



Introductory Descriptive Statistics:
HEC Workshop for Teachers of Statistics

December 30, 2013, January 03, 2014

For male and female participants

International Institute of Islamic Economics

International Islamic University, Islamabad

About Introductory Descriptive Statistics (IDS) workshop

This is a short five day workshop meant for primarily *teachers* of Introductory Statistics Courses. Students who are planning to teach such courses in the future may also profitably take this course. The workshop is designed to enable students to teach the course “Introductory Descriptive Statistics” (IDS) as well as other statistics courses.

Introductory Descriptive Statistics is a course of 10 lectures which has been designed along the principles of the MOOC – Massive Open Online Courses. This means that the course is completely self-contained – it can run without a teacher. However, the goal of the workshop is to provide the expertise as well as the complete course materials to the teacher to enable him or her to teach the course with confidence on his own. Because IDS is based on a unique and newly developed approach, it will provide the teacher and students with deep insights even into the most basic and elementary statistical concepts. Teachers who learn this approach will find that students appreciate an intuitive, comprehensible approach to statistics based on real life examples which they can understand. The standard approach as taught in conventional textbooks is technical and boring, and does not seem applicable to real life problems. The new approach is dynamic and exciting, and we expect that teachers who understand it will be in high demand.

Key features of the new approach

The conventional approach to Statistics is to separate the data analysis from the real world aspects. The statisticians’ deals only with the numbers – data generated by the real world, while the field specialist deals with applications of the numbers to reality. Our approach is an integrated approach. We deal simultaneously with the statistical analysis and its interpretation and application to the real world. This makes a tremendous difference in developing and understanding the subject matter of Statistics. Even the simplest and most basic concepts like mean, median and mode cannot be understood outside the context of real world applications.

From the Islamic point of view, the statistician cannot isolate himself from the real world consequences of his analysis. If his data analysis leads to the conclusion that taxes should be increased (or decreased), he cannot say that mine is a purely objective analysis, and what policy makers do is their business. He must understand the policy implications of his analysis and take responsibility for them. This requires entirely different approach to the subject. Our primary goal in these lectures is to explain how Islamic

methodology impacts on our understanding of what knowledge is, as well as teaching and learning, in the context of basic statistics.

Who Should Attend?

The primary target participants of the workshop are the teachers who intend to teach statistics, particularly Introductory Statistics. Others, who have frequent dealing with data sets, will also find it useful.

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 Person

- Dr. Asad Zaman, IIUI
- Dr. Atiq-ur-Rehman
- Mr. Asad ul Islam Khan

Daily Time Schedule

Morning	Lecture Session	8:30-10:10
	Tea Break	10:10-10:35
	Practical Session	10:35-12:15
Evening	Lecture Session	14:00-15:40
	Tea Break	15:40-16:00
	Practical Session	16:00-17:45

Venue:

Two separate workshops will run in parallel in Male and Female Campus of International Institute of Islamic Economics, International Islamic University, Islamabad

Participation Cost/Registration Fee

Participants from IIU: 2500 per participant

Participants from outside IIU: 5000 per participant

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

How to apply?

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: December 25, 2013

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CONTACT PERSONS

MALE CAMPUS

Arif Ahmed,

Assistant Director (Academic Coordination)

Phone: 051-9257973

FEMALE CAMPUS

Ms. Khadeeja

Assistant Director (Academic Coordination)

Phone: 051-9019805, 051-9257982