

An Institution of National Importance Established by The BANARAS HINDU UNIVERSITY ACT XVI of 1915



NATIONAL WORKSHOP

ON

RESEARCH METHODOLOGY & DATA ANALYSIS for Research Scholars

February 6-12, 2017

Organized by



प्रबन्ध शास्त्र संस्थान

(प्रबन्ध शास्त्र संकाय)

INSTITUTE OF MANAGEMENT STUDIES (FACULTY OF MANAGEMENT STUDIES)

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A Brief Report

Outset

Over the years, it has been found that the quality of Research-output has been far from the much needed standards. A Research-work must act as a catalyst for further researches to be undertaken in the said field. The quality of research depends on the understanding of the Research-problem and the output is significantly based in the appropriate research-tools used for the data-collection and its analysis. Management, Humanities or Social-science Research assumes significance from the nature of problem being identified and the possible solutions, since, it has a larger impact on the day to day activities of the common-man. Hence, a work carried out with accuracy in the results majorly determines the future of this knowledge-driven world.

In this backdrop, Institute of Management Studies, Banaras Hindu University takes the initiative to organize a National Workshop on 'Research Methodology & Data Analysis for Research Scholars' and invites Research Scholars in all streams dealing with social-issues and all the aspiring researchers to participate and deliberate upon the contemporarily relevant issues.

Objective

The major objective of this workshop is to sensitize and erudite the participants about the various Research-methodologies to be adopted and the appropriate Statistical-tools and package to be used in their research-works and further the interpretation of the results obtained from such analysis, thereby helping the present as well as future researchers to evolve an understanding of the research tools and statistical packages that meet both the current and future needs.

Schedule of Workshop (Tentative)

Days & Dates	10:00 to 11:15 am	11:30 to 12:45 pm	12:45 to 1:45 pm	1:45 to 3:00 pm	3:15 to 4:30 pm
Day 1 Monday 6-2-2017	Inaugural Session	Identification and Formulation of a Research- problem and setting Objectives	==[.	Importance of Review of Literature in setting Research- problem	Introduction to Qualitative techniques
Day 2 Tuesday 7-2-2017	Introduction to Statistics and Quantitative- techniques	Methods and Tools of Qualitative Analysis	U	Research Designing : Qualitative RDs, Quantitative RDs	Setting and Testing Hypothesis: Chi- square, t-test, f- test, etc.
Day 3 Wednesday 8-2-2017	Data Collection Tools & Techniques: Primary, Secondary	Sampling Framework and Sampling Tools: Probabilistic & Non- probabilistic Techniques	N	Measurement Scaling and Questionnaire Designing	Testing Reliability and Validity of Questionnaire
Day 4 Thursday 9-2-2017	Tools of Data Analysis (1): ANOVA (one way & two way)	Tools of Data Analysis (1): ANOVA (one way & two way)	c 016	Tools of Data Analysis (2): Factor Analysis, Discriminant Analysis	Tools of Data Analysis (2): Factor Analysis, Discriminant Analysis
Day 5 Friday 10-2-2017	Tools of Data Analysis (3): Correlation and Regression	Tools of Data Analysis (3): Correlation and Regression	С	Tools of Data Analysis (4): Univariate & Bivariate Analysis	Tools of Data Analysis (4): Univariate & Bivariate Analysis
Day 5 Saturday 11-2-2017	Data Analysis- SPSS Package: How to create Data & Variable View in SPSS	Data Analysis- SPSS Package: Testing of Hypothesis- Parametric & Non-Parametric	н	Data Analysis- SPSS Package: Linear Regression and Correlation	Data Analysis- SPSS Package : Factor and Discriminant Anaylsis
Day 6 Sunday 12-2-2017	Papers, Presentations & Thesis Writing	Referencing and Bibliography & Citations & APIs		Valedictory Session	

