



**Training Course on  
Natural Resource and Environmental Economics  
3<sup>rd</sup> – 20<sup>th</sup> May, 2010**

**Course Description**

The three-week training course on Natural Resource and Environmental Economics, 2010, will cover issues in natural resource management, environmental economics, sustainable development, and climate change. The natural resource management section will focus on renewable resources, such as fisheries and forestry, non-renewable resources, and the common pool resources. Environmental economics will cover issues such as externalities and market failures, non market valuation of environmental goods and environmental damage assessment, climate change, sustainability and green accounting. Participants will be exposed to theoretical issues and economic tools for analyzing environmental and resource problems in developing countries.

**Modules**

The course is divided into five different modules. *Module One* is a review of optimization (static and dynamic) and mathematical tools (differential and integral calculus) frequently used in resource and environmental economics. This is followed by *Module Two* on natural resource economics (non-renewable as well as renewable) and common pool resources. *Module Three* will cover basic econometrics and statistical software that can be used for doing different assignments, and also will be useful for doing empirical research. *Module Four* will be an introduction to special topics in environmental economics: sustainable development, ecosystem services, green accounting, sustainability and resilience, and the climate change. *Module Five* will focus on non-market valuation techniques for valuing environmental goods and services.

Each module consists of lecture sessions, generally followed by policy discussions/assignments or presentations by the participants. During the workshop, participants are expected to develop a research concept note and to present this at the end of the course. In addition, researchers will review and present various empirical papers intermittently throughout the workshop. From these sessions, participants will learn how to do empirical research of their own.

**Organization**

Mani Nepal (Environmental Economist at SANDEE) is the course director and Anuradha Kafle (Research and Communication officer at SANDEE) will administer the course. Core teaching faculty for the course includes Rabindra Nath Bhattacharya, Partha Dasgupta, Enamul Haque, Karl Goran Maler, and Mani Nepal. There will be several additional guest lectures.

**Core Faculty**

**R. N. Bhattacharya** is an Honorary Visiting Fellow, Centre for Studies in Social

Sciences, Calcutta. He is one of the earliest teachers of environmental and natural resource economics in India and has taught at several universities in West Bengal, India. He was Professor of Economics at Kalyani University. He did his Masters in Economics from Jadavpur University and his Ph. D. in Environmental and Natural Resource Economics from Utah State University, USA. Currently, he is a visiting faculty at Indira Gandhi Institute of Development Research (IGIDR), Mumbai.

**Enamul Haque** is Professor at United International University, a private university in Dhaka, Bangladesh. He has a Master's degree in Economics as well as in Agricultural Economics. He completed his doctoral degree from the University of Guelph, Ontario, Canada in Natural Resource Economics. Professor Haque has been a SANDEE research advisor for many years.

**Sir Partha Dasgupta** is the Frank Ramsey Professor in Economics at Cambridge University. He has also taught at the London School of Economics and Stanford University. Among many important appointments he has the honor of being the first economist to be elected as a fellow of the Royal Society. In 2007, Partha Dasgupta received the John Kenneth Galbraith Award from the American Agricultural Economics Association. Prof. Dasgupta is a founder member of SANDEE and also a past chair of SANDEE's Management and Advisory Committee.

**Karl-Göran Mäler**, is the former Director of the Beijer International institute of Ecological Economics and Professor of Economics at the Stockholm School of Economics. He was elected a member of the Royal Swedish Academy of Science in 1981. In 2005 he shared the European Lifetime Achievement Award in Environmental Economics with David Pearce. Partha Dasgupta and Karl Goran Maler shared the Volvo Environment Prize in 2002 and the Kenneth Boulding award from the International Society of Ecological Economics (ISEE) in 2004. Prof Mäler is a founder member of SANDEE.