

International Institute of Islamic Economics International Islamic University, Islamabad

Organizing Committee

Principal Organizer

• Prof. Asad Zaman, Director General IIIE

Members of Organizing Committee

- Dr. Atiq-ur-Rehman, Econometrician
- Dr. Hamid Hassan, Assistant Professor
- Dr. Arshad Ali Bhatti, Assistant Professor
- Dr. Abdul Rashid, Assistant Professor

About Workshop

This workshop is the second of the series of workshops entitled Quantitative Methods for Social Sciences-Teaching and Research (QMSS-TR)' is planned to be held for male and female faculty and students separately at the International Institute of Islamic Economics (IIIE), International Islamic University, Islamabad. The importance of Quantitative Methods in the social sciences is increasing day by day, as the quality and quantity of data available for the quantitative analysis improved rapidly in the recent past. On the other hand, due to lack of experts in quantitative sciences, researchers cannot find chance of updating

Training Workshop on

Quantitative Methods for Social Sciences

June 20-26, 2013

Venue

Male Campus: International Institute of Islamic Economics, Faculty Block II, New Campus, International Islamic University, Sector H-10, Islamabad their knowledge about quantitative methods. Therefore there is critical need of updating the knowledge of researchers to meet the challenges of fast innovation process in the quantitative sciences. The QMSS-TR is an initiative of IIIE, based on the following objectives.

- 1. To stimulate research in Econometrics and statistics.
- 2. To enable researchers to effectively utilize quantitative methods in economic and social research.
- 3. To serve as a refresher course for the teachers of Econometrics.

IIIE has successfully conducted a workshop with the same title and outlines for male teachers and researcher.

Who Should Attend?

The target participants of the workshop are the teachers and researchers, who teach/utilize Econometrics/statistics for the teaching and/or research.

About IIIE

International Institute of Islamic Economics (IIIE), International Islamic University Islamabad is the leading institution in Pakistan in the field of quantitative sciences. Under the vibrant leadership of Dr. Asad Zaman, the institute has made solid contribution to the Statistics and Econometrics. IIIE is only institution in Pakistan offering opportunity for PhD in Econometrics. The Institute is extending its services for those who are not regular students, to have an opportunity of updated knowledge in econometrics/statistics.

Resource Persons

- Dr. Asad Zaman, IIUI
 Dr. Eatzaz Ahmed, QAU
 Dr. Abdul Rashid, IIU
 Dr. Atiq-ur-Rehman, IIU
 Dr. Hamid Hassan, IIU
 - Dr. Saqib Manzoor, IIU
 - Dr. Mumtaz Ahmed, COMSATS, Islamabad
 - Mr. Saud Ahmed Khan, NUST, Islamabad

Training Methodology

The experience shows that the conventional training in quantitative methods makes the students memorize the theorems and formulae, but does not enable them to handle a real data set. Therefore full attention is given to enable the participants to apply the techniques being learned to real data. Every lecture session is followed by a practical session in which participants will be required to apply the techniques learned in the session to real data. The resource persons along with a group of teaching assistants will help the participants handling the real data. The practical sessions will be conducted in a fully equipped computer lab with necessary software and DSL facility.

Daily Time Schedule

June 20,27			
Morning	Lecture Session	8:30-10:30	
	Practical Session	10:35-12:15	
LUNCH BREAK		12:15-14:00	
Evening	Lecture Session	14:00-15:55	
	Practical Session	16:00-17:45	

Detailed Lectures Plan (Provisional)

		Opening Lecture	
	08:30-	Introduction of IIIE, Purpose of Workshop,	
	10:30	Nature of Econometrics, Weaknesses and	
		Strengths of Current Econometric Practice.	
Day 1	10:00-	Exploratory Data Analysis	
Day 1	13:30	Quartiles, Boxplots, CDF, Outliers, Skewness	
June 20	19:90	kurtosis etc.	
Julie 20		Regression Analysis I	
	14:15- 17:45	Back Ground of OLS Regression, Calculating	
		Regression in various statistical Softwares	
		including Excel, E-view, PcGive, Interpreting	
1731		Regression Results	
	Dummy Variables		
HARDEN	08:30-	Trend and Intercept dummy	
Day 2	12:00	Multiple Dummies, Dummies and structural	
A PARTY AND A PARTY	建建设的发展的	breaks, interaction dummies	
June 21	14:00-	Stationarity	
	17:30	Its importance, Implications	
		AR models and Stationarity,	
		Spurious Regression	
	08:30-	General to Specific Modeling	
Day 3	12:00	Features of G2S modeling, it Merits over the	
June 22	12.00	rival strategies and application procedures	
June 22			
	14:00-	Financial Time Series Modeling	
	17:30	ARCH, GARCH, GJR Models, ARCH in mean	
	08:30-	Models for Categorical Variables	
	12:00	Logit, Probit, Multinomial Logit, Probit	
Day 4		Poisson and Negative Binomial Models	
June 23	14:00- 17:30	Time Series Models	
		Autocorrelation, Time Series Model as a	
		consequence of autocorrelation, Estimating	

		ARDL Model	
	00.20	Unit Root Testing	
	08:30- 12:00	Unit Root Tests, lag and trend specification,	
		Detrending based tests and their properties	
Day 5	14:00- 17:30	Regression Analysis II	
June 24		OLS Assumptions, Testing Assumptions of	
		OLS model,	
		Testing for Heteroskedeasticity,	
		Testing for autocorrelation.	
Day 6	08:30-	Financial Time Series II	
Day 6	12:00	Multivariate GARCH modeling	
June 25			
Julie 25	14:00-	Advanced Topics in Time Series	
	17:30	Endogeniety, Encompassing Selection between	
	17:50	various models	
		Cointegration Testing	
Day 7 June 26	08:30- 12:00	Engle Granger 2-step procedure, Johansen	
		cointegration, Bound	
		Testing Approach, ECM and VECM	

Eligibility

Teachers of Econometrics/Statistics in Institutes of Higher Education, People Engaged in Quantitative research in research organizations, Academic staff of IIIE and the students working on MS/PhD thesis

Participation Cost/Registration Fee

Professionals: Rs 3000 per individual

Students from outside IIIE: Rs 1500 per individual

Students/Employees of IIIE: Rs 1000 per individual

(The cost includes provision of software, study material and tea sessions)

Application Procedure

Applications are to be submitted on prescribed application form available from the office of program coordinator, School of Economics, IIIE (Male Campus). Attach the proof of the qualification declared in the application form.

Last date for submitting application: June 18, 2013

Last date for submitting dues: June 20, 12, 2013

CONTACT PERSONS

Male Students Arif Ahmed Assistant Director (Academic Coordination) Office: 051-9257973 Female Students Ms. Khadeeja Assistant Director (Academic coordination) Office: 051-9019805 051-9257982