



**Ten Days Research Methodology Programme
for Ph.D Students in Social Sciences**
(SPONSORED BY INDIAN COUNCIL OF SOCIAL SCIENCE RESEARCH (ICSSR))
[March 14 – 23, 2015]

Organised by
Department of Commerce
Maharshi Dayanand University

The Department of Commerce is committed to building and enhancing research orientation amongst students. While attempting to achieve this objective the Department is organising a workshop which will train the students in the areas of Quantitative Techniques, Research Methodology and Use of latest technology and software for improving the quality of research.

Multivariate data exploration is an integral requirement of business executives and researchers. Business researchers, many a time, find themselves severely constrained in their research works due to lack of adequate understanding of statistical analysis and techniques. Research data often remains unanalyzed and unpublished on this account. Building awareness, understanding, and appreciation of the systematic use of statistical methods, software, and analytical techniques is vital for growth as a business researcher. The goal of this workshop is to help improve the statistical and analytical skills of business researchers.

The “Ten Days Research Methodology Programme for Ph.D Students in Social Sciences” is aimed at improving the research orientation of researchers and faculty members in the discipline of commerce, management and allied areas. The workshop is designed to provide an interactive platform to enhance understanding of advance statistical techniques as well as providing hands-on experience in analyzing data using computer for statistical analysis.

Key Highlights

The key highlights of the workshop are:

- Hands-on training sessions on data handling, analyzing and deriving preliminary results.
- Practice Sessions with model exercises.
- Discussion on the underlying assumptions of the statistical tools.
- Discussion on common errors in research.
- Discussion on, how to interpret results and how to report them.

For Whom

Only registered Ph.D students are eligible to attend the course. MPhil students and faculty members are not eligible for this programme.

Registration Fee

No registration fee may be charge from the participants.

The Dates

The Workshop is proposed to be organised from March 14-23, 2015.



The Venue

The venue for the “Ten Days Research Methodology Programme for Ph.D Students in Social Sciences” shall be the Department of Commerce, Maharshi Dayanand University, Rohtak.

Important Note

The workshop shall be focusing on giving hands-on training in the use of software for statistical analysis and interpretation. **All the participants must bring their own Laptops and Power Cords.**

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Workshop Programme

Date	Session-I		Session-II		Session-III		Session-IV
	9:30-11:00		11:15-12:45		1:30-3:00		3:15-4:45
14-03-2015	Inauguration Function	11.00 – 11.15	<p>Research Process and Defining the Research Problems: Meaning, Process, Tasks Involved, The Problem Audit, Environmental Context, Decision Problem v/s Research Problem, Literature Review, Organisational Analysis, Identifying Elements of Research Problem, Research Variables, Theoretical Model Building, Development of Research Questions, Objectives and Hypothesis,</p>	12:45-1:30	<p>Measurement and Scaling: Meaning and Concept, The Primary Scales of Measurement (Nominal, Ordinal, Interval and Ratio), Scale Classification (Comparative V/S Non-Comparative Scales), Measurement Errors, Tests of Sound Measurement,</p>	3:00-3:15	<p>Scaling: Scale Construction Methods (Arbitrary, Judgment, Item Analysis and Cumulative).</p>
15-03-2015	<p>Sampling: Universe & Sample; Probability (Simple Random Sampling, Proportionate & Disproportionate Stratified Random Sampling, Cluster Sampling) & Non-Probability Sampling (Accidental, Quota, Purposive & Snowball Sampling); Determining Sample Size; Sampling Errors. (T)</p>	TEA BREAK	<p>Tools of Data Collection: Primary & Secondary-Questionnaire (Types & Formats), Schedule, Observation & Interview; Guidelines for Selecting Appropriate Data Collection Tool (T).</p>	LUNCH BREAK	<p>Questionnaire Designing: Types of Questionnaire (Unconcealed, Concealed, Formalised and Non-formalised), Questionnaire Design Procedure, Criteria for Question Designing, Questionnaire Structure, Physical Characteristics of the Questionnaire</p>	TEA BREAK	<p>Allotment of a Small Field Study to the Participants (T).</p>

