



Central University of Himachal Pradesh
(ESTABLISHED UNDER CENTRAL UNIVERSITIES ACT 2009)
Dharamshala, Himachal Pradesh-176215

**One-Week Workshop
on
Data Analysis Using SPSS, AMOS & Smart PLS
HPKV Business School, School of Commerce and Management Studies (SCMS)**

Report: Day 1

One-week workshop on “Data Analysis using SPSS, AMOS & Smart PL” organised by Department of Himachal Pradesh Kendriya Vishwavidyalaya Business School (HPKVBS), School of Commerce and Management Studies, Central University of Himachal Pradesh (CUHP) from 29th August -02nd September 2022 began with the inaugural session on 29th August 2022 in the Seminar Hall, Dhauladhar Parisar-I. The resource person of the workshop is Dr. Ajay Kumar Chauhan, Director, Research Shiksha. Deans of the different schools, faculty members of the school, and research scholars of the different departments attended this session.

Prof. Pardeep Kumar, Dean, Academics, CUHP was the chief guest and Prof. Pradeep Nair, Director Research, CUHP was the guest of honor for the inaugural session. The session began with a brief welcome note by the stage committee along with a lamp-lighting ceremony by the dignitaries. After the lamp-lighting ceremony, the guests were felicitated with Himachali caps and bouquets.



Prof. Mohinder Singh, HoD, HPKVBS & Dean of the School then welcomed all the guests and participants. He briefed the gathering about the workshop and introduced the resource person who is an eminent scholar in the field of research. Prof. Mohinder Singh highlighted that the department of HPKVBS is making its best efforts under the guidance of the Vice-Chancellor, Prof. S.P. Bansal to develop the research culture in order to achieve the vision of the University. Prof. Pardeep Kumar, the chief guest, in his address congratulated the department for organising such a relevant workshop for the research scholars. He emphasized that such workshops would help the research scholars to develop their research acumen and tossed the idea of an in-house workshop in near future. The Guest of Honor, Prof. Pradeep Nair,



Central University of Himachal Pradesh
(ESTABLISHED UNDER CENTRAL UNIVERSITIES ACT 2009)
Dharamshala, Himachal Pradesh-176215

appreciated the idea of a hands-on workshop and assured the researcher scholars that such types of workshops would be a regular feature of the University.



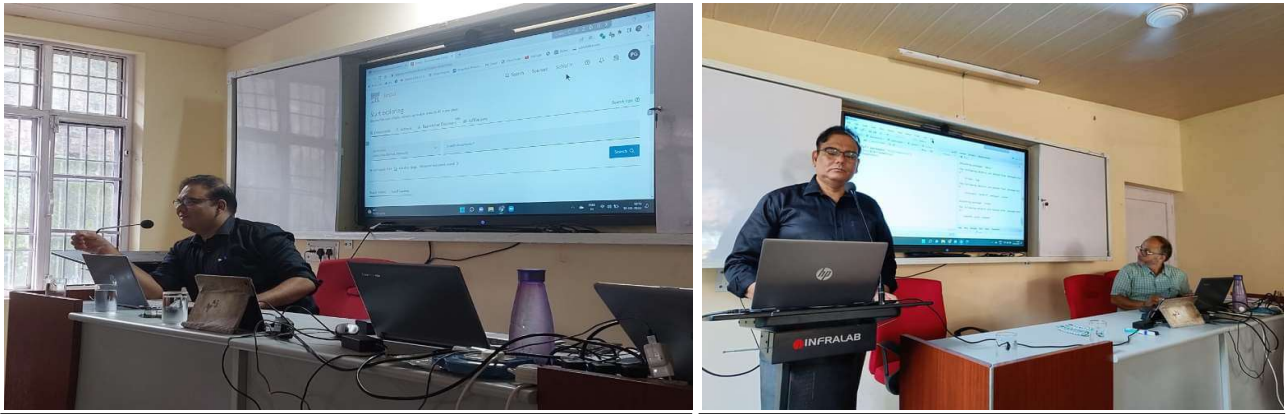
Then, in the inaugural session of the workshop, the resource person, Dr. A.K. Chauhan highlighted the relevance of data analysis in research. He shared the structure of the workshop with the participants and assured them that this workshop would definitely add value to their research journey. The inaugural session ended with a vote of thanks by Dr. Gitanjali Upadhaya, Assistant Professor, HPKV Business School.

Report: Day 2

On the day two (30th August, 2022) of “Data Analysis” workshop organised by Department of Himachal Pradesh Kendriya Vishwavidyalaya Business School (HPKVBS), School of Commerce and Management Studies, Central University of Himachal Pradesh (CUHP), the session started with the warm welcome of the resource person Dr. Ajay Kumar Chauhan, Director, Research Shiksha.

