

PGDAV College (Evening)

(University of Delhi)

DEPARTMENT OF ENVIRONMENTAL STUDIES

Lesson Plan

Paper: GE 1 (GE-EVS-6): Wetlands for Industries and Environment

Week	Topics to be covered
1	Unit-1: Ecology and Socio-economy of wetlands Wetland types and Functions; Ramsar convention, vegetation type and dynamics; Soil types; Geology and geomorphology.
2	Unit-1 (Contd.): Hydrological regimes: Water quality and balance, Sedimentation; Indicators; Biodiversity and its significance.
3	Unit-1 (Contd.): Ecological and economic benefits: Provisioning, regulating, cultural and supporting services.
4	Unit-1 (Contd.): Socio-economic and cultural diversity in human society living in and around wetlands.
5	Unit-1(Contd.): Income and employment generation by wetlands; Community resource use and management practices.
6	Unit-2: Wetlands and water treatments Principles and efficacy of natural wetlands; Economics of treatments; Case studies from India and other countries.
7	Unit-2 (Contd.): Types of constructed wetlands and their principles; Potential of constructed wet lands for treating different types of waste waters (agriculture, domestic, Industries, Municipal, run off and sludge).
8	Unit-2(Contd.): Operations and maintenance; case studies from India and other countries.
9	Unit-3: Wetlands management Delineation and mapping; Features and associated factors; Monitoring ecosystem health; Major threats.

10	Unit-3 (Contd): Setting up goals and objectives; Institutional arrangements, wetlands ecosystem services maps.
11	Unit-3 (Contd): Ecosystem services trades-offs; Landscape-scale management; Interventions to sustain biodiversity and ecosystem services.
12	Unit-3 (Contd): Mobilizing community participation and generating finance; cross-sectoral integration.
13	Unit-3 (Contd): Integration of wetland conservation in development plans, acts and rules; adaptive management.
14-15	Field Work/ Project Work/Revision/Remedial Classes/ Documentaries etc.