SANDEE

Advance Training Workshop in Econometrics for Environmental Economists

Club Hotel Dolphin, Waikkal, Sri Lanka

December 9-12, 2005

	Day 1 (9th Dec. 05)	**Day 2 (10th Dec. 05)**	**Day 3 (11th Dec. 05)**	**Day 4 (12th Dec. 05)**
Time	**S-1**	**S-5**	**S-9**	**S-13**
9:00-10:30	Review of Regression Analysis (Estimation, Violation of assumptions) *Note: prior knowledge of econometrics is required*** **Gujarati:** Chapters X, XI & XII Linear multivariate regression analyses with dummy independent variables **Gujarati:** Chapter IX **Green:** Chapter VIII (8.2) **TKK**	Specification Analysis **Gujarati:** Chapter XIII **Green:** Chapter VIII (8.4) **TKK**	Dichotomous Dependent Variable Models (Probit, Logit) and their extensions – estimation and testing of hypothesis **Gujarati:** Chapter XV (15.1 – 15.10, 15.13) **Green:** Chapter XIX (19.1 – 19.4, 19.7 – 19.8) **TKK**	Simultaneous Equation Systems: Identification **Gujarati:** Chapters 18 & 19 **Green:** Chapters XVI (16.1 – 16.3) **TKK**
10:30	**Tea/Coffee Break**			
	S-2	**S-6**	**S-10**	**S-14**
11:00-12:30	Exploratory Data Analysis **Gujarati:** Chapter VI (6.4 – 6.9) **Green:** Chapter VIII (8.3) **TKK**	Maximum Likelihood Estimation, Likelihood Ratio, Wald and Lagrange Multiplier Tests **Green:** Chapters IX (9.6.3), X **TKK**	Tobit Model; Count Data and Poisson Model; Estimation and Hypothesis Testing **Gujarati:** Chapter XV (15.11, 15.12) **Green:** Chapter XIX (19.9) **TKK**	Simultaneous Equation Systems: Estimation and Hypothesis Testing **Gujarati:** Chapter XX **Green:** Chapter XVI (16.4 – 16.7) **TKK**
12:30	**Lunch**			

	S-3	S-7	S-11	S-15
2:00-4:00	Introduction to STATA with practical demonstration **SM**	Discussion of Exercise 1 Exercise 2 **SM**	Discussion of Exercise 2 Exercise 3 **SM**	Exercise 3 contd. Discussion on Exercise 2 **SM**
4:00	**Tea/Coffee Break**			
	S-4	**S-8**	**S-12**	**S-16**
4:30-6:30	Practice Session: Exercise 1 **SM**	Exercise 2 contd. **SM**	Exercise 3 contd. **SM**	Workshop evaluation & closure

****Chapters 1-12 of Damodar Gujarati's text book "Basic Econometrics" is a required reading.**
Late afternoon time will also be the time for senior researchers to discuss their own research with Prof. Kumar

References:

a. Required: Gujarati, Damodar, *Basic Econometrics***,** *4th Edition, Tata McGraw Hill.*
b. Recommended reference book: Greene, William, *Econometric Analysis* (5^{th} Edition)

Resource Persons:
Prof. T. Krishna Kumar: Course Director
Dr. S Madheswaran: Resource Person to teach specific topics plus will be a resource person to handle the software. **STATA will be used for the practice sessions.**

Exercise 1 – Linear multivariate regression model with intercept dummies and Dummy-slope interaction terms.
Exercise 2 – Logit / Probit Model, Poisson Model
Exercise 3 – Tobit Model and 2SLS