

Value Added Course

Environment : Issues, Sustainability and Values

Course Duration: 32 hours

Course Content :

Unit 1: Basic Concepts : Definition, Nature, Scope, Importance and Components of Environment.

Unit 2: Concept of Sustainability : Sustainable Development- History, Goals and modality), Economy and Environment, Importance and need of Sustainable development, Strategies and practices.

Unit 3 : Sustainable food, energy & forest : Population growth, food safety and security, green and biotech revolution; Bio and fossil fuel and sustainable energy; Challenges of sustainable forest, international regulations.

Unit 3: Environmental Sustainability: Definition, History, Importance, Examples, Issues and Benefits.

Unit 4 : Environmental Issues : Environmental Disasters, Causes and consequences of natural disasters, Climate change as a cause of natural disaster, Management and Policies of natural disaster.

Unit 5: Concept of Environmental Values: Environment and Ethics, Necessity of Ethical Question in the Context of Environment.

Unit 6 : Environmental Ethics: Deep Ecology, Anthropocentrism, Eco-feminism, Environmental Values from the Indian Philosophical Context.

Unit 7 : Global Environmental Politics : Definition and short history of Environmental politics, Environmentalism, addressing and resolving sustainability problems through environmentalism, achievement from environmental politics so far.

Suggested Readings :

1. "Endangered Mammal List". Wildlife Institute of India (WII). Archived from the original on 2007-07-04. Retrieved 2007-08-06.
2. "Extinction Animals (Press Release)". Ministry of Environment and Forests, Government of India. 2012-01-01. Retrieved 2011-09-05.
3. Biodiversity profile for India.
4. Chauhan, B. S. (1 January 2008). Environmental studies. Firewall Media. pp. 107–111. ISBN 978-81-318-0328-8.
5. Colborn T, vom Saal FS, Soto AM. 1993. Developmental effects of endocrine-disrupting chemicals in wildlife and humans. *Env Health Persp* 101(5)378–84.
6. Davis. Intro To Env Engg (Sie), 4E. McGraw-Hill Education (India) Pvt Ltd. pp. 4–. ISBN 978-0-07-067117-1. Retrieved 28 June 2011.
7. Dr. Jaboury Ghazou (2005) The Economic, Social and Ecological Value of Ecosystem Services: A Literature Review Final report for the Department for Environment, Food and Rural Affairs, 2005.
8. Erach Bharucha (2013): Text book of Environmental Studies for under graduate courses, second Edition (2013).
9. Extinction threat 'a call to world leaders' at Rio Earth Summit
10. <http://www.iucnredlist.org/current-news>
11. Indira Gandhi Conservation Monitoring Centre (IGCMC), New Delhi and the United Nations Environmental Program (UNEP), World Conservation Monitoring Center, Cambridge, UK. 2001.
12. Red list has 132 species of plants, animals from India
13. Repetto R, Baliga S. 1995. Pesticides and the immune system. Washington DC: World Resources Inst. 14. Source: <http://cdn.intechopen.com/>
15. Thecla M. Mutia (2009): Biodiversity Conservation, Presented at Short Course IV on Exploration for Geothermal Resources, organized by UNU-GTP, KenGen and GDC, at Lake Naivasha, Kenya, November 1-22, 2009.
16. Tor-Björn Larsson (2001). Biodiversity evaluation tools for European forests. Wiley-Blackwell. p. 178. ISBN 978-87-16-16434-6. Retrieved 28 June 2011.
17. Wilson EO. 1992. The diversity of life. Cambridge MA: Harvard Univ Pr. p 345.
18. Ishwar Baburoa Ghorade, Kirti Sadhuraa Niralwad & Satish Sudhakar Rao Patil (2014): Diversity of Bird Fauna. Scholars Press Germany: (ISBN-978-3-639-66764-6).
19. Ghorade. I. B., V.R. Thakur and S.S. Patil (2014): Diversity of Avian fauna from Jaikwadi reservoir at Paithan. – European Academic Research. Vol.2 (2) 2014. Pp 1967-1978. (ISSN-(E) 2286-4822). (Impact Factor-3.4546).
20. Y Anjaneyulu, 2004. Introduction to Environmental Science, B. S. Publications, Sultan bazaar, Hyderabad -500095.
21. V.P. Kudesia, 2007. Air pollution, Pragati Prakashan , Meerut.
22. Raman Sivakumar, 2009 introduction to Environmental Science Engineering, Vijay Nicole Imprints limited, Chennai-600029.
23. V Kumaresan, N Armugam, 1995. Ecology Environment and pollution Saras Publications, Nagercoil kanyakumari -629002.
24. Biodiversity profile for India, Chauhan, B. S. (1 January, 2008). Environmental Studies, Firewall Media. Pp 107-111.
25. Discussion Paper of Govt. of India on Climate Change- <https://dea.gov.in/sites/default/files/Final%20Print.pdf>
26. Varying Application of Most Favoured Nation Principle in International Investment Treaty - <https://jurnal.uns.ac.id/yustisia/article/view/18542/17022>.
27. Environmental Impact Assessment- <http://www.moef.gov.in/citizen/specinfo/eia.html>.
28. Wildlife Protection Act 1972- <http://envfor.nic.in/legis/wildlife/wildlife1.html>.

29. Coastal Regulation Zone Regulations 2018-
<http://pib.nic.in/newsite/PrintRelease.aspx?relid=186875>.
30. Gadgil Committee Report- <http://www.moef.nic.in/downloads/public-information/wg-23052012.pdf>.
31. The Kasturirangan Committee Report-
http://www.moef.gov.in/sites/default/files/1%20HLWG-Report-Part-1_0.pdf.
32. Forest Conservation Act 1980 with Ammendments-
http://punjabtourism.gov.in/Downloads/Policies/Forest_Conservation_Act-1980.pdf.
33. Forest Conservation Act 1980 with Ammendments-
http://punjabtourism.gov.in/Downloads/Policies/Forest_Conservation_Act-1980.pdf
34. The Water Act- <http://www.envfor.nic.in/legis/water/wat1.html>
35. The Air Act- <http://www.envfor.nic.in/legis/air/air1.html>
36. Environment Protection Act- <http://envfor.nic.in/legis/env/env1.html>
37. Convention on Bio-Diversity- <https://www.cbd.int/doc/legal/cbd-en.pdf>
38. Sanitary and Phyto sanitary Agreement-
https://www.wto.org/english/tratop_e/sps_e/spsagr_e.html.

Course Outcome:

- Participants will gather basic knowledge about the Environment they are living in and are part of.
- Participants will learn about Sustainable Development and its various aspects which in turn will help to create a better and sustainable world ensuring a balanced and prosperous future for all.
- Participants will learn about the growth of population with increasing demand of food, energy and forest resources and the means to meet these growing demands by considering Sustainable food, forest and energy resources.
- Participants will learn how sustainable food, forest and energy resources can meet the demands of the present population as well as future generations.
- Learning about environmental sustainability will be beneficial for protecting our ecosystem and preservation of natural resources for future generation.
- Learning about environmental issues will help the participants to understand various causes and consequences of natural disasters including climate change and also management of these disasters.
- Environmental values will help the participants to develop certain values necessary for protection of our environment.
- Students will acquire values and attitudes towards understanding complex environmental challenges, and participate actively in solving current environmental problems and preventing the future ones.
- Global environmental politics will help the participants to understand the relationships between global political forces and environmental changes.