

One Week National Workshop

December 11-17, 2017

On

Analytical Techniques for Research



Organized by

Aggarwal College Ballabgarh

A Co-educational Post Graduate College Accredited 'A' Grade by NAAC (CGPA 3.40)

College with Potential for Excellence (CPE) Status by UGC

Affiliated to M.D. University, Rohtak

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In Association with

Global Network of Business Researchers



ABOUT THE COLLEGE

Aggarwal College Ballabgarh (Estd. 1971), is a post graduate co-educational institution affiliated to M.D. University, Rohtak. It is situated in Ballabgarh, Distt. Faridabad on NH-2, a part of the National Capital Region and is approx. 45 km from Indira Gandhi International Airport, New Delhi. The college is running 9 under graduate, 3 Hons. and 8 post graduate courses. Besides six add-on courses, two vocation degree courses sponsored by University Grants Commission, New Delhi are also running to equip students with market oriented innovative skills. The total student strength is 4664. There are 130 qualified and trained faculty to effectively implement the teaching, learning and evaluation process. The college has 12 Computer labs having 700 PC/nComputing devices with Wi-Fi and Internet facilities. The central library of the college has OPAC and is a regular subscriber to N-LIST and INFLIBNET. Beside 65 class rooms, there are 16 smart class rooms for using ICT tools in teaching and learning. The college has been reaccruited 'A' Grade with CGPA 3.40 by NAAC in 2014. The college has recently been granted 'College with potential for Excellence' (CPE) status by UGC, New Delhi.

GLOBAL NETWORK OF BUSINESS RESEARCHERS

The Global Network of Business Researchers is a network dedicated to promoting high quality business research to contribute to sustainable development in the country. A dedicated conglomerate of researchers, trainers, business executives, professionals and academicians have established this network with the core objective to build strong research capacity in the country and to encourage the production of independent, high quality business research. It also aims at disseminating research output to a wide and diverse audience.

To achieve these objectives, the Forum carries out a portfolio of activities. These include mobilizing funds for well-conceived proposals; managing carefully selected regional research initiatives; providing training and mentoring programs to junior researchers; organizing seminars and conferences based on research outcomes; and publishing research output through various types of

publications, including working papers, books, policy briefs and the Forum newsletter.

ABOUT WORKSHOP

Aggarwal College Ballabgarh in association with Global Network of Business Researchers organizing a seven days national workshop bringing together academicians, business people, practitioners and scholars to examine teaching and decision-making process in 21st Century. The purpose of this seven days workshop is to bring statistical tools and techniques into practical application for research activities. This workshop will bring together 40 participants from academia and scholars to participate in intense seven days practical hands –on experience workshop on research methodology with the help of analytical tools.

OBJECTIVES OF WORKSHOP

The objective of organizing workshop is to build and enhance research orientation amongst faculty members/research scholars. Thus, the focus will be to improve upon the quality of research by the use of latest technology and software.

Business researchers find themselves severely constrained in their research work due to lack of adequate understanding of statistical analysis and techniques. Research data often remains unanalyzed and unpublished on this account. As a business researcher building awareness, understanding and appreciation of the systematic use of statistical methods, software and analytical techniques is vital. Thus, the goal of the workshop is to help improve the statistical and analytical skills of business researchers.

The workshop “Analytical Techniques for Research” is aimed at improving the research orientation of the faculty members and research scholars. 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 session with model exercise.
- Discussion on the underlying assumptions of the statistical tools.

- Discussion on common errors in research.
- Discussion on the interpretations of results and presentation

FOR WHOM

The contents of the workshop are designed for the Faculty Members, Researchers, M. Phil. Students, and Pre Ph. D. Students in the discipline of Commerce, Management, Economics and allied areas.

THE DATES

The Workshop will be organised from December 11, 2017 to December 17, 2017.

THE PARTICIPANTS

The workshop on “Analytical Techniques for Research” will be open to the Faculty Members, Students of M. Phil., Pre Ph. D. Students and Research Scholars of Commerce, Management and related disciplines. The workshop shall also be open to the teachers working in the University Departments and Colleges. The total number of participants shall be restricted to 40.

