## Environmental Air Pollution - Video course



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Topics	No. o	
Introduction and Scope	01	INFILL
<b>Environmental Systems:</b> Source, Pollutant Transport and Impact on Receptor	02	http://nptel.ac.in
<b>Environmental Quality and Pollution:</b> Air-Water quality parameters, units for expression; beneficial uses of water; water quality criteria and standards, air quality criteria, health effects and Indian national air quality standards (including methods for standard setting)	06	Civil Engineering
Air Pollution Sources and Assessment of Air Pollution Load- preparation of emission inventory, its presentation (data base) and interpretation	04	
Disposal, Fate and Transport of Waste:  (i) pollutant dispersion in lakes, reservoirs, rivers, ground water, disposal and stream quality standards, (ii) air pollution dispersion, transportation and chemical transformation, meteorological parameters, simple box and gaussian type model for point, area and line (vehicular sources) (iii) Tutorials and simulated examples	14	Coordinators:  Prof. Mukesh Sharma Department of Civil EngineeringIIT Kanpur
Solid and Hazardous Waste Management: generation, collection, classification, processing and disposal, composting, land filling, incineration, hazardous waste definition and disposal	03	
Air Pollution Control Particulate removal mechanism and processes; reduction of gaseous pollution dry and wet scrubbing	03	
Noise Pollution: causes, measurements, prevention and control	02	
<b>Environmental policies and regulations;</b> water act, water cess act air act, environmental protection act, hazardous and biomedical waste rules, public liability insurance act, EIA notification, and regulatory mechanism	04	
<b>Environmental Impact Assessment (EIA):</b> Assessment Procedure – Identification, prediction and evaluation; EIA methodologies; EIA statement and report preparation; examples and simulated case studies	04	

A joint venture by IISc and IITs, funded by MHRD, Govt of India

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