

**Short Term Course (e-STC)
on**

**“Advanced Statistical
Techniques for Research In
Social Sciences”**

26th-30th October 2020

An Initiative of
National Institute of Technology Hamirpur
Hamirpur, Himachal Pradesh, India



Organized by
Department of Management Studies
National Institute of Technology, Hamirpur
(H.P.) 177005
<http://www.nith.ac.in/>

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Contact:
Dr. Richa Joshi, Coordinator STC,
Assistant Professor
Department of Management Studies
National Institute of Technology,
Hamirpur (HP)
Mobile: 9711101424

Email: stenith@gmail.com

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Registration:

The interested participants should register by paying registration fee and filling the google form through below link:

<https://docs.google.com/forms/d/e/1FAIpQLSd62P3gj9oHjMi4ORc2qRP1doyrZXAp8Xk-jZEo2nbkH9FzEg/viewform?vc=0&c=0&w=1&flr=0&gxids=7628>

Registration is compulsory for all the delegates.
The registration fee is non-refundable.

- a) Students – 200 Rs + 2% transaction charges
- b) Academia and Industry – 500 Rs + 2% transaction charges

Payment Mode: SBI Collect

(To pay through SBI collect, select Payment Category “Workshop/STC/FDP/Conference”)

Kindly email SBI Collect Receipt No, Name, Date and Amount

Number of Participants

Number of participants is limited for this e-STC Applications will be accepted on first cum-first serve basis.

Last date of Registration: 24th October, 2020.

Resource persons

Faculty from IIMs, IITs, NITs, IIITs and State Universities will deliver the lectures.

Certification

E-certificates will be provided to those participants who have attended at least 75% of the program.

About the institution

The National Institute of Technology, Hamirpur is an Institute of National Importance. The Institute offers B.Tech, M.Tech and PhD programmes in various disciplines of Engineering, Humanities and Sciences.

The Institute is functioning in a vast area of above 250 acres at Anu in Hamirpur district of Himachal Pradesh and is 4 Kms from main bus stand of Hamirpur on Mandi-Jalandhar National Highway (NH-70). The city of Hamirpur is well connected with the rest of the country by road.

Nearest Railway Station: UNA (about 85 Km)

Nearest Airport: GAGGAL (Kangra) (about 85 Km)

About the department

The Department of Management Studies offers full time PG degree programme, viz. Master of Business Administration (MBA). Students get the advantage of dual specialization, out of - Human Resource Management, Marketing Management, Operations Management and Financial Management. The Department also offers Ph.D. programmes on stipendiary and non-stipendiary basis for full time and off campus candidates.

The diversity of the curricula offered through the Department provides the students with the foundation skills that can be used not only in the classroom, but to master challenges in globalized dynamic and competitive markets. This is done through a plethora of channels including lectures, talks, case studies, research projects, group discussion, workshops, seminars, etc. Faculty members possess a blend of academic and professional experience, which facilitates disseminating of knowledge to the students through

both classroom sessions and independent student activities. The faculty is highly qualified with international exposure and motivated to inculcate quest for perfection among the students. Short term Training/Management Development Programmes for industry and faculty are regularly organized by Department of Management Studies with MHRD and AICTE collaboration. The Department has well experienced and dedicated faculty members with different specializations. We have well equipped laboratories with state-of-the-art facilities like servers/workstations, desktops and mobile devices.

About the e-STC

The significance of data and its effective analysis is unavoidable to have a good piece of research and to make a fruitful decision. From students to scholars, individual researchers to research institutes throughout the world come across this data analysis part to carry out their research. Statistics and statistical analysis plays a crucial role in research and analyzing data.

This STC aims to provide hands on training in understanding the concepts in data analysis and advanced statistical techniques for data analysis using SPSS, AMOS and R, which are one of the most widely used software package in the field of Data Science and Management across the world.

This course will help the participants in applying proper research methodology and improving their analysis by applying various statistical techniques. The workshop programme would be useful for overall development of teachers, trainers, researchers and professionals.

Objectives of short term course (e-STC)

- To understand the data analysis techniques
- To build a strong theoretical and conceptual foundation of statistical tools specifically SPSS, AMOS and R
- To provide a platform for faculty and scholars to lead in direction of quality publications.
- To discuss various techniques of literature review.

Topics to be covered

Introduction to Research, Multiple Regression Analysis, Factor Analysis-EFA, CFA, Structure Equation Modeling (SEM), Second order model in SEM, Scale development using SEM, Moderation and Mediation analysis, Basic of R studio, Cluster analysis, Discriminant analysis, Decision Tree, Predictive: Logistic regression, Conjoint analysis, Sentiment analysis, Text mining, Word cloud, using R, Research priorities: How to select research topic, How to write paper for Scopus Index Journal, How to identify appropriate peer reviewed journal (publication perspective), Writing literature review; Bibliometric, Meta analysis, SLR, Ethical issues in research

Pedagogy

Practical examples, group discussions, conceptual lectures, Case analysis and experience sharing are some of the techniques that would be employed in this STC programme.