

## ENVIRONMENTAL STUDIES AND HUMAN RIGHTS

**Course Code:**

CORE THEORY-8
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**Teaching hrs: 4hrs /week**

**Total hrs :54hrs**

**Credit :3**

### **Objectives**

To enable the students

- To create awareness of consumer rights and the need for consumer education
- To recognize the importance of waste management.

### **Module : 1 Basic concepts of Environment**

Environment-definition , components. Ecosystem- definition, structure, types-terrestrial ecosystem , fresh water ecosystem , marine ecosystem; Energy flow in the ecosystem, Food chain and Ecological pyramids-pyramid of numbers, pyramid of biomass , pyramid of energy.

### **Module 2 : Biodiversity and its conservation**

Introduction, genetics, species and ecosystem diversity; Values of biodiversity , threats of biodiversity- habitat loss, poaching of wildlife, man-wildlife conflict. Loss of biodiversity-endangered and endemic species of India. Conservation of biodiversity- ex-situ and in-situ conservation.

### **Module 3 : Environmental problems - causes, effects and management.**

Environmental pollution- air, water, soil, marine, noise, thermal and nuclear hazards. Environmental issues- climate change, global warming , acid rain, ozone layer depletion , deforestation, drought, scarcity of water, solid waste- sources, types, effects and management techniques; water management techniques- water harvesting, drip irrigation, watershed management, water- wise habits.

### **Module 4: Conservation of natural resources**

Meaning, types-renewable and non- renewable resources. Use and exploitation of forest resources, water resources, mineral resources, food resources, land resources and energy resources. Growing energy needs, energy consumption. Renewable energy sources and devices- Solar energy- solar cooker, photovoltaic water pump, and photovoltaic water heater, photovoltaic domestic and street lights; Wind energy- wind mill; Hydro energy; Bio-energy- bio-gas plant; Geothermal energy and Tidal energy.

### **Module 5: Human Rights**

Unit:1 - Human Rights-An Introduction to Human Rights, Meaning, concept and development –History of Human Rights-Different Generations of Human Rights-Universality of Human Rights- Basic International Human Rights Documents - UDHR,ICCPR,ICESCR.-Value dimensions of Human Rights

Unit :2 - Human Rights and United Nations -Human Rights co-ordination within UN system- Role of UN secretariat- The Economic and Social Council- The Commission Human Rights- The Security Council and Human rights- The Committee on the Elimination of Racial Discrimination- The Committee on the Elimination of Discrimination Against Women- the Committee on Economic, Social and Cultural Rights- The Human Rights Committee- Critical Appraisal of UN Human Rights Regime.

Unit; 3- Human Rights National Perspective-Human Rights in Indian Constitution – Fundamental Rights- The Constitutional Context of Human Rights-directive Principles of State Policy and Human Rights- Human Rights of Women-children –minorities- Prisoners- Science Technology and Human Rights- National Human Rights Commission- State Human Rights Commission- Human Rights Awareness in Education.

## REFERENCES

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4. Miller T.G. Jr., Environmental Science, Wadsworth Publishing Co. (TB)
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7. Rajagopalan. R, Environmental Studies from crisis and cure, Oxford University Press, Published:2016 (TB)
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9. Townsend C., Harper J, and Michael Begon, Essentials of Ecology, Blackwell Science (Ref)
10. Trivedi R.K., Handbook of Environmental Laws, Rules Guidelines, Compliances and Standards, Vol I and II, Enviro Media (Ref)
11. Trivedi R. K. and P.K. Goel, Introduction to air pollution, Techno-Science Publication (Ref)
12. Wanger K.D., 1998 Environmental Management. W.B. Saunders Co. Philadelphia, USA 499p (Ref)
13. (M) Magazine (R) Reference (TB) Textbook
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15. Chatrath, K. J.S., (ed.), Education for Human Rights and Democracy (Shimla: Indian Institute of Advanced Studies, 1998)
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18. Shireesh Pal Singh, Human Rights Education in 21<sup>st</sup> Century, Discovery Publishing House
19. Pvt.Ltd, New Delhi,
20. S.K.Khanna, Children And The Human Rights, Common Wealth Publishers,1998. 2011.
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23. Liberty in Today's Diverse World, New Delhi: Oxford University Press, 2004.

## ENVIRONMENTAL STUDIES AND HUMAN RIGHTS

**Course Code:**

CORE PRACTICAL-8
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**Teaching hrs: 2hrs /week**

**Total hrs :36hrs**

### **Course Content**

#### **Module :1** Energy Conservation

- Visits to organizations/institutions involved with Alternate energy programmes,
- Study of Devices/ Techniques for Conservation of Energy / Renewable Energy Devices (Solar Devices and Biogas)

#### **Module:2** Waste Management

- Study of waste management practices in your house/locality, Development of wealth from waste

#### **Module:3**

- Create a beneficial product from used/old clothes

#### **Module:4**

- Survey of organic foods available in the market.
- Visit to an organic farm

#### **Module:5**

- Make an illustrated chart on rights of women and children in India.