

Part-I

SYLLABUS FOR ENVIRONMENTAL STUDIES AND HUMAN RIGHTS FOR UNDER GRADUATE

(paper code - 0828)

M.M. 75

UNIT -I THE MULTI DISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES:

Definition, Scope and Importance

Natural Resources:

Renewable and Nonrenewable Resources:

Natural resources and associated problems

- (a) Forest resources: Use and over-exploitation, deforestation, Timber extraction, mining, dams and their effects on forests and tribal people and relevant forest Act.
- (b) Water resources: Use and over-utilization of surface and ground water, floods drought, conflicts over water, dams benefits and problems and relevant Act.
- (c) Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources.
- (d) Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity.
- (e) Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources.
- (f) Land resources: Land as a resource, land degradation, man induced landslides soil erosion and desertification.

UNIT-II ECOSYSTEM

(12 Lecturer)

(a) Concept, Structure and Function of an ecosystem

- Producers, consumers and decomposers.
- Energy flow in the ecosystem
- Ecological succession.
- Food chains, food webs and ecological pyramids.
- Introduction, Types, Characteristic Features, Structure and Function of Forest, Grass, Desert and Aquatic Ecosystem.

Signature
11.11.13

phel
11-11-13²

(a) Biodiversity and its Conservation

- Introduction - Definition: genetic, species and ecosystem diversity.
- Bio-geographical classification of India.
- Value of biodiversity: consumptive use, productive use, social, ethics, aesthetic and option values.
- Biodiversity at global, National and local levels.
- India as mega-diversity nation.
- Hot spots of biodiversity
- Threats to biodiversity: habitat loss, poaching of wildlife, man-wild life conflict.
- Endangered and endemic species of India.
- Conservation of biodiversity: In situ and Ex-situ conservation of biodiversity.

UNIT-III ENVIRONMENTAL POLLUTION

(12 Lecturer)

Definition

(a) Causes, effect and control measures of -

- Air water, soil, marine, noise, nuclear pollution and Human population.
- Solid waste management: Causes, effects and control measures of urban and industrial wastes.
- Role of an individual in prevention of pollution.
- Disaster Management: floods, earthquake, cyclone and landslides.

(b) Environmental Management

(12 Lecturer)

- From Unsustainable to sustainable development.
- Urban problems related to energy.
- Water conservation, rain water harvesting, watershed management.
- Resettlement and rehabilitation of people, its problems and concerns.
- Environmental ethics: Issues and possible solutions.
- Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust.

ad/npl
11.11.13

ad/npl
11-11-13³

Wasteland reclamation.

- Environment Protection Act: Issues involved in - enforcement of environmental legislation.
- Role of Information Technology in Environment and Human Health.

UNIT-IV

General background and historical perspective- Historical development and concept of Human Rights, Meaning and definition of Human Rights, Kind and Classification of Human Rights.

Protection of Human Rights under the UNO Charter, Protection of Human Rights under the Universal Declaration of Human Rights, 1948

Convention on the Elimination of all Forms of Discrimination against women

Convention on the Rights of the Child, 1989

UNIT-V

Impact of Human Rights norms in India, Human Rights under the Constitution of India, Fundamental Rights under the Constitution of India, Directive Principles of State Policy under the Constitution of India, Enforcement of Human Rights in India

Protection of Human Rights under the Human Rights Act, 1993 - National Human Rights Commission, State Human Rights Commission and Human Rights court in India.

Fundamental Duties under the Constitution of India

Reference/Books Recommended:

1. SK Kapoor- Human rights under International Law and Indian Law
2. HO Agrawal- Internation Law and Human Rights
3. एस. के. कपूर - मानव अधिकार
4. जे. एन. पान्डेय - भारत का संविधान
5. एम. डी. चतुर्वेदी - भारत का संविधान
6. J. N. Pandey - Constitutional Law of India
7. Agarwal K.C. 2001 Environmental Biology, Nidi Pub. Ltd. Bikaner
8. Bharucha Erach, the Biodiversity of India, Mapin Pub. Pvt. Ltd. Ahmedabad 380013, India, Email: mapin@icenet.net(R)

Adgupte
11.11.13

Prfel
11-11-13 4

9. Bruinner R.C., 1989, Hazardous Waste Incineration, Mc Graw Hill Inc. 480p
10. Clark R.S. Marine Pollution, Clanderson Press Oxford (TB)
11. Cuningham, W.P. Cooper, T.H. Gorhani, E&Hepworth, M.T. 200
12. Dr. A.K. -Environmental Chemistry, Wiley Eastern Ltd.
13. Down to Earth, Center for Science and Environment (R)
14. Gloick, H.P. 1993 Water in crisis, Pacific Institute for studies in Deve, Environment & Security, Stockholm Eng. Institute, Oxford University, Press.m 473p
15. Hawkins R.E. Encyclopedia of Indian Natural History, Bombay Natural History Society, Mumbai (R)
16. Heywood, V.H. & Watson, R.T. 1995 Global Biodiversity Assessment, Cambridge Uni. Press 1140p
17. Jadhav H. & Bhosale, V.H. 1995, Environmental Protection and Law. Himalaya pub. House, Delhi 284p
18. Mckinney M.L. & School R.M. 1996, Environmental Science systems & Solutions, web enhanced edition, 639p
19. Mhaskar A.K. Matter Hazardous, Techno-Science Publication (TB)
20. Miller T.G. Jr. Environment Science, Wadsworth Publishing Co. (TB)
21. Odum, E.P. 1971, Fundamentals of Ecology, W.B. Saunders Co. USA, 574p
22. Rao M.N. & Datta, A.K. 1987, Waste water treatment. Oxford & IBH Pub. Co. Pvt. Ltd. 345p
23. Sharma B.K. 2001, Environmental Chemistry, Goel Pub. House, Meerut
24. Survey of the Environment, The Hidu (M)
25. Townsend C. Harper J. and Michael Begon, Essentials of Ecology, Blackwell Science (TB)
26. Trivedi R.K. Handbook of Environment Laws, Rules, Guidelines, Compliances and Standards, Vol I and II, Environment Media (R)
27. Trivedi R.K. and P.K. Goel, Introduction to air pollution, Techno-Science publication (TB)
28. Wanger K.D. 1998, Environmental Management. W.B. Saunders Co. Philadelphia, USA 499p

[Signature]
11-11-13

[Signature]
11-11-13⁵