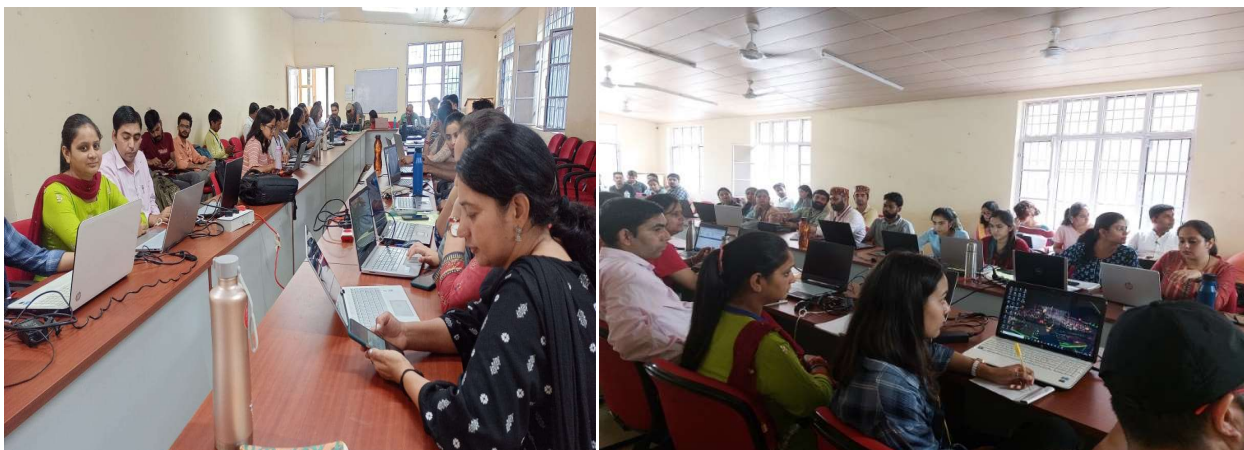
Central University of Himachal Pradesh

(ESTABLISHED UNDER CENTRAL UNIVERSITIES ACT 2009)
Dharamshala, Himachal Pradesh-176215



The major highlights of the session were; conducting Literature review through Bibliometric Analysis using Scopus, Biblioshiny and VOS Viewer along with how to conduct an effective Systematic Literature Review. The resource person also gave an in-detailed insight on conducting Meta-Analysis using Meta Essentials.

The resource person discussed in a very interesting and insightful way about how Bibliometric analysis can help in identifying the potential of the research topic along with the best journals, authors, papers, important and trending keywords using VOS Viewer. Thereafter, the appropriate way of conducting Systematic Literature review was discussed as to how good research questions should be framed along with keeping in mind the research protocol and identifying the answers to proposed research questions.





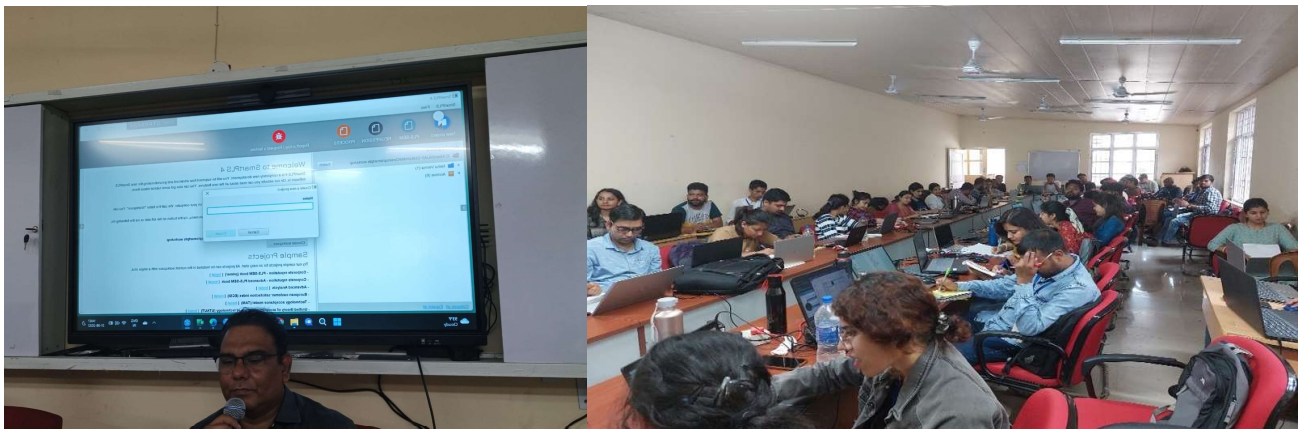
Central University of Himachal Pradesh
(ESTABLISHED UNDER CENTRAL UNIVERSITIES ACT 2009)
Dharamshala, Himachal Pradesh-176215

The post-lunch session focused on conducting Meta-Analysis using Meta-Essentials software. The focus was on understanding the homogeneity and heterogeneity of the data and understanding how the data has to be analysed using the software. The focus was on understanding the valid relation between the variables in the empirical studies.