16-03-2015	Introduction to SPSS & Data Management: Data Entry; Computing New Variables; Data Validation; Importing Data from Excel; Test for Internal Consistency of Data. (P)	Preparation of Data Files : Defining Variables – Variables Labels, Value Labels, Missing Values, Variable Types, Column Format, Measurement Level; Data Entry, Inserting and Deleting Cases and Variables, Moving Variables Data Screening : insert variables, insert cases, value labels, sort, split cases, select cases, data editing, Random Number Generation Compute Variables, Data Recoding, Missing Values, Outliers, Improper Coding, Category Merging (P)	Data Transformation : Errors in data entry; Accessing Normality – Histograms, Stem and Leaf Plots and Box Plots, Kolmogorov – Smirnov and Shapiro Wilk Statistics, Skewness and Kurtosis; Assessing normality by group; Variable Transformation; Data Transformation – Recode, Compute (P)	Introduction to Descriptive Statistics : Frequency Distribution, Measurement of Central Tendency and Variability, Univariate, Bivariate, Multivariate, Cross Tabulation (P)
17-03-2015	Parametric & Non-Parametric Tests: Concept; Different Methods; Selection of Appropriate Test; (T)	Hypothesis Testing – I Parametric Test (P)	Hypothesis Testing – II Parametric Test (P)	Practical Session on Non Parametric Test (T) – case studies
18-03-2015	Hypothesis Testing – I Non Parametric Test (P)	Hypothesis Testing – I Non Parametric Test (P)	Relational Analysis: Correlation; Partial & Multiple Correlation; Auto-Correlation; Measures of Determination & Association with SPSS (T).	Practical Session on Correlation (P)
19-03-2015	Field Trip	Field Trip	Field Trip	Field Trip
20-03-2015	Relational Analysis: Regression Analysis (T)	Practical Session on Regression Analysis (P)	Multivariate Data Analysis: Introduction; Different Methods; Selection of Appropriate Techniques; Guidelines to Use Multivariate Data Analysis Techniques in Your Data. (T). Multivariate Regression Analysis: Theoretical Foundation of Multivariate Regression Analysis (Quantitative & Qualitative) (T).	Multivariate Regression Analysis: Practical Session on SPSS (P)

21-03-2015	<p>Factorial Research Design: Types & Complexities, Guidelines for drafting Factorial Research Design (T).</p> <p>Factorial Research Design: Practical Session on SPSS (P)</p> <p>Factor Analysis: Theoretical Foundation of Factor Analysis. (T)</p> <p>Factor Analysis: Practical Session on SPSS (P)</p>	<p>Cluster Analysis: Theoretical Foundation of Cluster Analysis. (T)</p> <p>Cluster Analysis: Practical Session on SPSS (P)</p>	<p>Conjoint Analysis: Theoretical Foundation of Conjoint Analysis (T)</p> <p>Conjoint Analysis: Practical Session on SPSS (P)</p>	<p>Multidimensional Scaling: Theoretical Foundation of Multidimensional Scaling. (T)</p> <p>Multidimensional Scaling: Practical Session on SPSS (P)</p>
22-03-2015	<p>Structural Equation Modeling: Theoretical Foundation of Structural Equation Modeling. (T)</p>	<p>Structural Equation Modeling: Practical Session on SPSS (P)</p>	<p>Ethics in Research: Ethical issues of research; Problem of Plagiarism; Preventing Measures. (T)</p>	<p>Report Writing & Style of Referencing. (T)</p>
23-03-2015	<p>Paper Writing & Publication: How to Write an Academic Paper for Publication in Reputed Referred & Indexed Journals; Impact Factor. (T)</p>	<p>Field Report Presentation & Question Hour</p>	<p>Field Report Presentation & Question Hour</p>	<p>Feedback, Valedictory & Certificate Distribution</p>

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Registration Form

Name of the Participant: _____

Department/Institute/ University where registered for Ph D: _____

Address: _____

City: _____ State _____

Mobile: _____

E-mail: _____

Title of the research problem: _____

Name of the Ph D Supervisor: _____

Date of Ph D Registration: _____

How many Research Methodology Programmes have you attended so far? _____

Kindly attach the following documents:

- (i) Ph D Enrolment Letter
- (ii) Copy of the Ph D Synopsis
- (iii) Progress of the work done so far
- (iv) Passport Size Photograph

(Signature)

Kindly email the scanned copy of the above form to the following email address: kritikamdu2@gmail.com