

Certificate Course in Environmental Studies

- KIMSDU will be conducting six months Environmental Studies Certificate Course.
- The course will commence in July and final Examination will be held in December.
- Eligibility for this course will be (10+2) Science with 50% marks.
- The course will be conducted on 1st and 3rd Saturday afternoons.
- A total of 38 Lectures hrs will be held and further 10 hrs of practical work will be held.
- The course would be conducted in English.

Objectives:

- 1) To aware the studies about current conditions of environment
- 2) To give an opportunity to the student to experience the interdisciplinary nature of the environmental studies
- 3) To create interest in students about the environment through a project work
- 4) To encourage student to prevent the environmental degradation

What to teach?

Multidisciplinary nature of environmental studies

- 1) Definition of Environment
- 2) Biotic - abiotic components of environment
- 3) Multidisciplinary nature of environment studies
- 4) Need for public awareness

Natural Resources

Focuses on the various natural resources such as water, land forest, energy & the current threats to their sustainability

An understanding of the importance of conservation is the underlying objectives of this chapter

Ecology

An ecosystem is a biotic assemblage of plants animals & microbes taken together with their physicochemical environment

In addition to basic concepts this chapter looks into the specific aspects of forest grassland & aquatic ecosystem

Biodiversity

The range & variety in living organisms exist on planet earth is called biodiversity

Also this chapter describes types of biodiversity their significances & ways to protect them the emphasis is on India as a mega diverse nation the major hot spots of biodiversity in India are identified & the endangered species are enumerated to promote conservation activities

Environmental Pollution

This chapter describes environmental degradation such as air pollution , water pollution , soil pollution, marine pollution , noise pollution, thermal pollution etc. are dealt in detail delineating the various causes, effects & preventive measures

The municipal Solid waste & hazardous waste including infectious waste is explained in detail

Social Issues & The Environment

This chapter sheds light on a variety of topics such as Sustainable development

- Urban energy problem
- Water conservation
- Rain water harvesting
- Water shed management
- Ozone hole, Global warming and environmental ethics
- Environmental Ethics, Constitutional provision, The Environmental (protection) act 1986, the air (prevention and control) act 1981, The water (prevention and control) act 1974
- Natural Disaster management- Earthquake, Flood, Landslides.

Human population and Environment

This chapter describes following points-

- Population
- Environment and human health
- Human rights
- HIV-AIDS

Field Work

- Visit to a local area to document environmental assets river/forest/grassland/hill/mountain
- Visit to local polluted sites- urban/rural/industrial/Agricultural
- Study of common plants, insects, birds
- Study of simple ecosystems- pond, river, hill slopes etc.

Course plan:

- Duration- 6 months
- Lectures- 48 (Theory 38 and 10 practical work)
- Eligibility- 10+2 Science with minimum 50%
- Timings- Saturday afternoon.

Chapter Name	Required lectures
1) Multidisciplinary nature of environmental studies	2
2) Natural Resources	8
3) Ecology	6
4) Biodiversity	5
5) Environmental Pollution	5
6) Social Issues & the environment	7
6) Human Population & environment	5
8) Field work	10

Evaluation

- Total- 100Marks
- Theory- 70marks
- Practical/Project- 30marks

Theory- 70marks

- Objective type question- 10marks
- Short notes- 20marks
- Short Answers questions- 20marks
- Long Answers Question- 20marks

Project work- 30marks

- Project writing- 5marks
- Presentation- 10marks
- Information- 15marks

Books Recommended-

- Environmental Science by P.D. Sharma.
- Environmental Studies Published by Shivaji University
- Ecology and Environment by E.P. Odum