



RUKMINI DEVI

Institute of Advanced Studies

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DOSSIER

On

Dossier submission on one week FDP on structural equation modelling using AMOS

RDIAS

On

Jun 09, 2018



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Prof.(Dr.)Raman Garg

Director, RDIAS

FORM A

Proposal :

- **Name Of the event to be organized :** Dossier submission on one week FDP on structural equation modelling using AMOS
- **Date :** Jun 09, 2018
- **Time :** 9:00 - 5:00
- **Venue :** RDIAS Lab 3
- **Motivation for the activity :** • It has been long believed that the most important resource that any institution of higher education has is its faculty members who teach knowledge and skills to students. With the advent of new technologies, management education has undergone a paradigm shift in the recent years. Among the many challenges that the modern day management teaching professionals face, the most conspicuous is to become an effective researcher and a teacher. Therefore, it is more important to enrich the intellectual capital by focusing on new knowledge integrated with the tools available like SPSS, Excel AMOS.
- **Organized By:** RDIAS

Form B

Part 1

Aim of the event :

Today the profession of management teaching has become quite challenging. Business schools teachers are expected to be both effective teachers and researchers. Faculty development programs (FDPs) have proven to be successful for improving teaching skills in higher education. Faculty Development Programmes (FDPs) aimed at honing the teaching and research skills of prospective, new and seasoned management teachers, researchers and trainers. It has been found by many researchers and practitioners that FDPs produce promising outcomes in the learning and teaching practices and recommended that teachers in higher education should attend FDP training activities on regular basis. Knowledge of applied research tools and methodology along with the use of software helps in integrating research and practice. To enhance the research skills of faculty members, RDIAS conducted a One Week Faculty Development Programme on "Structure Equation Modeling" from May 28 – June 2, 2018. The FDP thus aimed to cover the topics of hypothesis development and testing, Regression Analysis, AMOS, Types of Scales, Factor Analysis, SEM – Mediation, Moderation analysis.

Part 2

Abstract :

The Programme commenced with brief Introduction about RDIAS, Dr, Neeraj Kaushik and all the candidates. Prof. Raman Garg welcomed Dr. Neeraj Kaushik by presenting a bouquet. Thereafter he discussed the importance of the FDPs and requested everyone to utilize his /her valuable time by attending all the sessions.

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Day 1

The first day commenced with brief welcome to all the participants. Thereafter, the forum was opened by Dr. Kaushik. On the first day, research process, formulation of objectives, hypothesis development and testing, sampling, reliability and validity were elaborated upon. Sir briefed everyone about the meaning of hypothesis, null hypothesis and alternate hypothesis. The process of formulation of hypothesis was explained followed by the various tests. Sir also explained, role of Literature Review in the development of models and discussed univariate, bi variate and multivariate analysis.

Day 2

On the second day Dr. Neeraj discussed Regression Analysis – Linear and Multiple. The assumptions of applying regression were discussed thoroughly and the participants were able to learn how to perform regression analysis on SPSS and Excel. Further, use of various types of t test in descriptive and experimental research, its decision rule and other parametric tests were discussed. Thereafter, important concepts like Partial Correlation and Residual analysis were elaborated and discussed along with the way of reporting the results of simple and multiple regression analysis.

Day 3

The third day was about hand shake with AMOS. Sir gave a basic introduction about factor analysis using AMOS software. Its basic rules, steps to conduct an analysis, problems that could be encountered during the process were discussed. Practical illustrations were solved on Path Analysis using AMOS. Along with this application of AMOS in regression analysis was discussed. Thereafter, the results from SPSS and AMOS were compared. Sir addressed the various questions by participants and the session ended with a lively interaction with all the faculty members.

Day 4

Sir started the session by discussing various types of scales. The session included in-depth discussions on Likert Scale its assumptions, statements and Reliability concepts. The exploratory factor analysis- making of a factor, factor extraction, removing of statements, use of KMO was explained thoroughly by Sir along with its practical applications. The role of factor analysis in data reduction was elaborated. Along with this how to report the results of factor analysis in the research papers were explained by Sir. Further, the concepts of validity and normality were discussed.

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Day 5

Day 5, started with the basic introduction of the Confirmatory factor Analysis. Model developing exercise was done. Concepts like goodness of fit, degree of freedom, orders of CFA, path analysis using CFA, Mediation and moderation concepts in CFA, use of macros, various types of validity, measures to improve the results and reporting them were focused upon and discussed in depth.

Day 6

On sixth day, the higher effects in SEM i.e. Mediation analysis in SPSS was discussed. It covered its process, and complete interpretation of the results. Thereafter, Moderation analysis was touched upon. On Day six, a quick revision was done on all the concepts that were discussed so far. Further, the practical applications of Higher effects on Structure Equation Modeling were discussed thoroughly, queries of the audience were addressed.

Valedictory Session

The FDP ended with the concluding remarks and a vote of thanks by Professor (Dr.) Raman Garg. Thereafter the resource person Dr. Neeraj Kaushik was honored with memento as a token of remembrance and all participants were given the certificates.

Part 3

Conclusion

One Week FDP enriched all the external as well as internal participants with rigorous learning right from the basic research knowledge to structure equation modeling in softwares namely SPSS and SEM. The FDP was very well appreciated by all the participants and equipped all the participants with new tools and techniques to apply in their respective research areas. Detailed explanation of Factor analysis, Objectives formulation, Likert Scale opened new avenues for researchers while triggering their inquisitive minds. Overall, the FDP proved to be highly fruitful, enjoyable and great learning experience for all the participants.

SnapShot Of Other Activity

