

CENTRE FOR ENVIRONMENTAL ECONOMICS AND CLIMATE CHANGE (CEECC)

Efficient use and conservation of environmental resources are critical for long term sustainable economic development and for the well-being of mankind. Rapid degradation of these resources has raised several critical concerns, viz., the water scarcity/insecurity and pollution, air pollution, waste management, deforestation, inefficient use of energy, loss of biodiversity and climate change. The global consequences of climate change include decline in agricultural productivity, increase in water shortages, deforestation, loss of biodiversity, adverse impact on ecosystem, and on health. Thus, environmental degradation and climate change are becoming critical in the debate on sustainability of economic development and maintaining quality of life.

Keeping in view the importance of these issues and to bring the researchers and students closer to the frontier of knowledge the **Centre for Environmental Economics and Climate Change (CEECC)** is established at Pakistan Institute of Development Economics, Islamabad, Pakistan.

Vision:

Creating best alternative applied solutions to Human-Nature interactions

Mission:

Conducting and facilitating research through the applied CORE: Conservation, Optimization, Reduction and Exploration

In order to keep the knowledge and research up to date and to meet international standards, Both International and National advisory boards including eminent environmental economists, are formed. These boards will provide guidance in designing and evaluation of the research and teaching programme of the Centre.

Pakistan Institute of Development Economics

Pakistan Institute of Development Economics (PIDE) was established in 1957 and was accorded the status of an autonomous research organization in 1964 by the Government of Pakistan. It is devoted to theoretical and empirical research economics and related social sciences. In addition to providing a firm academic basis to economic policy-making, its research also provides a window through which the outside world can view the nature and direction of social science research in Pakistan. Over the past more than half a century PIDE has earned an international reputation and recognition for its research, and is now a federally chartered degree awarding institute offering world class degrees in economics, environmental economics, population sciences, econometrics and statistics, and MBA.

Contact

Centre for Environmental Economics and Climate Change (CEECC)

Growth and Environment Division (GED)

Head: Dr. Rehana Siddiqui

Pakistan Institute of Development Economics (PIDE), P.O.Box 1091, Islamabad, Pakistan.

Phone: 92-51-9248078/9248035

Fax: 92-51-9248025

Email: s_rehana@hotmail.com

Website: www.pide.org.pk



Pakistan Institute of Development Economics (PIDE), Islamabad

The CORE

Conserve



Optimize



Reduce



Explore



**MS-
Environmental
Economics**

**Centre for
Environmental
Economics and
Climate Change
(CEECC)**

MS-Environmental Economics

For the sustainable economic development, for the current and future generations, profound knowledge of the issues of Environment and Resource Use is critical. The aim of the teaching programme in Environmental Economics is to create awareness and train the students, researchers and practitioners to conduct research, using the concepts and tools of economics, on issues related to Environmental Economics and Climate Change.

The teaching curriculum focuses on developing the role and application of economic approaches for environmental issues, essential features of the market mechanism to control environmental degradation for sustainable economic development, the nature and treatment of environmental effects in economic reasoning and decision-making, and the application of environmental policy instruments based on economic analysis. The course work is based on contemporary environmental management approaches (e.g. ecological modernization, ecological economics, and industrial ecology) with substantial (physical) economy dimensions.

Keeping in view the current lack of awareness and knowledge of Environmental issues, the MS-Environmental Economics Programme is designed to:

- Impart a sound understanding of the nexus between the economy and the environment;
- Teach major concepts and theories to explain and describe the economic behaviour of human beings and its impact on the environment.
- Outline and contrast the major economic schools of thought on the environment, and highlight the weaknesses of each market system (especially with regard to environmental aspects) and discuss the associated role of the government in the economy.

- Supply high quality personnel to the federal and provincial governments, to educational institutions, to research institutions and to the private sector.

After successfully completing this programme the students should:

- Have a basic understanding for the measurement of net social impact of alternative environmental options.
- Be able to apply economic tools for valuation and other non-economic decision-making tools; and also distinguish between economic valuation tools and policy instruments.
- Describe, critically review, and engage in the appropriate selection of the major existing economic tools for environmental management.
- Be familiar with the essential features of the range of contemporary conceptual frameworks and sustainability assessment approaches with a significant economic component.

The Eligibility Criteria

Masters in Economics, Agricultural Economics or BS-Honours with Economics are eligible to apply. Additionally those who have done masters or hold a BS-Honours degree and have sufficient working experience in the areas of Environment and Climate change may also apply.

The Faculty

Our faculty holds their qualification from world renowned universities such as Columbia University, Ohio State University and Quaid-i-Azam University.

Duration: 1-1.5 years, 2-3 Semesters

Credit Hours: 36 (Course work 27 credits and Dissertation for 9 credit hours)

Courses:

Core Courses:

- Economics of Environment and Natural Resources
- Estimation Techniques for Environmental Valuation
- Issues of Measurement in Environmental Economics
- Sustainable Development and Economic Policy
- Environmental Issues and Policies of Pakistan
- Economics of Climate Change

Elective Courses

- Population Dynamics and Environment
- International Economics and Environment
- Agricultural Economics and Environment
- Industrial Economics and Environment
- Global Environmental Issues
- Urbanization and Environment
- Poverty and Environment
- Environmental Laws (National and International)
- Environment and Technology
- Environment and Health
- Environmental Quality and Standards
- Environmental Economics: Energy
- Environmental Economics: Water
- Public Finance and Environmental Policy Instruments

MS Dissertation