

SHORT TERM COURSE

on

DATA ANALYSIS IN SOCIAL SCIENCES RESEARCH



December 18-22, 2017

Department of Humanities & Social Sciences

National Institute of Technology, Kurukshetra-136119

Email: stcnit2017@gmail.com

National Institute of Technology, Kurukshetra

National Institute of Technology, Kurukshetra, one of the 31 NITs in the country, is a premier centre of learning and research in various disciplines of Engineering and Management. It trains and develops high caliber professionals to serve not only the country but the world at large. Established in 1963 as an REC – a joint enterprise of the Government of India and the Government of Haryana – the Institute was elevated to a National Institute with Deemed University in June 2002. The Institute has made rapid strides in expanding and upgrading facilities, enhancing the quality of education and strengthening the linkage with industry. The Institute alumni are well placed in reputed organizations in India and abroad.

Department of Humanities and Social Sciences

The department of Humanities and social Sciences is one of the thirteen teaching departments of the institute, equips students with the knowledge and social skills that help them successfully manage people and technology. The department is continuously involved in expanding the teaching-learning process to integrate humanistic values and social concerns with technical education. The department also provides research facilities in the area of Management, Economics, Psychology, English and Intellectual Property Rights.

About the Short Term Course

The field of social sciences research is very dynamic and evolving at a rapid pace. One has to be updated with the latest data analysis for the meaningful research in the area of social sciences/management/sciences. Generating data is not a big problem but interpreting the information hidden in the data is a challenging task and it will become simplified if one has the knowledge of analyzing the data. It will not only provide a better result but also contribute significantly to the knowledge base and hence be useful for researchers as well as to the society. The job is simplified with the help of software therefore it is imperative for a researcher to know which software will be suitable for his/her research and how it should be used.

In this context, Department of Humanities and Social Sciences (NIT KKR) endeavors to organize a Short Term Course on “**Data Analysis in Social Sciences Research**”. The appropriateness of techniques provides ample scope to the researchers for investigating the research problem with greater precision, and also helps the researchers in substantiating the research arguments. The Course is designed for Faculty members and research scholars in the field of Social Sciences, Management, Science, Engineering and other relevant disciplines. The Course will definitely enrich the participants in terms of applying the suitable research techniques for producing quality research which would be having the implications on different social strata.

Usefulness of the Course

The course is inter-disciplinary in nature. The students and faculty from Science, Engineering and other disciplines will certainly be benefitted from deliberation during the course, in general and those working in the area of Humanities and Social Sciences in particular.

Objectives of the Course

- To equip the participants with the fundamental knowledge of research and to acquaint them about the techniques of defining research problems
- To acquaint the aspired learners about the tools and techniques for the data analysis in the fields of social sciences/ management/ science research
- To familiarize the participants about structures of research proposals demanded by funding agencies; formats of research papers suitable for SCI/Scopus indexed journals; and effective thesis writing

Learning Outcomes

With completion of the course, participants would be comfortable in defining research problems, analyzing the data with suitable techniques and to present the analyzed data in the form of research publications.

Topics

Research- Fundamentals and defining problems

Basic understanding of data-Tabulation and graphical analysis

Sampling and Questionnaire designing

Hypothesis testing

ANOVA, ANCOVA, MANOVA, MANCOVA

Parametric and Non-Parametric Tests

Factor and Cluster Analysis

Confirmatory Factor Analysis

Structural Equation Modeling

Discriminant Analysis

Multidimensional Scaling and Conjoint Analysis

Regression Analysis –Simple and Multiple

Multicollinearity, Heteroscedasticity and Autocorrelation in Regression Analysis

Model Specification and Diagnostic Testing

Dummy Variable Regression Models

Logit, Probit and Tobit Models

Time series Econometric Analysis

Psychometric properties of a Psychological Test

ARIMA, ARCH, GARCH, VAR, ECM & Cointegration analysis

Software Applications- SPSS, AMOS, STATA, EVIEWS, MATLAB

Research Ethics

Report Writing

Pedagogy

Lectures, along with hands-on practical classes, will be the mode of conducting the Course. The Course is designed to impart not only the theoretical knowledge of the topics mentioned above; rather special emphasis will be given on the software applications part for appropriate research modeling. Participants are encouraged to bring their own laptops with trial version of SPSS, AMOS, EVIEWS etc. for having hand on exercises and getting the maximum advantages of the course.

Who should attend?

Faculty members/ policy practitioners/research scholars/ students from academic Institutions/ Universities can attend the course. Selected number of participants will be invited to attend the course.

Registration Fee for the Course

Participants	Without Accommodation	With Accommodation
Students (PG & MPhil)	Rs. 2,500/-	Rs. 3,000/-
Research Scholar	Rs. 3,000/-	Rs. 3,500/-
Faculty/Academician/ Policy Practitioners	Rs. 5,000/-	Rs. 6,000/-

The Registration fee includes the Course Kit, Certificate, High tea, Lunch, and Tea/Coffee during session breaks. No TA/DA will be paid to the participants. Participants will be selected on first-come-first serve basis in the range of 35 to 45. Certificates will be presented to the participants in valedictory ceremony on the last day of the course.

Mode of Payment of Conference Registration: Online/Demand Draft.

Important Dates

Last date of Registration: 28 Nov. 2017

Confirmation to Participants: 30 Nov. 2017

Course Conveners: Dr Kiran Mor & Dr Shabnam

Course Coordinators: Dr Geeta Sachdeva & Dr Ashwani

Scanned copy of registration form (duly signed by the candidate) and fee receipt can be mailed on Email: stcnit2017@gmail.com

In case of any query contact to:

Dr Shabnam (9416957877)

Dr Geeta Sachdeva (9034820185)

Dr Ashwani (8901422745)



SHORT TERM COURSE

on

DATA ANALYSIS IN SOCIAL SCIENCES RESEARCH

Dec 18-22, 2017

Department of Humanities and Social Sciences,
NIT Kurukshetra (Haryana)

REGISTRATION FORM

Participant's Name : _____

Designation & Department: : _____

Organisation (Affiliation) : _____

Category (Tick) : FACULTY / INDUSTRY / RESEARCH SCHOLAR / OTHERS

If Others, Specify : _____

Address for Communication : _____

Mobile No. : _____

Email : _____

Accommodation Required : YES / NO
(If yes, Specify the dates) _____

Registration fee Detail

A. Demand Draft No*: _____
Issuing Bank & Date : _____

Amount : _____

SBI collect Detail : _____

Signature of the Participant

*In favour of "Director, National Institute of Technology, Kurukshetra" payable at Kurukshetra.

- Registration for the STC can be made through DD and SBI collect.
- SBI collect is available on website of the Institute (<http://www.nitkkcr.ac.in/>)
- Scanned copy of registration form and fee detail should be sent on **Email:**
stcnit2017@gmail.com

Original DD should be submitted to Convener/Cordinator-STC2017, Department of Humanities and Social Sciences, NIT KKR on the first day of course.