The session ended with the discussions and various queries of the participants were resolved along with the thanks giving by Prof. Mohinder Singh, HoD, HPKVBS & Dean of the School.

Report: Day 3

One-week workshop on “Data Analysis using SPSS, AMOS & Smart PLS -SEM” organised by Department of Himachal Pradesh Kendriya Vishwavidyalaya Business School (HPKVBS), School of Commerce and Management Studies, Central University of Himachal Pradesh (CUHP) from 29th August -2nd September Day 3 report i.e 31st August 2022 , The resource person of the workshop Dr. Ajay Kumar Chauhan, faculty members of the school, and research scholars of the different departments attended this session.



In the morning, session started at sharp 9:30 am. With ‘INTRODUCTION TO AMOS AND BASIC OF SEM’. In which we have learnt about ‘Covariance based SEM using AMOS’ Under this, resource person deeply explained 4 Assumptions of :

- 1.Normal distribution
- 2.Reliability
3. Validity.
4. Biasness.

It was explained practically to all the participants. Also, sir, explained the "scale development method" .



Central University of Himachal Pradesh
 (ESTABLISHED UNDER CENTRAL UNIVERSITIES ACT 2009)
 Dharamshala, Himachal Pradesh-176215

We learnt about CFA OR EFA. We also learnt about the software AMOS, like what are the uses, where it is used and also did practical practice with Datasets. In the 2nd half, we started with new softwares, i.e., SMART-PLS 4, in which we learnt about how to make diagrams and step by step process. After that, Sir told us about why AMOS or PLS-SEM are used. Afterwards, sir, told us about the models: how to use hypotheses testing using SEM.



After that, the session was open for discussion. That's all about today's learning. The session adjourned at 5:30 pm. At the end, session ended with a vote of thanks and everyone acknowledged the knowledge shared during the session.

Report: Day 4

On 1st September 2022 which was the day 4 of the “Data Analysis” workshop organized by the Department of Himachal Pradesh Kendriya Vishwavidyalaya Business School (HPKVBS), School of Commerce and Management Studies, Central University of Himachal Pradesh (CUHP), the session started with the warm welcome of the resource person Dr. Ajay Kumar Chauhan, Director, Research Shiksha.

The key focus of the whole session was on PLS SEM and AMOS. In first session, the resource person explained about the Structural Equation modelling (SEM), categories of SEM i.e. PLS SEM and CB SEM. The resource person also gave a complete understanding of types of constructs like reflective, formative, zero order, first order and second order constructs and their relationships. The best part of the session was the practical examples and hands on experience of SEM, AMOS and SPSS.

