

**FACULTY DEVELOPMENT PROGRAMME**

**ON**

**Research Methodology  
and  
Data Analysis using SPSS**

**Venue:**

**Tecnia Institute of Advanced Studies**

**Date:**

**24th June to 28th June 2019**

*Organized by*



**TECNIA INSTITUTE OF ADVANCED STUDIES**

**NAAC ACCREDITED GRADE "A" INSTITUTE**

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**INSTITUTIONAL AREA, MADHUBAN CHOWK, ROHINI, DELHI- 110085**

Tel: 91-11-27555121-24, E-Mail: [directortias@tecnia.in](mailto:directortias@tecnia.in); Website: [www.tiaspg.tecnia.in](http://www.tiaspg.tecnia.in)





## Event Report

<b>Event Category</b>	:	<b>Faculty Development Programme</b>
<b>Topic</b>	:	<b>Research Methodology and Data Analysis using SPSS</b>
<b>Date</b>	:	<b>24th June to 28th June 2019</b>
<b>Time</b>	:	<b>9.00AM to 2.00 PM</b>
<b>Venue</b>	:	<b>TIAS</b>
<b>Resource Person</b>	:	<b>Mr. Harsh Kumar Singh Data Scientist &amp; Consultant Team Analytic Square www.traininginsas.com, Email- analyticsquare@gmail.com Contact- 9899714317</b>
<b>Beneficiaries</b>	:	<b>Faculties, PhD scholars &amp; Researchers</b>
<b>Convener</b>	:	<b>Dr. Sandeep Kumar</b>

## Learning Objectives

1. To provide participants a platform for discussion on the statistical requirements of research
2. To train and inculcate participants the skills for Data Analytics using SPSS
3. To train participants through practical sessions on data handling & analysis
4. To discuss with participants on the interpretations of results and presentation
5. To analyze data using basic and advance statistical techniques in SPSS
6. To Interpret SPSS output tables and report findings

## ABOUT FDP

This one week FDP was intended to train participants with basic & advance data analysis skills using SPSS to produce quality research work. The key focal point of the training was to identify the right statistical tools and techniques for different research objectives and carrying out data analysis using SPSS.

The participants have learnt techniques about data entry and analysis in SPSS. In FDP Complete hands-on training methodology was used targeting on 'do how' rather than only 'know how'. FDP have enabled them to analyze & interpret the concerned data through SPSS.

## Day 1(24th June 2019)

The first day of the Programme commenced with the Inauguration of the FDP by the Chairman of Tecnia Group of Institutions Dr. R. K. Gupta. He was Guest of Honour on this occasion. He was felicitated by Dr. Ajay Kumar, Director, TIAS.



**Dr. R K Gupta, Chairman, Tecnia Group of Institution & Dr. Ajay Kumar, Director, TIAS felicitating Resource person Mr. Harsh Kumar Singh**



**Dr. Rajni Rathi from PDM University receiving FDP Kit from Dr. Ajay Kumar Director**



**Dr. Sanjay Srivastava & Dr. Vandana Raghav from TIAS and Dr. Rashmi Chaudhary & Dr. Richa Gupta from DU at Inaugural**

The introduction to the FDP was given by Dr. Ajay Kumar, Director. He welcomed all the participants to Tecnia Institute. The participants were from Delhi University, MD University, Amity University, PDM University, Mewar University, SVS University, VIPS, MAIMS and TIAS. He discussed the UGC norms & regulation of Faculty Research and also the need of SPSS in Research.

In his speech Dr. R K Gupta congratulated all the participants. He further added that organizing & attending such faculty development programs would enhance their skills of practical concepts of research. He appreciates the Director and R&D Incharge for promoting such kind of development Programme for the faculties. He also motivates the researchers and faculties about how to keep continuous interest in the research. He suggested & encouraged Director and R&D Incharge to organize such events on regular basis.

Dr. R K Gupta also felicitated Resource person Mr. Harsh Kumar Singh. Director Dr. Ajay Kumar was felicitated by Dr. Sandeep Kumar. Mr. Gagandeep Singh, Registrar TIAS was also present there. Mr. Harsh Kumar Singh Resource person also interacted with the participants. Inaugural session was concluded with vote of thanks by Ms. Geetika, Assistant Professor and asked participants to proceed for their FDP class.