Organizing Committee

Patron: Prof. G. C. Tripathi

Vice-Chancellor

Chairman: Prof. Raj Kumar Singh

Director, Head & Dean

Advisors: Prof. H. C. Chaudhary

> Prof. D. Barman **Prof. S. K. Singh** Prof. R. K. Pandey Prof. P. S. Tripathi Prof. Usha Kiran Rai Prof. H. P. Mathur

Coordinators:

Banaras Hindu Un Prof. Rekha Prasad **Principal**

Administration Prof. S.K. Dubev

Prof. Alok Rai

Prof. Abhijeet Singh Dr. Shashi Srivastava

Hospitality Prof. R. K. Lodhwal

Dr. N.B. Singh

Dr. Raj Kiran Prabhakar

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Summary of sessions in the Workshop

Inaugural and sessions of 6th Feb 2017

Seven days National Workshop organized at the Institute of Management Studies BHU on "Research Methodology and Data Analysis" scheduled from - February 6-12, 2017 has started. The Workshop commenced with the inaugural session by garlanding the bust of Pt. Madan Mohan Malaviyaji followed with the lightening of lamp. The session commenced with the welcome speech of Prof. Raj Kumar, Director Institute of Management Studies, BHU formally welcoming the guest and key speakers. Prof. Raj Kumar also welcomed the distinguished participants from various disciplines and institutions. He threw light upon the need for Research Methodology Workshop and discussed about the importance of Research in today's scenario.

He laid emphasis on the quality of the research that needs to be done by the academicians and explains appropriate and suitable methodology to be adoped while doing the Research Program. **Prof. R. K. Pandey** (Former Dean and Director of the Institute) enlighten the participants about the way one needs to do the research. **Prof. Rekha Prasad** (Principal Coordinator of the Workshop) gave a brief outline of the programme.



The session proceeds with the first technical session by **Prof.**V. V Menon (Former Head of Department of Mathematics, IIT BHU). He laid stress on the sources, objectives, meaning of words for effective communication of research and proper referencing. He also discussed about the qualitative and quantitative methods of measurement and information overload. The second technical

session proceeds with explaining the importance of Review of Literature in the Research by **Dr. Anindita Chakraborty** (Assistant Professor, Institute of Management Studies, BHU). She emphasized on finding the Research Gap from the extensive Literature Review that needs to be done by the Researcher. The vote of thanks was given by one amongst the participants.

Sessions of 7th Feb 2017:



The second day of the workshop commenced with the interactive session of **Prof. Ashish Bajpai** on **Research problem and design**. He provided researchers how research questions formulate may precede conceptualization and will direct them what answers we are seeking for the study. In the continuation of the session, **Prof. Rekha Prasad** provided the conceptual knowledge about how to test hypothesis and parametric testing, Type I and Type II error in a brief.

The second half session proceeded with enriching lecture on Questionnaire Designing and Scaling Measurement by

Prof. Alok Kr. Rai, Institute of Management Studies, BHU. The day concluded with the session on Correlation by Prof. Manju Pandey (Professor , DST, BHU).

Sessions of 8th Feb 2017:

The morning sessions of day third of the Workshop was handled by **Dr. Avinash Pathardikar** (Associate Professor & Head, Department of HRD, VBS Purvanchal University). He discussed the relationship among reliability and validity and the complexities of testing the validity and reliability and cautioned the participants of the possible errors involved while collecting and validating the data simultaneously dealing with the other hurdles of doctoral research. Participants actively took part in the discussion conducted by the speaker and expressed their views. In continuation to that activity session was carried out by. **Dr O.P Singh** (Dept of Statistics U.P College Varanasi) to understand the concept of Sampling process of research and the steps to be undertaken while pursuing research. The session applied more focus on sampling design which is a critical part in the research process. The post - lunch sessions was continued by **Dr. Avinash Pathardikar**. The speaker exposed the participants to statistical techniques of Exploratory and Confirmatory Factor Analyses and gave them hands on experience using example data provided.

