

Value Added Certificate Course
Environmental Values and Sustainability

Course Duration: 32 hours

Course Content:

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

Unit 2 : Environmental and Social Challenges, tragedy of the commons.,

Unit 3: Concept of Sustainability : Sustainable Development- History, Goals and modality), Economy and Environment, Importance and need of Sustainable development, Strategies and practices for sustainable development.

Unit 4: Environmental Sustainability: Definition, History, Importance, Examples, Issues and Benefits.

Unit 5: Globalization and Sustainability : Globalization, its history and concept; challenges of neo liberal globalization; transformations needed for global sustainability.

Unit 6: Concept of Environmental Values: Environment and Ethics, Necessity of Ethical Question in the Context of Environment.

Unit 7: Environmental Ethics: Deep Ecology, Anthropocentrism, Eco-feminism, Environmental Values from the Indian Philosophical Context.

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 Sadhuroa 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 :

- Students will develop a comprehensive understanding of various facets of life forms, ecological processes and how humans have impacted them.
- Students will be capable of identifying relevant environmental issues, analyse the various underlying causes, evaluate the practices and policies, and develop framework.
- Students will be morally and ethically aware and develop empathy for various life forms and appreciate the various ecological linkages within the web of life.
- Students will acquire values and attitudes towards understanding complex environmental challenges, and participate actively in solving current environmental problems and preventing the future ones.
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