global climate change.	Assignment and class test
5	Pollution and Climate Change (MDC-01) Paper Code: MDC-01 (Theory) Course Id: 241/EVS/MD101	Dec 2025	➤ Revision ➤ Assignment and class test	Assignment and class test


 Principal
 H.L.G. Govt. College,
 Tauru, Distt. Nuh (HR)


 (Signature)
Dr. Rakesh Kumar,
 Extension Lecturer
 P.G. Deptt. of Geography
 H.L.G. G.C. Tauru (Nuh)