Sessions of 9th Feb 2017:

The morning and afternoon sessions of **day fourth** of the Workshop was handled by Dr. Saurabh Agarwal (Harcourt Butler Technical University, Kanpur). The first four sessions of fourth day was planned to provide practical hands on training of SPSS to the

participants. The speaker introduced participants about the basic concepts used to handle SPSS software and briefed upon its utility along with a comparison with Ms Excel's Data. The main objective of the session was to help a research scholar in doing his research



work with SPSS. The speaker provide training from the basic entry of data in excel to calculation of descriptive statistics, cross tabulation, checking normality, regression, correlation and to perform ANOVA in SPSS. He stated that this field is fast evolving with new techniques, mixed methods and applications emerging both from academia and practitioners. In their endeavor to do so, practitioners have resorted to using statistical techniques for data analysis to arrive some decisions.

Sessions of 10th Feb 2017:

The sessions of day fifth of the Workshop was the continuation of the fourth day sessions Dr. Saurabh Agarwal (Harcourt Butler



Technical University, Kanpur) focusing on practical hands on training of SPSS to the participants. The speaker introduced participants about the basic concepts used to handle SPSS software and briefed upon its utility along with a comparison with Ms Excel's Data. The main

objective of the session was to help a research scholar in doing his research work with SPSS. The speaker provide on hand training from the basic entry of data in excel to calculation of descriptive statistics, cross tabulation, checking normality, regression, correlation and to perform ANOVA in SPSS. He stated that this field is fast evolving with new techniques, mixed methods and applications emerging both from academia and practitioners. In their endeavor to do so, practitioners have resorted to using statistical techniques for data analysis to arrive some decisions. The session concluded with individual interaction between the participants and the resource person.

Sessions of 11th Feb 2017:

The morning sessions of day sixth was handled of **Dr Anup Verma** from Biostatistics Department, SGPGI, Lucknow. The speakers introduced the concepts of categorical data used in Research. The speaker made the participants actively engage in the discussion and clarify the concepts of statistics with summary calculations and graphical and tabular displays. The speaker gave the training of handling R software to the participants.

The afternoon session was taken by Prof. Usha Kiran Rai from Institute of Management Studies, BHU. The speaker clearly exposed



the purposeful writing targeted at a specific audience given а academic field and constraints faced in writing, report key components report writing to audience. In continuation with the session, Prof. Sushama Tripathi, (Mahila

Mahavidaya, BHU) engaged a session on importance of Statistics in Research. The session was concluded by the inspiring and motivational speech of **Prof Raj Kumar** (Dean and Director, Institute of Management Studies, BHU) about the future prospects of being a researcher and later performing the duties of an academician.

Sessions of 12th Feb 2017:

The morning first session of the seventh day was handled by **Ms Kanchan Lata Tripathi** who elaborated the application of Non parametric test used in Research. She also gave an idea to the participants about the tests to be used in different types of research problems.

The next session had been taken by Mr. Arun Kumar Deshmukh who gave the training on handling the Mandeley software to the



This participants. would help the participants to know the application of storing the References Bibliography. The Workshop concluded with the valedictory session scheduled at 1:15 PM. It began with a

brief outline of the

sessions of the workshop by the workshop coordinator **Prof. Rekha Prasad** (Institute of Management Studies, BHU). **Prof. Raj Kumar**, Director & Dean of the Institute had addressed the concluding session of the Workshop. He reiterated that the imperative of organizing such workshop lies in improving the overall quality of research works of the participants. This was followed by a brief feedback session from the participants of the workshop. All participants expressed their satisfaction about the workshop and overall coordination of the faculties of the department as well as the whole program. Certificates were presented to the participants by the esteemed dignitaries. The workshop was concluded with a vote of thanks proposed by **Ms. Anjana Singh**. The program was concluded with happy note from everyone.