INTRODUCTION
The proposed certificate programme aims at enhancing the knowledge base of the academicians who wish to understand and use advanced data analytical tools in their research. The programme provides an excellent opportunity to gain hands on experience on “Advanced Data Analytics Tools and Models in Management” through lectures, case study discussions, and software applications.

PROGRAMME OBJECTIVES
This programme is a capacity building exercise which focuses on equipping the participants with quantitative and qualitative research tools and techniques. The major objectives of the programme are:
• To develop an understanding of data measurement and issues & challenges related to that.
• To provide exposure to fundamental and advanced data analysis tools in management research.

PROGRAMME CONTENTS
1. Fundamentals of data measurement and analysis
2. Descriptive vs. Inferential Analysis
3. Hypothesis testing (Z, t, Chi-square, F test), ANOVA, MANOVA.
4. Correlation and Regression Analysis
5. Cross Sectional Econometric Analysis
6. Time Series Analysis
7. Panel Regression
8. Forecasting Techniques
9. Factor, Cluster and Discriminant Analysis
10. Structural Equation Modeling (SEM)
11. Data Envelopment Analysis for Benchmarking
12. Simulation Models and Tools

TARGET AUDIENCE
The programme is designed for faculty in TEQIP II institutes under quality circle of IIT Delhi and other IITs. Selection for all 30 seats will be done on first come first served basis.

PEDAGOGY
The programme consists of lecture sessions, case study discussions and software applications such as SPSS, AMOS, DEAP, STATA, ARENA and Eviews.

HOW TO APPLY
Submit the duly filled registration form latest by May 20, 2015. List of selected candidates will be displayed on IIT homepage by May 26, 2015.

Address for form submission
Dr. Seema Sharma
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Indian Institute of Technology Delhi
Hauz Khas, New Delhi, 110016 India

Kindly email a soft copy of the form to the helpdesk.