



PRIMAX FOUNDATION

(Reg. No. JNR-S211-2015-16)
Bengaluru, Karnataka, India.



Be a Hero. Always say,
"I Have no fear"

In Association with



Shrimati Indira Gandhi College, Tiruchy



Organizing

14 -DAY VIRTUAL
FACULTY DEVELOPMENT PROGRAM

**"Research Methodology and Data Analysis
for Ph.D Research Scholars & Faculty"**



For Registration



5.00 PM to 8.00 PM

About FDP Workshop

Research plays an indispensable role in today's contemporary Academia and Statistics is considered the heart of research. It evaluates the credibility and usefulness of the information, and makes appropriate decisions. Most of the users of statistics, as a decision-making tool, feel handicapped in selecting an appropriate statistical tool, understanding the theoretical concept and interpretation of results in a meaningful way. This workshop has been designed and aimed to facilitate with hands-on training for the faculty members, research scholars and corporate under the areas of Arts and Science, Management and allied subjects, like economics, statistics, computer applications, commerce, banking, organizational behavior, business policy, sociology, marketing, and labour relations.

FDP Objectives



1. To provide knowledge on Research Methodologies and Design Aspects.
2. To help the participants familiarize themselves with the statistical Concepts & tools with Different statistical software.
3. To provide hands-on training on data analysis.
4. To Develop new techniques in Research Methodology to improve the quality of research work.
5. To get the knowledge to the participants, how to write Funded project & Research article.

Who can attend?

Faculties, Research Scholars, Corporates & Marketing Analysts & PG Students.

Participants can register irrespective of any subjects.



Important Guidelines



- ✂ **Registration fee for Indian Participants Rs.3,000 & Foreign Participants \$ 70**
- ✂ Plat form: **GOOGLE MEET / ZOOM CLOUD MEET/MICROSOFT TEAMS.**
- ✂ Meeting link will be shared only to the Registered participants.
- ✂ **Demo/Students Trial version software will be provided to the registered participants.**
- ✂ Maximum Intake 50 Participants on first come and first serve basis.
- ✂ Hard Copy of the certificate will be sent to the Participants address through speed post.
- ✂ The Certificate will be provided to all the registered participants who attend all the sessions.

Day	Date	Topics to be Covered	Resource Person
Day-1	08/05/2021 (5.00 PM to 6.30 PM)	Introduction to Research Formulation of objective Formulation of Research Problem Formulation of Hypothesis Construction of Good and Quality questionnaire	Dr. D. Kumaresan Principal Lakshmi Narayana College Dharmapuri.
	(6.30 PM to 8.00 PM)	Research design & Sampling Design, Significance Level, Meaning of Population, Sample, Types of Sample, Calculation of Sample size (Calculation of Sample Size by Manual & Online)	Dr. K.V. Ramanathan Associate Professor St. Claret College, Bengaluru.
Day-2	09/05/2021 (5.00 PM to 8.00 PM)	SPSS Data: Define Variable Property & Data Entry in to SPSS, Importing, Data entry in SPSS Define Multiple response set, Validation, identify duplicate Cases, identify unusual cases, Sort Case, Sort variables, Transpose, Merge File, Copy Data set, Split file, Select Case. SPSS Transform: Compute variable, Count value, recording into same variable, recording into different variables, Automatic recode, Visual & Optimal Binning, Rank Cases, Date & Time Wizard-Create Time Series, Replace Missing Values.	Prof. Dharmendra H Visiting Faculty Ramaiah Institute of Technology, Bengaluru.
Day-3	10/05/2021 (5.00 PM to 6.30 PM)	Descriptive & Frequency statistics, One Sample t-Test, Independent Sample t-Test, Paired t-Test, Chi-square test.	Dr. Sathish. P Associate Professor, Bharath (Deemed to be University), Chennai.
	6.30 PM to 8.00 PM)	One-way ANOVA & Two-Way ANOVA, Multidimensional Scaling (Mapping Tools), Reliability Test (Using Cronbach Alpha)	Dr. R. Venkatesa kumar Professor, Department of Managment Studies Pondicherry University, Pondicherry.