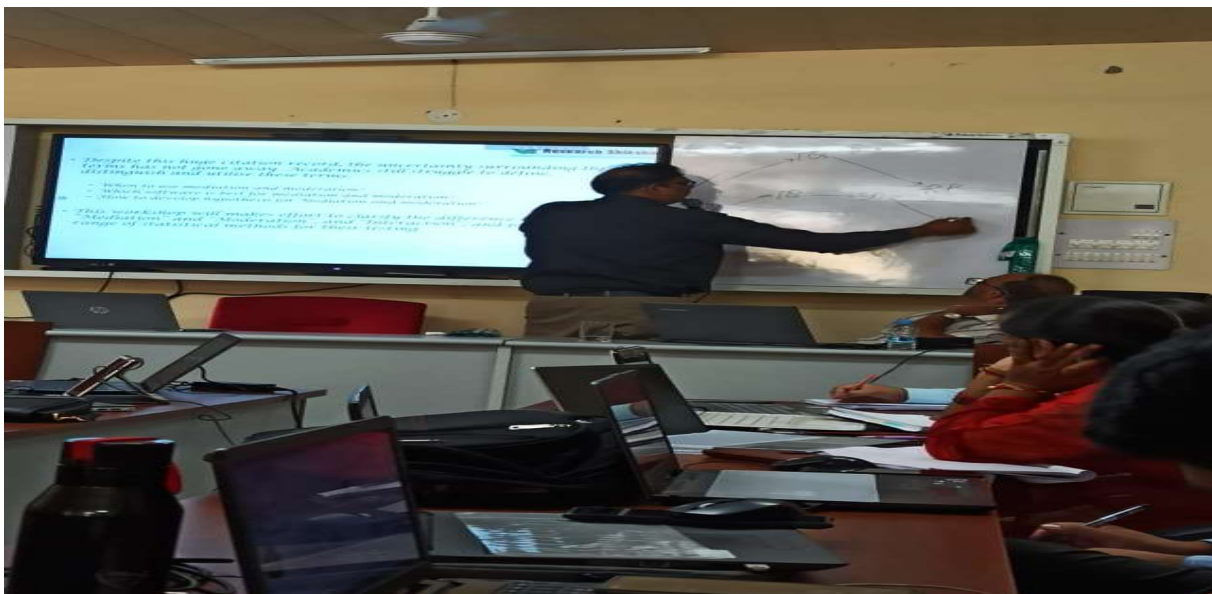


Central University of Himachal Pradesh

(ESTABLISHED UNDER CENTRAL UNIVERSITIES ACT 2009)
Dharamshala, Himachal Pradesh-176215



The participants were made familiar with various statistical tests and techniques to check the interrelationship of different constructs. The resource person also gave a very detailed explanation of how the problems of multicollinearity exists in the data and how it can be tackled.



Central University of Himachal Pradesh

(ESTABLISHED UNDER CENTRAL UNIVERSITIES ACT 2009)
Dharamshala, Himachal Pradesh-176215

The post-lunch session focused on theoretical as well as practical understanding of mediation, moderation and interaction effects. Various types of mediation and moderations were also discussed. The resource person made participants to learn in a very simple and comprehensive way by giving real life examples.



Meanwhile, the doubts and queries of participants were also addressed. The technical session ended with a warm thanks to Dr. Ajay Chauhan, the key resource person for delivering such an excellent session.



The faculty of CUHP along with the participants of various departments of CUHP as well as participants from other colleges and universities pay regards to Dr. Ajay Chauhan for sharing the conceptual and practical knowledge. Prof. Dr. Mohinder Singh, Head, department of HPKVBS and Dean, School of



Central University of Himachal Pradesh
(ESTABLISHED UNDER CENTRAL UNIVERSITIES ACT 2009)
Dharamshala, Himachal Pradesh-176215

Commerce and Management Studies, felicitated the resource person with Himachali Shawl as a token of love and respect.



A group photograph was taken with respected resource person, Dr. Ajay Kumar Chauhan.

Report: Day 5

The valedictory session of One-week workshop on “Data Analysis using SPSS, AMOS & Smart PLS” organised by Department of Himachal Pradesh Kendriya Vishwavidyalaya Business School (HPKVBS), School of Commerce and Management Studies, Central University of Himachal Pradesh (CUHP) in the Seminar Hall, Dhauladhar Parisar-I took place on 2nd September 2022. Deans of the different schools, faculty members of the school, and research scholars of the different departments attended the session.



Central University of Himachal Pradesh

(ESTABLISHED UNDER CENTRAL UNIVERSITIES ACT 2009)
Dharamshala, Himachal Pradesh-176215



The chief guest of the workshop was Prof. Amrish Kumar, honourable secretary to Vice Chancellor, Dean students welfare and Prof. Manoj Saxena, campus coordinator.

The session began with a brief welcome note by the stage committee along with a lamp-lighting ceremony by the dignitaries.

Prof. Mohinder Singh, HoD, HPKVBS & Dean of the School then welcomed all the guests and participants and congratulated and paid gratitude to Keynote speaker Dr. Ajay Chauhan, all the participants, faculty members and committees for the successful completion of the workshop. Various enriching learning experiences were shared by the research scholars from department of HPKVBS, Travel and Tourism, Mass Media and various other departments.





Central University of Himachal Pradesh
(ESTABLISHED UNDER CENTRAL UNIVERSITIES ACT 2009)
Dharamshala, Himachal Pradesh-176215

Prof Amrish Kumar, the chief guest, in his address congratulated the department for successful completion of the workshop and motivated the participants with his research experiences. The Guest of Honor, Prof. Manoj Saxena highlighted about how a researcher has to be self determined and stay open to learning in the research journey, he also spoke about NEP 2020 and the emphasis that it lays on research.



In the end the chief guest Prof. Amrish Kumar, Prof. Manoj Saxena and Prof. Mohinder Singh distributed certificates to all the participants of the workshop. The valedictory session ended with a vote of thanks by Dr. Manpreet Arora, Assistant Professor, HPKV Business School.

Head of the Department
HPKV Business School
School of Commerce and Management studies