



B.V. Patel Institute of Management, Uka Tarsadia University

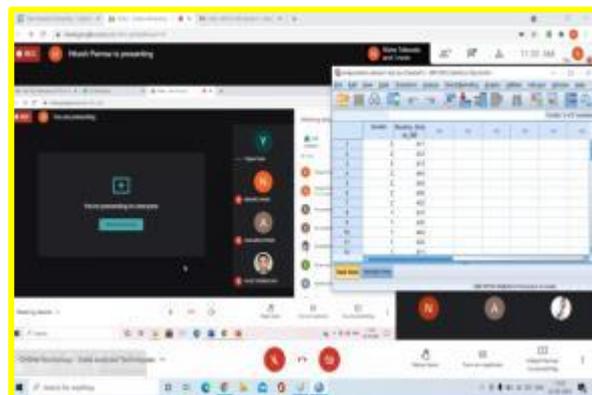
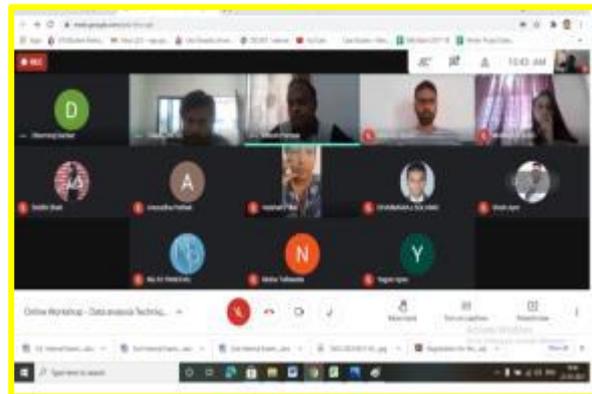
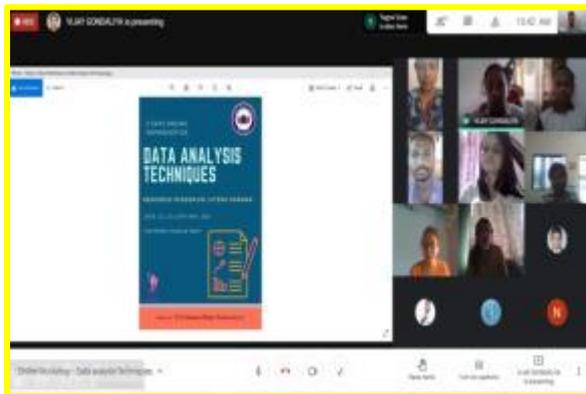


Date: 25/05/2021

Three Days Workshop (Online) on Data Analysis Techniques

Platform: Google Meet (Link: <https://meet.google.com/psb-frro-spt>)

A Three Days Workshop (Online) on Data Analysis Techniques was organized for faculty members of BBA and B.Com. The main objective of workshop is to provide exposure to the faculty members' to data analysis techniques and its applications (specifically: parametric test, non-parametric test, factor analysis – exploratory and structure equation modeling). Workshop was conducted by **Dr. Hitesh Parmar** is a Faculty, School of Business Management, S.P. University, Gujarat.



The workshop was conducted through online mode (Google Meet) interactive session, research problems of participant and practical exercise in group for application-based learning. On the first day of workshop parametric and non – parametric tests were discussed with its application by using SPSS. Second day of workshop was all about practice session.

Everyone has to perform at least four to five tests and submit assignment. On the third day Structure Equation Modeling was explained by using AMOS. Overall workshop was very much useful for all faculty members for further research and guiding students for their project work.

The t Distribution

- Assumptions & Requirements:
 - The variable (X) is normally distributed
 - Random sample of size n from the underlying population
 - Very similar to Z distribution as sample size gets "large" ($n > 30$)
 - The variance of the two groups is not different (if different, use alternative formula)
 - $(n-1)$ degrees of freedom

Steps in Factor Analysis

- Step 1** Compute a k by k intercorrelation matrix. Compute the factability of the matrix.
- Step 2** Extract an initial solution
- Step 3** From the initial solution, determine the appropriate number of factors to be extracted in the final solution
- Step 4** If necessary, rotate the factors to clarify the factor pattern in order to better interpret the nature of the factors
- Step 5** Depending upon subsequent applications, compute a factor score for each subject on each factor.

Multiple Comparisons

Treatment	Control	Mean Difference		t-Statistic	p-Value	Significance
		Mean	SE			
1	2	0.0000	0.0000	0.0000	0.0000	0.0000
1	3	0.0000	0.0000	0.0000	0.0000	0.0000
1	4	0.0000	0.0000	0.0000	0.0000	0.0000
2	3	0.0000	0.0000	0.0000	0.0000	0.0000
2	4	0.0000	0.0000	0.0000	0.0000	0.0000
3	4	0.0000	0.0000	0.0000	0.0000	0.0000

Tests of Normality

Variable	Kolmogorov-Smirnov ^a		Shapiro-Wilk	
	Statistic	df	Statistic	df
Variable 01	.100	41	.985	41

^a.Lilliefors Significance Correction
* This is a lower bound of the true significance.