



CHITKARA
UNIVERSITY

THREE DAYS WORKSHOP
on

**RESEARCH
METHODS
AND DATA
ANALYSIS USING
IBM SPSS and 'R'**

15th - 17th December 2017

Search for knowledge or any systematic exploration to institute facts is Research. It is about searching systematically for elucidations of problems. No matter what scientific methodology is used, the variables under investigation must always be measured in some way or another. And measurement generates numbers - or data - often much more data than we can manually interpret. As a result, statistical tools have been devised to help the researcher summarize and interpret raw data. Statistical procedures not only provide a way of summarizing data into quick and manageable information, but they also help the researcher make decisions about whether relationships between two or more variables, are actually real ones. Statistical methods are playing an ever increasing role in framing suitable policies in a large number of diversified fields covering natural, physical and social sciences. Statistics today have become indispensable in all fields of human endeavor.

To address challenges and opportunities in the field of research, and to help researchers conduct research in an accurate and meaningful way, numerous software products have been developed. SPSS is one of the most popular software used by researchers widely as SPSS has enabled academicians and researchers to obtain valuable information from the data. Basic knowledge on SPSS is vital for all users before they proceed to surveys and data analyses. This three-day workshop is for beginners with little or no experience in SPSS for Windows who want to acquire the skills and knowledge on getting started with SPSS. Another popular software being in demand these days is "R" which enables researchers to implement a wide variety of statistical and graphical techniques, including linear and nonlinear modeling, classical statistical tests, time-series analysis, classification and clustering etc.

Objectives of the Workshop

The Participants will be able to

1. Select appropriate research method for conducting empirical research
2. Select statistical tools for data analysis
3. Use SPSS and R to conduct analysis and apply right tools and techniques while conducting research
4. Enhance their analytical skills

Contents of the Workshop

1. Fundamentals of Research, Statistics & Data Analysis
2. Testing of Hypothesis
3. Testing of Normality, Testing of homoskedasticity
4. Regression Analysis, Factor Analysis
5. Installing R for Windows, Script, History, Workspace
6. R Commander, R interface, R Console, R Studio
7. Data Structures, Vectors, Matrices
8. Arrays, Lists, Data frames

Who should attend ?

This workshop will be helpful to

1. Academicians who want to enhance their research skills,
2. Students and Research Scholars in honing their quantitative skills
3. Industry Executives in learning analytical and presentation skills for better decision making.

About Resource Person

Mr Saurabh Aggarwal is an Alumnus of IIT, Kanpur and IIT, Delhi having vast experience in the field of Research and Application of Statistical Techniques. He is presently, consultant to IBM SPSS South East Asia Bangalore, Principal Consultant at HBTU Kanpur, Trainer in IBM SPSS & R for Business Analytics and Consultant to UNESCO Doha for data analysis projects. He has delivered numerous training sessions and projects related to R, IBM SPSS Statistics, SPSS Amos, IBM SPSS Modeler, Advanced Excel.

Workshop Fee

Faculty Rs. 2000/- Research Scholars Rs. 1500/- Industry Executives Rs 2500/-

Registration Fee will include registration kit and Tea and Lunch for all days. Registration will be done on first come first serve basis. Limited Seats Available for the Workshop.

How to Apply

- Register on the given link. Fill the enclosed form and make payment.
- Email your queries at rmda.cbs@chitkara.edu.in
- Online Registration link
<https://feeshub.com/event/workshop-on-rmda-using-spss-15th-17th-december17/>

May We Help You

Dr. Taminder Kaur | Convener | Email - taminder.kaur@chitkara.edu.in | Mobile: 9876772303

For queries related to registration and online payment Contact

Mr Santhosh | Technical Support | Contact - 9501119649

Organizing Committee

Patron

Dr. Madhu Chitkara | Vice-Chancellor | Chitkara University.

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Dr Sandhir Sharma | Dean | Chitkara Business School

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Mr Santhosh | Programme Manager | MBA | Chitkara Business School

About Chitkara University

Chitkara University is a leading non-profit University in North India with campuses in Chandigarh, Punjab and Himachal Pradesh. Our programs in academic disciplines are consistently ranked within top 50 in the country which speaks volumes about its enduring commitment, outstanding faculty and a rich learning environment. Chitkara, as a brand, brings with it a reputation that has been earned through years of serving the career- needs of the student community. It is a reputation for excellence and innovation among



coveted employers for preparing graduates who have the knowledge and skills they need for success in their workplace.

Chitkara established its Punjab campus in the year 2002 on Chandigarh – Patiala National Highway which is 30 kms from Chandigarh. In the year 2010 Chitkara University was established by the Punjab State Legislature under “The Chitkara University Act” with the right to confer degrees as per the sections 2(f) and 22(1) of the UGC Act, 1956. The sprawling campus of the University is equidistant from Chandigarh, Mohali, Panchkula, Ambala and Patiala. The University offers multi-disciplinary programs, all of which are designed to be industry-relevant. As a result of this student centric approach, Chitkara University is renowned as one of the best private universities in

the North India region. From business management programs to programs in nursing and medical laboratory technologies; from computer science, electronics and mechanical engineering programs to hotel management and architecture—Chitkara University, Punjab is a veritable cornucopia of educational services. It is because of the cumulative effect of an elaborate in-campus academic infrastructure; strong national and international collaborations; and a robust on-campus recruitment record—including regular recruitment by reputed blue-chip companies—that the University finds favor with national as well as international students.

A healthy number of foreign students regularly study at the campus and number of them also visits on exchange programs, adding to the cultural diversity on the campus. The University provides several opportunities for local students to visit foreign universities and institutions on such exchange programs, thereby helping them to receive invaluable international exposure

About Chitkara Business School

Chitkara Business School was established at Chitkara University in the year 2008 and has achieved incredible national and International placements record for first four batches of MBA due to its committed academic efforts. It has been ranked as 34th top B –School amongst the private universities in 2014. CBS enjoys 100% national and International placement record for students of various management programs. A rigorous general management curriculum gives the breadth and depth of knowledge to be a leader in any type of organization. The main focus of our management programs is to make each and every graduate industry ready and exposed to latest trends in the dynamic Business world. The Business program at Chitkara Business School is a perfect platform for creating managers who will design a progressive India. The Program imparts the knowledge and skills needed to become an effective manager in a variety of organizational settings. For more information, please log on to <http://chitkara.edu.in/cbs/>

Recognitions– Chitkara Business School

Business Today 2016-17

- CBS is ranked 48th among top 50 B-Schools of India on the basis of learning experience. Best in the region
- Ranked 15th in North Zone. 4 points above that last year
- CBS is ranked 68th among top B-Schools of India at National Level. Overall ranking. 7 points above last ranking 2015-16.
- Ranked 94th among top 100 B-Schools on the basis of Placement Performance.
- Ranked 80th among top 100B-Schools of India on the basis of ROI.

Business World 2016-17

- CBS is ranked 62 among top private B-Schools of India and Best in the region.
- CBS is ranked 82 among top B-Schools of India (Private & Public both - Overall ranking)
- CBS is ranked 42 among top 50 B-Schools of India on the basis of Placements.

Careers 360 2016-17

- Careers360 ranked Chitkara Business School AAA+ and Best in the region.

Education World 2016-17

- Education World 2016 ranks CBS 41st among top 50 B-Schools of India and Best in the region.
- Higher Education Review ranks Chitkara Business School 22nd among top 100 B-schools in India