The topics covered on first day include Introduction to Software-SPSS, Data Structure, Data Types, Import and Export Data, Data Manipulation, Data Transformation. Mr. Harsh Kumar Singh explained about the various techniques of SPSS, Research Variables and their measurements. This made the participants to learn about the basic entries in SPSS hence developing their research skills.

## Day 2 (25th June 2019)

The topics covered on second day include Aggregation and Summary Reports, Descriptive Statistics, Functions and Formulas Sets.

In continuing with previous Day, Mr. Harsh explained participants in details about Aggregation & Summary Reports, Descriptive Statistics and Functions & Formulas Sets. The session helped the participants in developing their concepts on Descriptive Statistics.



Mr. Harsh Kumar Singh delivering lecture at FDP



Participants at FDP



### Day3: (26th June 2019)

The topics covered on third day include Hypothesis, One Sample T-Test, Two Sample T-Test & Paired T-Test. Mr Harsh kumar explained Hypothesis and said that It is important to remember that hypotheses are never about data, they are about the processes which produce the data.

He further explained that one sample t-test is a statistical procedure used to determine whether a sample of observations could have been generated by a process with a specific mean.



Participants at FDP



Participants at FDP

He also discussed how to test Hypothesis, One Sample T-Test, and Two Sample T-Test & Paired T-Test in SPSS.

### Day 4 (27th June 2019)

The topics covered on fourth day include One Way ANOVA, Multivariate ANOVA, Correlation & Chi-Square.

Mr. Harsh explained that ANOVA is short for Analysis of Variance. He said that the main purpose of an ANOVA is to test if two or more groups differ from each other significantly in one or more characteristics. He further discussed how to test one way ANOVA in SPSS.



**Mr. Harsh Kumar discussing with participants**



**Mr. Harsh Kumar solving queries of participants with participants**

Mr. Harsh discussed that sometimes we wish to know if there is a relationship between two variables. He added that a simple correlation measures the relationship between two variables. The variables have equal status and are not considered independent variables or dependent variables.

He also discussed how to test Correlation & Chi -square through SPSS.

### **Day 5 (28th June 2019)**

The topics covered on fifth day include Linear Regression & Diagnosis. Q & A Session, practice with Data Sets and practice with Case Studies were regular features of this FDP. He also discussed how to test Linear Regression through SPSS.

In valedictory session Convener Dr. Sandeep Kumar interacted with the participants and enquired about the feedback of FDP. The feedback of the participants was very positive and motivational for the organizers. Professor Rajesh Bajaj & Mr. Gagandeep Singh, Registrar TIAS also interacted with the participants. Certificates were given by Dr. Rajesh Bajaj, Mr Gagandeep Singh, Dr. Sandeep Kumar and Resource Person Mr. Harsh Kumar.

## Valedictory Session



**Ms. Geetika, anchoring the Valedictory session**



**Dr. Sandeep Kumar, Convener addressing participants**



**Participants at Valedictory**



**Participants at Valedictory**





**Dr. Sandeep, Prof. Rajesh Bajaj & Mr. Gagandeep Singh at Valedictory**

**FDP Certificate distribution**



**Group Photo Session**

At the end, the valedictory session was concluded with a vote of thanks by Ms. Geetika, Assistant Professor, TIAS, in which she has been paid her gratitude towards the resource person who has spared his time with participants to share his expertise. She also given thanks to participants come from various institutes to learn & enhance their skills in Research using SPSS.

### **Learning Outcome:**

1. Participants have learnt about statistical requirements of research
2. Participants have learnt to use in SPSS Data Analytics.
3. Participants have analyzed data using basic and advance statistical techniques in SPSS.
4. Participants have interpreted SPSS output tables and report findings.

In totality, all the sessions were very much informative. The discussed areas are of great benefit for the participants as the topics match with the academic curriculum. Participants were enlightened with the most widely used advance SPSS techniques. This in turn will help in motivating Faculties & Researcher to use SPSS in their concerned Data analysis.

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