Day-4	11/05/2021 (5.00 PM to 8.00 PM)	<ul style="list-style-type: none"> MANOVA, ANCOVA, MANCOVA Mann Whitney U test Friedman Test Mann Whitney U test Run Test Kruskal Wallis test Test for Normality Wilcoxon test Correspondence Analysis 	Dr. Kumaresan Principal, Lakshmi Narayana College Dharmapuri.
Day-5	12/05/2021 (5.00 PM to 8.00 PM)	<ul style="list-style-type: none"> Correlation: Pearson correlation, Partial correlation, Multiple Correlation. Regression: Simple Regression, Multiple Regression, assumption of Regression & Logistic regression 	Dr. Atul Shiva Faculty, University School of Business Chandigarh University, Mohali.
Day-6	13/05/2021 (5.00 PM to 8.00 PM)	<ul style="list-style-type: none"> Cluster Analysis & Discriminant Analysis. Factor Analysis. Hierarchical Clustering. Means Clustering. 	Dr. R. Kasilingam Professor, Department of Management studies, Pondicherry University, Pondicherry.
Day-7	14/05/2021 (5.00 PM to 8.00 PM)	EXCEL <ul style="list-style-type: none"> Advance Excel (Basic All Important Functions) Basic Mathematical Functions Accounting Functions Statistical Functions & Graphs Financial Functions 	Prof. Dharmendra H Visiting Faculty, Ramaiah Institute of Technology, Bengaluru
Day-8	15/05/2021 (5.00 PM to 8.00 PM)	AMOS <ul style="list-style-type: none"> Introduction about AMOS (From Basic) Model Fit Summary Adjusted Goodness of Fit Index (AGFI) Comparative Fit Index (CFI) Goodness of Fit Index (GFI) Normated Fit Index (NFI) RMR, RMSEA 	Dr. R. Ravanan Joint Director of Collegiate Education Chennai Region, Chennai.
Day-9	16/05/2021 (5.00 PM to 8.00 PM)	<ul style="list-style-type: none"> Modification Indices, Model Fit Summary Construct Reliability (CR) Discriminant Validity, Linear Model. Average Variance Extracted (AVE) Convergent Validity 	Dr. Vikas Arya Faculty, Rajalakshmi School of Business School, Chennai.
Day-10	17/05/2021 (5.00 PM to 8.00 PM)	PLS <ol style="list-style-type: none"> Determining Sample Size Using G*Power <ul style="list-style-type: none"> Effect Size Statistical Power Types of Power Understanding G*Power Software Basics of SEM (Structural Equation Modeling) <ul style="list-style-type: none"> Measurement Model (Formative vs Reflective) Understanding Different Geometric Symbols Drawing path model- Smart PLS-3 Measurement Model Evaluation <ul style="list-style-type: none"> Evaluation of Reflective Measurement Model Convergent validity – Different Approaches Discriminant validity <p>i) Fornell – Larcker Criterion ii) HTMT Ratio (Heterotrait-Monotrait Ratio)</p>	Dr. Vikas Arya Faculty, Rajalakshmi School of Business School, Chennai.
Day-11	18/05/2021 (5.00 PM to 8.00 PM)	<ol style="list-style-type: none"> Measurement Model Evaluation-Model Fit Structural Model analysis & evaluation (Partial Least Squares) <ul style="list-style-type: none"> Moderating Effect Analysis Mediating Effect Analysis Hypotheses Testing Using Bootstrapping Importance Performance Map Analysis Direct, Indirect and Total Effects 	Dr. Amit Kumar Nag Associate Professor and Head, Department of Commerce, Bhopal School of Social Sciences, Bhopal.
Day-12	19/05/2021 (5.00 PM to 8.00 PM)	Eviews <ul style="list-style-type: none"> Introduction, Classical Linear Regression Model and its assumptions, Understanding the Data Generation Process, Unit Root tests. Univariate Time series Model: ARMA/ARIMA models for forecasting 	Dr. T. Mohanasundaram Associate Professor, M.S. Ramaiah Institute of Technology, Bengaluru.
Day-13	20/05/2021 (5.00 PM to 8.00 PM)	<ul style="list-style-type: none"> Granger Causality test Multivariate Time series models – Cointegration analysis Vector Error Correction Model Time Varying Volatility models (ARCH/GARCH family models) 	Dr. T. Mohanasundaram Associate Professor, M.S. Ramaiah Institute of Technology, Bengaluru.
Day-14	21/05/2021 (5.00 PM to 6.00 PM)	Writing Good literature review and method of writing literature review- Format of Bibliography APA and MLA Format link with online and useful tips	Dr. P. Murugan Faculty, School of Management Studies, University of Hyderabad. Hyderabad.
	(6.00 PM to 7.00 PM)	Publishing in top -tier Journals: Pitching the right one and right methods, strategies for writing quality Research paper in SCOPUS Indexed Q1, ABDC Journals.	Dr. P. Malyadri CSSR Senior Fellow, Research Advisor in Commerce & Management, ICSSR Research Institute, Ministry of Education, Govt. of India.
	(7.00 PM to 8.00 PM)	Writing Good Research Proposal for Funded Project- Tips to get funded projects in various funding agencies in India & Foreign (like ICAI, ICSSR, DST, DSIR, IIPA, New Delhi etc.)	Dr. P. Karthikeyan Faculty, School of Management Studies, Kongu Engineering College, Erode.

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"Happiness Comes from Giving Happiness"

All the best