



RUKMINI DEVI

Institute of Advanced Studies

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DOSSIER

On

FDP-Cross Sectional Data Analysis.

Research and Development Board

On

October 13 , 2018



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FORM A

Proposal :

- **Name Of the event to be organized :** FDP-Cross Sectional Data Analysis.
- **Date :** October 13 , 2018
- **Time :**
- **Venue :** LAB 3, RDIAS
- **Organized By:** Research and Development Board
- **Motivation for the activity :** The purpose of the FDP was to make the participants aware about Cross Sectional Data Analysis with practical exposure. Ms. Bhajneet Kaur was the guest speaker who started lecture with meaning of research and its different steps. The different phases involved in research have to be understood clearly in order to analyze further. Understanding the same will enable us to move in the right direction of our research work in terms of generalizability of work using SPSS. Thus, the primary objective of this programme was to enhance the research capabilities of faculty members and research scholars by making them equipped with the concepts related to cross sectional analysis and different statistics involved in it.

Form B

Part 1

Aim of the event :

In present scenario of research activities, it is paramount requirement for the researchers to analyze their research work using proper statistical tool. For the same, researchers, academicians and industrialists must have knowledge of research phases and scale measurement. Hence, it is more important to enrich the intellectual capital by focusing on new knowledge integrated with the tools available like SPSS, Eviews and AMOS. Knowledge of applied research tools and methodology along with the use of software helps in integrating research and practice. To enrich the research skills of faculty members and research scholars, RDIAS conducted a One Day FDP on "Cross Sectional Data Analysis" on October 13, 2018.

Part 2

Abstract :

The FDP started with a brief welcome to all the participants by Ms. Supriya Sardana, Asst. Professor, RDIAS. The speaker of the day was Ms. Bhajneet Kaur, Assistant Professor- RDIAS, Rohini. A warm welcome was given by presenting a bouquet to the guest by Mr. Miklesh Yadav, FDP Coordinator. Ms. Bhajneet Kaur enlightened the session with sharing the knowledge. The resource person set the momentum of the programme with a detailed session on Ms. Bhajneet Kaur. She started her session with cross sectional data analysis and its steps. First and foremost, she spoke about basic of research and its different phases. She mentioned that in order to work on cross sectional data, one has to understand and ponder over the scale measurement as it is the basis of research. Cross-sectional study is defined as an observational research type that analyzes data of variables collected at one given point of time across a sample population. Population or a pre-defined subset. This study type is also known as cross-sectional analysis, transverse study or prevalence study. The data collected in a cross-sectional study is from people who are similar in all variables except the one variable which is under study. This variable remains constant throughout the cross-sectional study. This is unlike a longitudinal study, where variables in the study can change over the course of research. She also discussed about regression analysis. In statistical modeling, **regression analysis** is a set of statistical processes for estimating the relationships among variables. It includes many techniques for modeling and analyzing several variables, when the focus is on the relationship between a dependent variable and one or more independent variables (or 'predictors'). More specifically, regression analysis helps one understand how the typical value of the dependent variable (or 'criterion variable') changes when any one of the independent variables is varied, while the other independent variables are held fixed. Most commonly, regression analysis estimates the conditional expectation of the dependent variable given the independent variables – that is, the average value of the dependent variable when the independent variables are fixed. Less commonly, the focus is on a [quantile](#), or other location parameter of the conditional distribution of the dependent variable given the independent variables. In all cases, a function of the independent variables called the **regression function** is to be estimated. In regression analysis, it is also of interest to characterize the variation of the dependent variable around the prediction of the regression function using a probability distribution. It can be operated using Microsoft Excel and IBM's SPSS.

Part 3

Conclusion

One Day FDP enriched all the external as well as internal participants with rigorous learning on various types of cross sectional data analysis SPSS. The FDP was very well appreciated by all the participants and equipped all the participants with new tools and techniques to apply in their respective research areas. Apart this, she also talked about different measurement scales with suitable examples. Overall, the FDP proved to be highly fruitful, enjoyable and great learning experience to the entire participants.

SnapShot



Participants together at the end of session!!!



Ms. Supriya Sardana, Assistant Professor-RDIAS, introducing the Resource Person!!!



FDP Convener presenting bouquet to Ms. Bhajneet Kaur!!!



FDP Convener presenting a token of appreciation to Ms. Bhajneet Kaur!!!