



South Asian Network for Development and Environmental Economics (SANDEE)
Introduction to Quantitative Environmental Economics
23st - 27th January, 2010

Course Description

A **Five-day training** course on Introductory Quantitative Environmental Economics (IQEE) is organized by SANDEE during January 23-27, 2010 in Pokhara, Nepal. This course is a practical course and is designed for teachers and researchers who want to understand and apply economic tools to valuing environmental goods and services. As markets are often absent in the case of environmental goods and services, we need special tools for identifying their value. The course seeks to provide a general introduction to environmental economics and to inform students about specific methods and strategies for undertaking valuation exercises.

Participants will receive hands on training on some valuation techniques that have been widely used to value environmental goods and services. They will listen to lectures on concepts and then use these concepts and real world data to estimate environmental values.

Modules

This course is divided into three modules –

- Computer software: learning computer programs such as Excel and STATA
- Economic theories on valuing environmental goods and services, such as the production function approach, the travel cost method and contingent valuation.
- Environmental valuation exercises through Excel and STATA with real world data.

Participants

There will be some 20 participants at the course. Participants are expected to have a MA degree in Economics or Agricultural Economics to make full use of the course. As this is an introductory course, researchers who have a prior training or a degree (MA/PhD) in environmental economics are not eligible for the course)

Organization

Anuradha Kafley is the course administrator. Enamul Haque and Mani Nepal will be the main teaching faculty. Some SANDEE associates who conducted their research projects with SANDEE grants will be invited to present their work during the training.

Faculty Profile

- **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.
- **Mani Nepal** is an Environmental Economist at SANDEE. He has a MS degree in Policy Economics from the University of Illinois at Urbana-Champaign and doctoral degree from the University of New Mexico in Environmental/Development Economics and Applied Econometrics.

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Day	0	1	2	3	4	5
Time	Friday 22-Jan	Saturday 23-Jan-10	Sunday 24-Jan	Monday 25-Jan-10	Tuesday 26-Jan	Wednesday 27-Jan-10
	Arrival of Participants/Registration	1	5	9	13	17
9:00-10:30		Introduction (10); Introduction to SANDEEE (20 min.); Introduction to Econometrics (1 hr)	Introduction to Environmental Economics	Valuation of Environmental Benefits	What is the value of a Protected Area?	When there are no markets - - the Use of Contingent Valuation
		MN	EH	EH	EH	EH
10:30		<i>Coffee Break</i>				
		2	6	10	14	18
11:00-12:30		Ordinary Least Squares Method: Assumptions & Exercise (Using Excel)	Public Goods, Externalities and Market Failures	Environment as an Input to Production Processes	Use of Replacement Cost Approach in CBA - case studies	Environment and Health
		MN	EH	EH	Golam Rasul	EH
12:30-2:00		<i>Lunch Break</i>				
		3	7	11	15	19
2:00-3:30		Introduction to STATA	Functional Forms and Interpretation of Results	Estimating a Production Function: Exercise	Travel Cost Method: Exercise	Contingent Valuation: Exercise
		MN	MN	MN	MN	MN
3:30		<i>Tea Break</i>				
		4	8	12	16	20
4:00-5:30		Ordinary Least Squares Method using STATA	More Exercises: Hypothesis Testing	Welfare Impact of Lease-hold Forestry in Nepal	Health Costs of Indoor Air Pollution	Reserch Ideas, Discussion & Evaluation
	MN	MN	Bishnu Sharma	Krishna Pant	EH/MN	

EH: Enamuel Haque; MN: Mani Nepal