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FDP on Multivairate Analysis using R

TITLE	FDP on Multivairate Analysis using R
Date	Feb 18, 2019 - Feb 22, 2019
Summary	Multivariate Analysis uses statistical techniques which allow us to focus and analyze more than 2 statistical variables at once. It is a collection of methods used when several measurements are made on an object in different samples. The measurements are referred to as variables and the objects are called units. Multivariate Analysis helps in summarizing data and reducing the chances of spurious results. Multivariate Analysis is generally used in capability based design, analyzing of concepts in changing scenarios, analyzing alternatives to fulfill customer needs and in identifying critical design drivers and their co-relations across different hierarchical levels. Structural equation modeling (SEM) is a statistical technique for building and testing statistical models, which are often causal models. It is a hybrid technique that encompasses aspects of confirmatory factor analysis, path analysis and regression, which can be seen as special cases of SEM. The multivariate analysis was done with the help of R and RStudio software. The purpose of this workshop was to make the participants aware about from the meaning of research to advanced level of multivariate analysis using R and RStudio. Dr. Neeraj Kaushik, Associate Professor-NIT Kurukshetra, the guest speaker, started his presentation by exemplifying the latent variable. He explained the participants about the importance of research, its steps, scale, factor analysis, correlation and regression, confirmatory factor analysis and path analysis with the help of various statistical tools. He encompassed on how to deal with constructs with low model fit. The FDP was indeed an interactive and knowledgeable. The guest speaker answered all the queries well and the participants were completely satisfied. Participants found the workshop to be really productive and a wonderful learning experience.