

# NATIONAL WORKSHOP ON "ANALYSING LARGE SCALE HOUSEHOLD SURVEY DATASETS FOR RESEARCH IN SOCIAL SCIENCES"

## REPORT

The Five Days Workshop was organized by CDER (Centre for Development and Environmental Research – A unit of Green India Trust) in association with Post Graduate and Research Department of Economics, PSG College of Arts & Science, Coimbatore-014 and Indian Association for Social Sciences & Health (IASSH).

### OBJECTIVES OF THE WORKSHOP

The workshop was aimed to provide hands-on training on Large-scale Secondary data for the early stage Ph.D research scholars. It focused on the utilization of National Sample Survey and National Family Health Survey data sets. Sampling data collection, coverage and availability of raw household data of these two sources were discussed. The workshop highlighted the utilization of these data sets more meaningfully for research on health, population, nutrition, child health, immunization, etc., in social sciences. In addition to the detailed discussions, hands-on training was given to the participants using statistical software such as SPSS and STATA.

### WORKSHOP CO-ORDINATORS

- **Prof. Dr. R. K. Govindarajan**, Director, CDER
- **Dr. R. Ravikumar**, Associate Professor & Head, Dept. of Economics, PSGCAS

### RESOURCE PERSONS

- **Dr. V. Selvaraju**, Consultant, World Bank & WHO
- **Prof. Dr. P. Geetharani**, Professor, Department of Educational Planning, NIEPA, New Delhi
- **Dr. Manoj Alagarajan**, Associate Professor, Department of Fertility & Social Demography, IIPS, Mumbai
- **Dr. Harihar Sahoo**, Associate Professor & Head, Department of Family and Generations, IIPS, Mumbai

### PARTICIPANTS

In the workshop, 30 Ph.D research scholars from various institutions attended. The following are the institutions from where the delegates attended.

- Deen Dayal Upadhyay Gorakhpur University, Gorakhpur University, Uttar Pradesh
- University of Madras, Chennai, Tamil Nadu
- Periyar University, Salem, Tamil Nadu
- Bharathidasan University, Tiruchirapalli, Tamil Nadu
- Alagappa University, Karaikudi, Tamil Nadu
- The Gandhigram Rural Institute (Deemed to be University), Dindigul, Tamil Nadu
- Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu
- Avinashilingam Institute for Home Science and Higher Education for Women (Deemed to be University), Coimbatore, Tamil Nadu

- Government Arts College, Coimbatore, Tamil Nadu
- PSG College of Arts & Science, Coimbatore, Tamil Nadu

**06.10.2025**

## INAUGURAL SESSION

Inauguration of the workshop was held on 06.10.2025 at Sangamam Hall, PSGCAS at 9.30 am. Dr. R. Ravikumar, Associate Professor & Head, Department of Economics, PSGCAS welcomed the gathering. Prof. Dr. R. K. Govindarajan, Director, CDER introduced the resource persons and presented a brief note about the workshop. On this occasion, the edited book entitled "Recent Trends in Indian Economy" was released by the dignitaries. The research articles presented in the National Conference conducted during February 2025 were published in the book. Dr. M. Senguttuvan, Principal i/c, PSGCAS presided over the function and Dr. T. Kannain, Secretary, PSGCAS felicitated the participants. Inaugural Address was delivered by Dr. V. Selvaraju, General Secretary, IASSH, Consultant, World Bank & WHO. He highlighted the significance of the workshop and the uses of statistical packages in big data analysis. Dr. V. Sumathi, Assistant Professor, Department of Economics, PSGCAS proposed vote of thanks.



**Workshop Participants**

**Release of Conference Proceedings Volume I**

## SESSION ON STATA

The session was handled by Dr. V. Selvaraju. He gave a brief introduction on the NSS, its working nature, types of data, etc., He explained how the organisation deals with various NSS rounds of collecting data in various surveys. He started the practical session by explaining on how to extract the data files to be used in the STATA software through coding in the Commands Box. Later, he proceeded with the basic commands in the STATA software making it as a warm-up session for the following days. This session helped the participants to get an overview on how to use the STATA software for data analysis.

**07.10.2025**

## **FN - SESSION ON STATA**

The session was handled by Dr. Selvaraju who gave a glance about the previous day's session and proceeded with briefing on the National Sample Survey data on Health domain using Interview Schedules that are used in their surveys to create the Household and Individual Datasets. Using the Household Datasets, he taught on creating Summary Statistics, Bar charts, t-tables and valuing the variables to aid our research requirements. The session gave an idea to the participants on how to extract and use data from large datasets for our research purposes.



