

A 3 Day Professional Training on “Development Research: Statistical Concepts and Data Analysis Using SPSS”

Introduction

This training is aimed for every individual engaged in social research in Pakistan at non-for-profit or for-profit organizations. Since these organizations are relying on data that is either primary (that they collect) or secondary (that other entities collect and they use). Lack of understanding of basic statistical concepts used in social development research halt the way to effectively utilize the data. Research Analytics International Inc. has learnt from its previous trainings on data analysis using SPSS that participants need to learn first about basic concepts before going to use them practically. That’s why we have designed a three-day special training on “Statistical Concepts and Data Analysis using SPSS”. Details of the training could also be viewed at <http://researchanalyticsintl.org/trainings.php>. Please share this training within your network.

Training Modules

First Day

- ❖ Introduction to Development Research
- ❖ Main Statistical Concepts used in Development Research
 - Variables and scales
 - Sample designs
 - Types of sampling
 - Mean, mode, median
 - Standard deviation, variance
 - Null and alternative hypothesis
 - Introduction to parametric and non-parametric tests
 - Student t test (with different types)
 - Chi-Square (Goodness of Fit test and Independence test)
 - ANOVA
 - Regression

Second Day

Second and third day will be mostly practical exercises using SPSS as a tool used in development research. It will include sessions on:

Second day basic module

- ❖ Introduction to SPSS from Basic to Advance
- ❖ Type of Data Analysis
- ❖ Types of Variables
- ❖ Types of Scales
- ❖ Understanding SPSS Windows (Data View, Variable View, and Syntax)
- ❖ Database making, data entry and cleaning
- ❖ Importing Data Into SPSS
- ❖ Descriptive Statistics/Frequencies, Cross Tabulation, Graphs
- ❖ Measuring Central Tendency (Mean, Mode, Median)
 - Recoding into same variable
 - Recoding into different variable
- ❖ Generating New Variable
 - Computing
- ❖ Nine Essential Commands of SPSS (Syntax Interface)
- ❖ Exporting Output
- ❖ Dealing with multiple response questions

Third day

Third day [advance module](#)

- ❖ Introduction to Advance Analysis (needs and requirements)
- ❖ Hypothesis testing
- ❖ Defining Null and Alternative Hypothesis
- ❖ Parametric and non-Parametric Tests
- ❖ T tests
 - One sample t test
 - Independent sample t test
 - Paired sample t test
- ❖ Chi-Square test
 - Goodness of fit test
 - Independence test
- ❖ Bi-variate and Multivariate analysis
- ❖ Correlation
- ❖ Regression
 - Linear regression
 - Multiple regression
 - Binary logistic regression
 - Multinomial logistic regression
- ❖ Interpretation of results of advance analysis

About Research Analytics International Inc.

Research Analytics International Inc. is registered with government of Pakistan (SECP) and has been founded with the aim to strengthen the research and development initiatives in Pakistan and around by inputting most sophisticated and rigorous efforts to analyses of the social, political and economic findings. Every high fertility country in the world has been or had undergone a demographic transition and Pakistan is undergoing currently letting millions of young people on stake due to lack of efficient policy making. Lack of quality primary, secondary and even higher education is the main hindrance in the way forward to get out of poverty-cycle for these young people. This has put on stake the future of the country's economy unless concrete steps have been taken to make this demographic transition a blessing in terms of a demographic dividend. To know more about the company, please visit us at www.researchanalyticsintl.org. To know more about previous trainings you can visit us at www.facebook.com/raipvt.

How to register for the training

You can register for this training by filling the online form. You can also directly contact us at trainings@researchanalyticsintl.org. The registration form is available at http://researchanalyticsintl.org/course_register.php. The final notification and confirmation of registration will be emailed to a week prior to start of the training to all those who have submitted their fees by the date.

Training fee

PKR. 26,900/USD300 for three days, however anyone can login for any two days for PKR. 21,900/USD230 (this fee includes training resources, training certificate, refreshment and lunch). 16% GST will apply.

Training fee can be paid at any online branch of UBL. You can also pay via

1. Cross check/draft for "Research Analytics International"
2. **Online for UBL F-6(Branch code 1155) to the account #: 000203686098.** It can be paid at **any UBL branch** (Please confirm with accounts department after submitting of fee through online method)

Money off

- Students (Provided valid student card is provided) will get 5% discount on total fee.
- Two persons from same organization/institute will get 5% discount
- Three persons from same organization/institute will get 7% discount
- Returning organizations are entitled for 8% discount

Important dates and venue: Training will held on 18 to 20 January 2017. Detailed agenda and venue will be communicated to registered trainees. Last date to apply is 16 January 2017.

Contact details

Research Analytics International Inc.

Suite 407, 4th Floor, Royal Centre, 106 West, Fazal e Haq road, Blue Area, Islamabad

Tel: +92 51 8444297, 2806093,

Skype: “researchanalyticsintl” and “ir.numl”

Twitter: @ranalyticsintl

Facebook: www.facebook.com/raipvt

Email: info@researchanalyticsintl.org

Website: www.researchanalyticsintl.org