



Gujarat National Law University

GUJARAT NATIONAL LAW UNIVERSITY

GNLUCLE



Training Programme on Advanced Applied Statistics

using IBM SPSS Statistics for Legal Studies

13th to 16th September 2018



About the course

This course on Applied Statistics is designed to offer the understanding about the fundamentals of statistical analysis. Further, this course introduces the basics of statistics for law students to summarize numerical and categorical data obtained from surveys, experiments, etc. The topics included are about different data types, measures of location, variability, shape, and association between variables. The participants are expected to learn the fundamental concepts of estimation, confidence intervals, hypothesis testing and apply appropriate tests for a population mean, proportion, variance and difference, independence, and goodness to fit.

SPSS is a Windows based program/software for **editing and analysing all sorts of data**. SPSS is used by market researchers, health researchers, survey companies, government entities, education researchers, marketing organizations, data miners, and many more for the processing and analysing of survey data. SPSS is capable of handling large amounts of data and can perform all of the analyses covered in the text and much more. SPSS is commonly used in the Social Sciences and business world.

Aims

To equip the participants with the tools of Applied Statistics using IBM SPSS Statistics for Legal Studies, with which they will be able to carry out advanced and detailed research activities. Often, legal research lacks a quantitative appreciation. This course aims at providing the participants with an ability to use empirical data and analyze them subsequently to give them a fruitful conclusion to their research project.

Potential benefits

- ✚ It will enable the participants to understand the importance of empirical data in legal research.
- ✚ It will enable the participants to relate their understanding of economics and analyse laws regarding efficiency by using tools of Econometrics/ Applied Statistics.
- ✚ By using SPSS tools, the students would be able to appreciate the quantitative data at hand in terms of its varied use.
- ✚ It will empower the participants to put on their skills in this interdisciplinary area to research inputs which will help them in publications and thus add scholarship in Law and Economics, from an Indian perspective.

Methodology

Lectures, case study, data analysis with the help of SPSS and e-content.

Provisional course schedule

Date	Time	Resource Person	Topic
DAY 1			
13 th September, 2018	10.00 am to 11.30 am (1 hour 30 Minutes)	Dr. Gaurang Rami	Types of Data and Scale of Measurements <ul style="list-style-type: none"> ✓ Primary and Secondary Data ✓ Cross Section, Time Series, Panel Data ✓ Cardinal and Ordinal Data which includes Ratio, Interval, Nominal and Ordinal Scale Questionnaire Preparation and Introduction of IBM SPSS Statistics <ul style="list-style-type: none"> ✓ Sample questionnaire preparation ✓ Creating file, define a variable, entering data, modified data etc.
13 th September, 2018	11.45 am to 1.00 pm (1 hour 15 minutes)	Dr. Gaurang Rami	Frequency Distribution and Charts <ul style="list-style-type: none"> ✓ Frequency distribution ✓ Pie chart ✓ Bar chart ✓ Chart editing
13 th September, 2018	2.00 pm. to 3:30 pm. (1 hour 30 minutes)	Dr. Gaurang Rami	Descriptive Statistics Measures of Central Tendency <ul style="list-style-type: none"> ✓ Mean (Arithmetic Mean, Geometric Mean, Harmonic Mean, Combined Mean/ Group Mean, Weighted Mean, Trimmed Mean), Median, Mode
13 th September, 2018	3:45 pm to 5:15 pm (1 hour 30 minutes)	Dr. Gaurang Rami	Descriptive Statistics Measures of dispersions <ul style="list-style-type: none"> ✓ Maximum, Minimum, Range, Mean Deviation, Standard Deviation, Coefficient of Variation, Skewness, Kurtosis etc.
13 th September, 2018	5.30 pm to 6:30 pm (1 hour)	Dr. Gaurang Rami	Multiple Response Analysis <ul style="list-style-type: none"> ✓ Multiple Response Frequency ✓ Multiple Response Cross-tabulation