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.

STEERING COMMITTEE:

Conference Chairman

- Dr. Krishan Kant, Principal

Convener

- Dr. Manoj Shukla

Co-Convener

- Dr. Parveen Gupta

Organizing Secretary

- Dr. Shobhna Goyal

Jt. Secretary

- Dr. Rekha Sain
- Dr. Dimple

REGISTRATION FEE:

The total numbers of participants shall be restricted to 40 and registration shall be done on first come first serve basis. Rupees 2000/- (Two Thousand Only) will be charged as registration fee per participant. The registration fee includes workshop kit, course material, lunch and other support services for seven days. Accommodation will be provided on chargeable basis.

The participants are required to fill registration forms along with the workshop fee through Cheque/Demand Draft (in favour of Principal, Aggarwal College Ballabgarh). Registration fee should be sent along with registration form to college address. For online registration:

Account Name: Aggarwal College Ballabgarh
Account No.: 00882010056670 IFSC Code: ORBC0100088

Branch: Oriental Bank of Commerce, Ballabgarh.

RESOURCE PERSONS:

The workshop will be aimed at sharpening analytical skills of the participants and brings research orientation with the help of proper understanding of statistical tools and techniques. In order to meet the growing demand of in-depth knowledge of the same, the eminent speakers and resource person's from various prestigious institutes shall be invited.

LOCAL ORGANIZING COMMITTEE

- Dr. Usha Aggarwal
- Dr. K.L. Kaushik
- Dr. Naresh Kamra
- Ms. Priya Arora
- Dr. Shilpa Goel
- Dr. Usha Chaudhary
- Ms. Pooja Sharma
- Ms. Rajni Aggarwal
- Ms. Seema Malik
- Ms. Neha Thakur
- Ms. Snehlata
- Ms. Meenakshi
- Ms. Reena

CONTACT PERSONS

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Co-Convener
(M) +91 9015 857 385

Dr. Manoj Shukla
Convener
(M) +91 9871 075 456

COURSE CONTENTS

The proposed contents and detail of programme of the workshop is as follows:

| Date | Session-I 9:30 to 10:30 | | Session-II 11:00 to 12:30 | | Session-III 1:00 to 2:30 |
|-----------------------------------|--|-----|--|-------|---|
| Day 1: 11 th Dec | Welcome Session & Introduction to Research: Research Proposals, Structure and Procedure of Preparation of Research Problem | Tea | Data Sources & Data Collection and Handshake with SPSS: Type of variables, Master chart, data entry, importing files from other software's, Copy and Moving Data | Lunch | 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 |
| Day 2: 12 th Dec | Review of Literature: Problem statement, Research questions, Statement of Research Objectives | | 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 | | Data & Variable 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 |
| Day 3: 13 th Dec | Scale Construction & Measurement | | Introduction to Descriptive Statistics: Frequency Distribution, Measurement of Central Tendency and Variability, Univariate, Bivariate, Multivariate Hypothesis Testing – I Parametric Test | | Hypothesis Testing – II Parametric Test |
| Day 4: 14 th Dec | Hypothesis Testing – I Non Parametric Test | | Hypothesis Testing – II Non Parametric Test | | Data & Result Interpretation |
| Day 5: 15 th Dec | Basics of Regression | | Practical Session Regression – I | | Practical Session Regression – II |
| Day 6: 16 th Dec | Ethical Aspects of Research | | Research Paper Writing and Report Writing : Format & Steps | | Practical Session on Citation and Plagiarism |
| Day 7: 17 th Dec | Test Your Skills | | Valedictory Session | | |



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Registration Form

Name of participant (Dr./Mr./Ms.): _____

Designation: _____

Company/Institute/University: _____

Address: _____

City: _____ State: _____ Pin _____

Telephone: _____ (with STD code) Fax: _____

Mobile No. _____ E-mail: _____

Accommodation Yes/ No (on chargeable basis)

Registration Fee Details: Cash/ Cheque /Demand Draft No.: _____

Amount: Rs. 2000/- (Rupees Two Thousand Only) Date: _____

(Signature)

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