

DAY-6

Panel data Regression Models: Why Panel Data?- Estimation of Panel Data Regression Models Using the Fixed Effect Approach and the Random Effect Approach-Hausman Test

DAY-7

Discussion, Evaluation and Feedback

Resource Persons

1. Dr. R.Kasilingam, Professor , Pondicherry University
2. Dr.N.Vijayamohan Pillai, Professor, Centre for Development Studies, Thiruvananthapuram.
3. Dr Thomachan K T, Associate professor, Department of Economics. St.Joseph's college, Devagiri.
4. Dr Santhosh Kumar P K , Assistant Professor, CUSAT.

Registration Process

Applicants have to first register online via the KNRC Email id: knrajcentremgu@yahoo.com. Selection will be on first come first served basis. As the number of seats is limited to 40, early registration is desirable. Last date for registration is 03/08/2019. Priority will be given to teachers. Researchers may apply but will be considered subject to availability of seats. Those selected are required to pay Rs. 1000 towards participation fee. The amount has to be electronically transferred after confirmation of selection to the workshop (Details of the account will be provided to selected participants). Registration may be done by email, or by calling members of the organizing committee, in their mobile numbers (see below)

For Kind Attention of participants

Participants must come with a laptop; Noon meals and refreshments will be arranged; those who require accommodation should specify the same in the application form. A copy of the application form is attached to the brochure. (Soft copy of application can be sent on request). After filling the form, a scanned copy has to be sent to the director, KNRC in the email id provided above. All correspondence related to the workshop from organizers will be done online only.

Certificate of participation will be issued at the end of the workshop. Please note that attendance in all sessions is a must to get the certificate.

Organizing Committee

1. Prof (Dr.) Johny Johnson (Hon. Director, KNRC) Mob: 9447854270
2. Prof (Dr.) V. Mathew Kurian (Joint Director) Mob: 9497089219
3. Prof. N.C. Jacob (Chief Coordinator) Mob: 9447133297
4. Prof. (Dr.) Jose J. Naduthotty Mob: 9895853210
5. Dr. Ajay M.G Mob: 7012802724



One Week National Level Workshop for College Teachers On 'Teaching of Econometrics at UG and PG Levels'

05th - 11th August , 2019

Venue: Seminar Hall, School of Management and Business Studies
Mahatma Gandhi University

Organized by

Dr. K.N. Raj Centre for Planning and Centre-State Financial Relations (KNRC),
Mahatma Gandhi University

In association with

Kerala State Higher Education Council (KSHEC)

Mahatma Gandhi University, accredited with 'A Grade' (3.24) by NAAC, is one of the major Universities in Kerala, which received twice the best University award from the Governor of Kerala. It holds 30th position in the national level NIRF ranking of MHRD. The University was established on 2nd October 1983 and has jurisdiction over the revenue districts of Kottayam, Ernakulam, Idukki and parts of Pathanamthitta and Alappuzha. Mahatma Gandhi University offers a range of programmes at postgraduate level, M Phil and Ph D through its Schools, Departments and Centres. The University has already made immense strides in the fields of interdisciplinary teaching and research in the areas of pure and applied sciences, social sciences and humanities. In order to provide our students an experience of National and International interactions, certain number of seats in all the programmes are reserved for students from other states as well as from outside the country. Mahatma Gandhi University offers students from other states a golden opportunity to have the 'Kerala Experience'. Kerala is internationally viewed as one of the few 'must visit tourist destination' by the BBC. Students are provided with a chance to enjoy the well acclaimed Kerala model of Postgraduate Education and Research with all the cutting-edge facilities in diverse interdisciplinary and basic science subjects as well as in arts and humanities, in a Picturesque Campus in the 'Rural Ambience'.

Kerala State Higher Education Council

Kerala State Higher Education Council is an advisory body to the Government of Kerala, in higher education. It also acts as a state level coordinating agency for higher education activities. It came into existence in 2007 by Kerala State Higher Education Council Act (No.22) passed by the State Legislature to bring together and expand the rich array of teaching, research and human resources development. Kerala State Higher Education Council Act 2007 was subsequently amended through an ordinance by the Government of Kerala on July 2017. KSHEC brings together scholars and stakeholders in State's Education to materialize its vision to revitalize Kerala Higher Education and to foster academic inquiry and research. The Council consists of three bodies namely Advisory Body, Governing Body and Executive Body as per the KSHEC (Amendment) Ordinance 2017).

Dr. K N Raj Centre for Planning and Centre State Financial Relations, Mahatma Gandhi University.

Dr K N Raj Study Centre for Planning & Centre- State Financial Relations was established in 2012. The centre is named in honour of Late Prof. K N Raj, a visionary, an institution builder, an Indian Economist of high repute in the post-independent era. The Centre is a befitting tribute to this renowned economist whose contributions to India's development economics and planning are profound and enduring. KNRC currently offers MA programme in Economics and is served by a team of highly experienced and expert faculty. The centre is housed in the sprawling main campus of Mahatma Gandhi University in Athirampuzha.

About the Programme

The One-Week National Level Workshop is aimed at providing teachers of Economics of the different colleges under Universities of Kerala, with a comprehensive understanding of econometric theory and tools. The workshop modules are designed taking in to account the existing syllabus of UG and PG programmes of Mahatma Gandhi University. However, some advanced topics are included for a basic exposition of Econometric methods as applied in data analysis for academic research and other practical applications. The design of the course is done to give sufficient time for practical exercises- to provide hands on training in econometric techniques that can be used for data driven decision-making using real case studies.

Topics Covered

DAY-1

Linear Regression Model- Assumptions- Estimation (through OLS) - Properties of Estimates- Gauss Markov Theorem- Normality Assumptions-Statistical Inference- Testing Hypothesis. General Linear Regression Model- Assumptions -Estimation and Testing- Fitness of the Model: R2 and Adjusted R2 -Concept and Interpretation of Partial and Multiple Correlation- Analysis of Variance and its Applications in Regression Analysis-Reporting of the Results of Regression

DAY-2

Problems in Regression Analysis-Issues of Regression through Origin -Scaling and Units of Measurement- Different Functional Forms of Regression Models and their Uses - Nature, Tests, Consequences and Remedial Steps of Problems of Heteroscedasticity, Auto-correlation and Multi-collinearity-Problems of Specification Errors-Errors in Measurement.

DAY-3

Regression with Qualitative Variables: Dummy Variable Regression-Techniques and Uses-Models with Qualitative Dependent Variables LPM, Logit, Probit, and Tobit Models.

DAY-4

Simultaneous Equation Models: The Nature of Simultaneous Equation Models- Problems of Simultaneous Equation Model- Bias of OLS Estimators (Inconsistency and Simultaneity bias.) -The Identification Problem- Rules of Identification- Order and Rank Conditions - Hausman Specification Test-Methods of Estimating Simultaneous Equation System- Structural, Reduced Form and Recursive Models -Estimation of Simultaneous Equation Model- Single Equation Model; Indirect Least Squares (ILS) - Instrumental Variable (IV); 2SLS.

DAY-5

Time Series Econometrics: Basic Concepts- Unit Root Stochastic Process- Trend Stationary and Difference Stationary Process- Tests of Stationary- Dickey Fuller Test, Engle- Granger Test, Random Walk Model Co integration- Economic Application - Approaches to Economic Forecasting- AR, MR and ARIMA Modeling of Time Series Data- The Box Jenkin's Methodology- Vector Auto Regression