DAY 2

14 th September, 2018	2.00 pm to 3.45 pm (1 hour 45 minutes)	Dr. Gaurang Rami	Parametric Tests <ul style="list-style-type: none">✓ One sample t-test✓ Independent Sample t-test✓ Paired / Related Sample t-test✓ One Way ANOVA
14 th September, 2018	4:00 pm to 5.30 pm. (1 hour 30 minutes)	Dr. Gaurang Rami	Non-Parametric Tests <ul style="list-style-type: none">✓ Mann – Whitney Test✓ Wilcoxon signed-rank test✓ Kruskal-Wallis test
14 th September, 2018	5.30 pm to 6.30 pm. (1 hour)	Dr. Viral Pandya	Contemporary Case Analysis

DAY 3

15 th September, 2018	10.00 am to 11.30 am (1 hour 30 Minutes)	Dr. Gaurang Rami	Non-Parametric Tests <ul style="list-style-type: none">✓ Mann – Whitney Test✓ Wilcoxon signed-rank test✓ Kruskal-Wallis test
15 th September, 2018	11.45 am to 1.00 pm (1 hour 15 minutes)	Dr. Gaurang Rami	Correlation Analysis <ul style="list-style-type: none">✓ Assumptions along with testing of Normality✓ Pearson Technique✓ Spearman Technique✓ Kendall's Tau 'b'
15 th September, 2018	2.00 pm to 3:30 pm (1 hour 30 minutes)	Dr. Gaurang Rami	Analysis of Association <ul style="list-style-type: none">✓ Chi-square test✓ Phi Coefficient✓ Craemer's V Coefficient✓ Contingency Coefficient
15 th September, 2018	3:45 pm to 5:00 pm (1 hour 15 minutes)	Dr. Gaurang Rami	Regression Analysis <ul style="list-style-type: none">✓ Linear Trend Regression✓ Multiple Regression Analysis✓ Logistic Regression

15 th September, 2018	5.00 pm to 6.30 pm (1 hour 30 minutes)	Dr. Vipul Patel	Developing Scales in research
DAY 4			
16 th September, 2018	9.30 am to 11.30 am (2 hour)	Dr. Gaurang Rami	Multivariate Analysis ✓ Exploratory Factor Analysis
16 th September, 2018	11.45 am to 1.15 pm (1 hour 30 minutes)	Dr. Gaurang Rami	Multivariate Analysis ✓ Discriminant Analysis
16 th September, 2018	2.00 pm to 3.00 pm (1 hour)	Dr. Gaurang Rami	Forecasting Using Expert Modeller (Time Series Analysis) Discussion
16 th September, 2018	3.00 pm to 4.30 pm (1 hour 30 minutes)	Dr. Ritesh Patel	Cluster Analysis with SPSS

Number of Participants

20 Participants/Students

Who may participate?

Under Graduate students & Post Graduate students (Law, Social Science, Commerce, Management and Science).

Professional and Academician.

Note: Students/Participants who have completed basic course of SPSS or equivalent of the same will be given priority.

Fees

1000/- for GNLU participants

1500/- for External participants (Includes only tuition fees and registration)

(Excluding boarding & lodging in GNLU)

How to apply

EOI's are invited for this programme. Participant interested should click the link given below

<https://docs.google.com/forms/d/e/1FAIpQLSeytzlHnfYbURm22-Pkn87yPOBhyQhZuBw0hUJTX6BjSo-Kvw/viewform>

The Organizers reserves rights for shortlisting participants based on EOI's received.

Last Date 4th September, 2018.

Resource Persons

Dr. Gaurang Rami

Professor, Department of Economics,
Veer Narmad South Gujarat University, Surat

Dr. Ritesh K. Patel

Section Head [MBA & MBA-Integrated Section], &
Asst. Prof., Centre for Governance Systems (CGS), &
Member Secretary, Case Study Development
Centre(GTU-CSDC)Gujarat Technological University
(GTU), Ahmedabad

Dr. Viral Pandya

Co-Dean of Faculty and Academic Affairs
Associate Professor of Management, GNLU

Dr. Vipul Patel

Associate Professor, Shanti Business School,
VU-GNU Centre of Excellence, Ahmadabad

Organizing committee

Coordinator

Dr. Deesha Khaire, Assistant Professor of Law
Member, Center for Law and Economics

Co-coordinator

Ms. Shaily Trivedi, Teaching and Research Associate
(Law)



Gujarat National Law University

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