

ENVIRONMENTAL EDUCATION

Course Code: EDSC326

Credit Hours: 3

Course Description

The purpose of this course is to provide in-depth knowledge about environment and skills to preserve the environment. Prospective teachers will develop environmental literacy and positive attitude towards environment so that they can inculcate them into their students in future. The contents will cover basic concepts and skills in this perspective.

Learning Outcomes

After completing the course the students will be able to:

1. Understand the significance of Geography, Health, and Environment in education
2. Have awareness of the diseases and remedies
3. Critique the environmental problems affecting health

Contents

- 1. Understanding Geography, Health and Environment**
 - 1.1 Explaining Geography, health, and environment
 - 1.2 Significance of geography as a subject
 - 1.3 Importance of students' health
 - 1.4 Ecology and different Eco systems
 - 1.5 Inter-defence and inter-relationship of living organisms and environment
- 2. Raising Awareness**
 - 2.1 The effects of wars and natural disaster on geography
 - 2.2 Importance of raising health awareness
 - 2.3 Method of raising health awareness
 - 2.4 Method of protection of environment
 - 2.5 Importance of clean environment
 - 2.6 Methods for the protection of geography boundary
- 3. Environment Problems**
 - 3.1 Problems due to increase and unwise use of fertilizers and insecticides
 - 3.2 Soil losses and its degradation
 - 3.3 Soil conservation
 - 3.4 Water logging and salinity
 - 3.5 Vegetation
 - 3.6 Unplanned Industrialization
 - 3.7 Treatment plants for chemical effluents
 - 3.8 Air pollution by smoke and chemical exhaust
- 4. Preservation of World life**
 - 4.1 Life span and their use
 - 4.2 Need for preservation
- 5. Diseases and Preventive Measures**
 - 5.1 Types of disease and their causes
 - 5.2 The spread of disease and preventive measures
 - 5.3 Role of psycho-religious therapy in treating diseases:
 - 5.3.1 Physical
 - 5.3.2 Mental
 - 5.3.3 Spiritual

6. Role of Education in Environmental Preservation

Teaching-learning Strategies

The instructional strategies will focus on constructionist learning approach. These strategies will be diverse in line with the course contents. Therefore, these strategies will include but not limited to demonstration, cooperative learning, collaborative learning, teacher and student-led discussion, individual and group presentations, reflective practices and classroom activities.

Assessment and Examinations

The students will be assessed according to the following criteria

Examination	Marks
Sessional work	25%
Mid Semester	35%
Final Semester	40%

Suggested Readings

- Aldrich, M. B., & Kwong, J. (1997). *Environmental education*. London: IEA Education and Training Unit.
- Azeiteiro, U. (2008). *Science and environmental education: Towards the integration of science education, experimental science activities and environmental education*. Frankfurt am Main: Peter Lang
- Food and Agriculture Organization of the United Nations. (2005). *The state of food insecurity in the world, 2005: Eradicating world hunger - key to achieving the Millennium Development Goals*. Rome, Italy: Author.
- Gazdar, M. N. (1987). *Natural resources development and environmental management in Pakistan*. Kuala Lumpur: Open Press.
- Harris, F. (2012). *Global environmental issues*. Chichester, West Sussex: Wiley-Blackwell.
- Johnson, E. A., & Mappin, M. (2005). *Environmental education and advocacy: Changing perspectives of ecology and education*. Cambridge: Cambridge University Press
- Palmer J., & Neal, P. (1994). *The handbook of environmental education*. London: Routledge.
- Palmer J. (1998). *Environmental education in the 21st century: Theory, practice, progress and promise*. London: Routledge.

- Sampson, R. N., Hair, D., & American Forestry Association. (1990). *Natural resources for the 21st century*. Washington, D.C: Island Press [in cooperation with] American Forestry Association.
- Samuel, K., & Sundar, I. (2007). *Environmental education: Curriculum [i.e. curriculum] and teaching methods*. New Delhi: Sarup & Sons.
- Saylan, C., & Blumstein, D. T. (2011). *The failure of environmental education (and how we can fix it)*. Berkeley: University of California Press.
- Stevenson, R. (2013). *International handbook of research on environmental education*. New York: Routledge
- Tomar, A. (2007). *Environmental education*. Delhi: Kalpaz Publications
- Wilke, R. J. (1993). *Environmental education teacher resource handbook: A practical guide for K-12 environmental education*. Millwood, N.Y: Kraus International Publications.
- Whitmore, F. C., Williams, M. E., & International Centennial Symposium of the United States Geological Survey. (1982). *Resources for the twenty-first century: Proceedings*. Washington/D.C.