## **AN - SESSION ON STATA**

The session was handled by Prof. Dr. P. Geetha Rani from NIEPA, who briefed on the Education domain of the NSS data and started to teach on combining the Household and Individual Datasets and guided to analyse the data in the education domain through various tools like list, inspect, tables, etc. where the mean, frequency, percentages and other statistical operations used two or more variables for gaining a comparative understanding on the datasets to the participants.

**08.10.2025**

## **FN - SESSION ON SPSS**

The session was handled by Dr. Harihar Sahoo, IIPS who gave introduction to the National Family Health Survey (NFHS) and explained on the 4 sets of Questionnaires namely, Men Questionnaire, Women Questionnaire, Household Questionnaire and Biomarker Questionnaire which was used in preparing 7 types of datasets namely, Birth file (IABR), Couple file (IACR), Household file (IAHR), Individual respondent file (The Women file) (IAIR), Kids file (IAKR), Men file (IAMR) and Persons file (IAPR).

The session proceeded with Dr. Manoj Alagarajan, IIPS starting the practical session in the SPSS with the IAHR dataset with various tools like frequencies and crosstabs for the existing variables and creating new variables through syntax commands like compute, variable values and variable labels. This enabled the participants to get a fair understanding on the nature and use of the datasets for further research.



**Honouring the Resource Persons**



**Hands on Training**

## AN - SESSION ON SPSS

The session was handled by Dr. Manoj Alagarajan, who carried over with the IAIR dataset. Firstly, he provided the participants a gist on the nature of the IAIR file through the questionnaires used to create the dataset. Later, the dataset was analysed using tools like frequencies, crosstabs and binary logistic regression along with coding and computing new variables providing a deeper understanding on the relationship between the variables used for analysis.



Dr. Manoj Alagarajan, IIPS  
Hands on Training



Dr. Harihar Sahoo, IIPS,  
addressing the scholars

**09.10.2025**

## FN - SESSION ON SPSS

The session was led by Dr. Harihar Sahoo who trained on with the IABR, IAKR and IAPR datasets. After briefing the nature of datasets using the questionnaires used for the survey, he provided the practical demonstration by analysing those datasets with various tools in the SPSS with the participants following it. This session further developed the knowledge of the participants on the NFHS datasets and paved way for extensive research ideas in their own domains.



Prof. Govindarajan addressing the workshop participants

## AN - SESSION ON SPSS

The session was handled by Dr. Manoj Alagarajan, who explained the IAMR and IACR datasets with the survey questionnaires followed by the practical session using various SPSS tools for analysis. He also explained the nature and use of Multiple Classification Analysis to create effective summary tables for our research. With a brief summary at the end clarified the queries of participants' by both Dr. Manoj Alagarajan and Dr. Harihar Sahoo, the SPSS sessions provided a basic and clear understanding on NFHS datasets to the participants.



**10.10.2025**

## **FN - SESSION ON STATA**

The session was started by Prof. P. Geetha Rani who explained the uses of merging various data files and demonstrated it with the Household and Individual data files. Various tools were used in the command box to analyse the merged data while some significant ideas and precautions were provided during the files merging process. Later, Dr. V. Selvaraju gave a briefing on multiple other data sources apart from NSS and NFHS like the Indian Human Development Survey, National Council for Applied Research, Young Life Survey, etc. for various domains of studies to be used by the participants in their Doctoral Research. The STATA sessions came to an end with the insights and very good guidance from both the resource persons.



**Prof. Geetharani, NIEPA, Hands on Training**

The post lunch session was allotted for the participating Ph.D scholars to present their research proposals for fine-tuning and shaping the research problem, objectives and methodology, etc., This session was very much useful for the scholars by receiving the feedback and suggestions to improve the research work.



**Presentation of Proposal and Feedback by the participants (Research Scholars)**

## **VALEDICTORY SESSION**

The Valedictory session was held on 10.10.2025 at 3.30 pm at Sangamam Hall, PSGCAS. On this occasion, the edited book titled “Current Scenario of Indian Economy: Achievements and Challenges” was released by the dignitaries. Participants gave their feedback and shared their experience about the workshop. Certificates were distributed to all the Ph.D research scholars who attended the workshop. Dr. P. Geetharani, Professor, NIEPA, New Delhi delivered valedictory address. Dr. R. Dinesh Kannan, Assistant Professor, Department of Economics, PSGCAS submitted the report on the workshop. Dr. G. Jayanthi, Assistant Professor, Department of Economics, PSGCAS proposed the vote of thanks.



Releasing Conference Proceedings Volume II  
by Dr. T. Kannaian, Secretary and  
Dr. M. Senguttuvan, Principal i/c, PSGCAS



Special Address by  
Prof. Nagarajan, IIPS, Mumbai  
(joined online)



Distribution of Certificates



Resource Persons, Co-ordinators and Faculties with the Participants

