

Savitribai Phule Pune University

Ad-hoc Board of Studies in Sustainable Development

Certificate course in Environment, Sustainable Development and Public Health

Eligibility : Bachelor's degree in any faculty

Objectives : (1) To create awareness in water, food, environment quality for public health with the emphasis on primitive methods.
(2) Create manpower sensitized in health and related environmental problems to work in community.

Duration of the Course : 75 hours

Students Intake : 30 students

Course Fees : Rs.7,000/-

Admission process : If the course is run for employees of an institute all the personas as selected by the institute authorities can appear. If the course is run by teaching institute for students. The admission will be first come first serve basis following UoP norms.

Course Structure : The course is equivalent of five credits. The course can run full time or part time.

Syllabus :

Unit-1

Determinants of Health : physical envt, ecological system, water availability and quality, health and social services, employment and working condition, disease pattern, population health status, food availability and nutritional status. Indicators of health for each health measurement. (L8)

Taught by Public Health Expert.

Unit-2

Concept of development, Changes brought in because of development : natural envt (Climate change : warming, drought, flooding, temp rise, heat wave etc) , built envt (industrialization, high rise buildings), social envt (inequality, slum, urbanization) Disaster Management

Taught by Environment Science Expert.

Unit-3

Impact on Health (temp related diseases and mortality, newly emerging and re-emerging diseases, malaria and other vector borne diseases, diarrheal diseases, chronic and acute respiratory illness, skin diseases, cancer, cataract, malnutrition, mental health and other chronic illnesses).
(L8)

Taught by Public Health Expert.

Unit-4

Concept of sustainable urban development. Urbanization: urban environment: natural and built. Water, waste, Energy, inequality, slum, etc Causes, and consequences on health , impact on overall development of the cities. Urban development plan. Clean City initiatives eg European Union, programmes etc.
(L8)

Taught by Public Health Expert.

Unit-5

Agriculture production and its relation with changing Environment. Impact on food production, availability, distribution. Food policies, Food security bill of India
Issues of malnutrition, Right to food (Creating awareness through communication)

Prevention of nutrient insecurity at household level. (L12)

Taught by Food and nutrition expert..

Unit-6

Concept of community participation, need for community participation in sustainable development. Case studies of community participation in health and development.

(L8)

Taught by Social work expert.

Unit-7

Planning, monitoring and evaluation through the lense of Sustainable Development
(L8)

Taught by Management expert.

Unit-8

Measurement of sustainability in the field of public health Development of SD framework to assess impact on health.

(L8)

Taught by Interdisciplinary group

L=Lectures

Methodology : Lectures supplemented with case studies that may include visits.

Assessment : Final assessment by written (50 Marks) and group discussion performance (50 Marks). It will be converted to grades as per UoP norms.

Certification : All the students passing the examination will be given certificate with grade. Those failing will be given certificate of attendance.

Reference Book list

- 1) Reference material - It may be necessary to develop the reference material depending on the contents of the course. Where ever books are available mention Authors and Publishing Company of the books along with its title.
1. Cruz, R.V., H. Harasawa, M. Lal, S. Wu, Y. Anokhin, B. Punsalmaa, Y. Honda, M. Jafari, C. Li and N. Hu Ninh (2007): Asia. Climate Change, 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to The Fourth Assessment Report the Intergovernmental Panel on Climate Change, M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden and C.E. Hanson Eds, Cambridge University Press, Cambridge, U.K. 469-506.
2. Susan M. (2008). Roles and realities. In *Local Sustainable Urban Development in a Globalised World*, Lauren C. Heberle and Susan M. Opp eds. Hampshire, Ashgate Publishing Limited, England.
3. Darshini Mahadeviya (2002) Sustainable Urban Development in India: An inclusive perspective. In *From Unsustainable to Inclusive cities*, David Westendorff (ed), Geneva, UNRISD publication with Swiss
4. Megan Landon (2006) *Environment, Health and sustainable development: understanding public health*, England, Open University Press.
5. World Health Organization (2002) *Community participation in local health and sustainable development: Approaches and techniques*, Geneva , European Sustainable development and health series 4.
6. Matt Commer (2002) *Determinants of health, theory, understanding, portrayal, policy*, Netherland, Kluwer Academic Publisher.

7. Richard Semba (2008) *Nutrition and Health in developing countries*, NJ USA, Humana Press.
8. Valerie Brown, J Groopjans, J Ritchie, M Townsend, G Verrinder (2005) *Sustainability and Health : supporting global ecological integrity in health*, Singapore, southwind Production.