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Bengaluru, Karnataka, India

In Association with

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ASC DEGREE COLLEGE
Affiliated to Bangalore University
Rajajinagar, Bengaluru, Karnataka

14 -DAY VIRTUAL (42 HOURS) FACULTY CAPACITY BUILDING PROGRAM

ON

RESEARCH METHODOLOGY AND DATA (Primary, Secondary)

ANALYTICS FOR Ph.D RESEARCH SCHOLAR AND FACULTY

15st Aug to 28th Aug | **2023**
Time : 6.00 PM to 9.00 PM

For Registration

✔ CLICK ME

Registration Fee
Rs. 3,500 /-

About FDP

Research plays an indispensable role in today's contemporary Academia and Statistics is considered to be the heart of research as it evaluates the credibility and usefulness information, and make appropriate decisions. Most of the users of statistics, as a decision-making tool, feel themselves handicapped in the selection of 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 to familiarize 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, so as to improve the quality of research work
5. To get knowledge to the participants, how to write Funded project & Research article

Who can attend?

- Faculties, Research Scholars, Corporates & Marketing Analyst & PG Students
- Participants are register irrespective of any subjects

Key Information

- **Duration: 14 days (15-08-2023 to 28-08-2023)**
- **Timings:** 6.00 PM to 9.00 PM
- **Registration fee :** Rs.3,500 /- for participants from India and 100 US $ for participants from outside India

Note:

- Only 50 seats are available, therefore registration shall be made on first come first serve basis
- Recorded session link will be provided (Only View Option Max. Five Days)
- All participants will receive **'Certificate of Participation'** after successful completion of the program
- Registration fee can be done through NEFT/IMPS Transaction or Paytm only
- **Necessary Demo / Trial version of statistical software will be provided to the registered participants**

PAYMENT GATEWAY

Name of the Account : **Primax Foundation**

Account Number : **166111100001608**

Bank Name : Union Bank of India

IFSC Code : UBIN0816612

Place : Kengeri, Bengaluru, Karnataka, India.

**PRIMAX FOUNDATION
(Gpay/Phonpe/ Paytm)**
UPI ID: primaxfoundation2015@okicici
Ph: 9108556012

CONTENTS

Day	Date	Topics to be Covered	Resource Person
Day- 1	15/08/2023 (6.00 PM to 8.00 PM)	• Introduction to Research • Process of Research • Identification of Problem & Formulation of Problem • Formulation of Objectives & Hypotheses • Construction of Good Questionnaires • Method of Data Collection • Population, Census, Sample and Method of Sample • Meaning of Parametric and Non-parametric • Research design	**Dr Sindhu A.N** Faculty, PG Department of Commerce Mount Carmel College(Autonomous) Bengaluru, Karnataka
	(8.00 PM to 9.00 PM)	• Significance Level & Confidence Interval • Population, Sample • Calculation of Sample size (Manual & Online) • Z-Score	**Dr. K.V. Ramanathan** Professor of Finance & Marketing Director, Primax Foundation & Primax Eduacademy Bengaluru, Karnataka
Day- 2	16/08/2023 (5.00 PM to 9.00 PM)	• **SPSS Data:** Define Variable Property & Data Entry in to SPSS, Importing, 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. Descriptive & Frequency statistics • **Parametric Test:** Normality Test T- Test (One Sample, Independent & Paired t test) One way & Two-way ANOVA, ANCOVA, MANOVA, MANCOVA Content analysis & Reliability Test Multidimensional Scaling (Mapping Tools) Reliability Test (Using Cronbach Alpha)	**Dr. Dharmendra H.** Assistant Professor Department of MBA Acharya Institute of Graduate Studies Soladevanhalli, Bengaluru, Karnataka
Day- 3	17/08/2023 (5.00 PM to 9.00 PM	• **Non-Parametric tests** Mann Whitney U test, Kruskal Wallis test Wilcoxon test, Friedman Test Run Test, Sign Test, Chi-Square Test • **Marketing Analysis** Factor Analysis, Cluster Analysis Multidimensional Scaling (Mapping Tools) Conjoint Analysis	**Dr. Dharmendra H.** Assistant Professor Department of MBA Acharya Institute of Graduate Studies Soladevanhalli, Bengaluru, Karnataka
Day- 4	18/08/2023 (6.00 PM to 9.00 PM)	• **Correlation:** Pearson correlation, Partial correlation, Multiple Correlation, Rank Correlation • **Regression:** Simple Regression, Multiple Regression, assumption of Regression & Logistic regression	**Dr. Subbbulakshmi Somu** Assistant Professor Dept. of Commerce & Mgt. Dayananda Sagar College of Arts Science and Commerce Bangalore, Karnataka
Day- 5	19/08/2023 (6.00 PM to 9.00 PM)	**AMOS** • Introduction about AMOS (From Basic) • Model Fit Summary • Goodness of Fit Index (GFI) • Adjusted Goodness of Fit Index (AGFI) • Normated Fit Index (NFI), Comparative Fit Index (CFI) • RMR, RMSEA, Modification Indices, Model Fit Summary • Average Variance Extracted (AVE) • Construct Reliability (CR), Convergent Validity • Discriminant Validity, Linear Model	**Dr. R. Ravanan** Joint Director of Collegiate Education Chennai Region Chennai, Tamilnadu

Day	Date/Time	Topics		Speaker
Day- 6	**20/08/2023 (6.00 PM to 9.00 PM)**	**Data analysis using- R** • Introduction and Preliminaries about R • Handshake with R and RStudio • Data Management in R • Importing Packages and libraries in R • Multiple Regression using R • Discriminant analysis using R • Case Study based analysis		**Dr. Vishal Shukla** Associate Professor School of Business AURO University, Surat
Day- 7	**21/08/2023 (6.00 PM to 9.00 PM)**	**Data Analysis using Excel** • PV, NPV, NPER, PMT, RATE, IRR, SLN, SYD, IPMT, DB • Sensitive Analysis, Simulation Analysis • Linear programming problem, Transportation problem • Assignment model & Network analysis • Descriptive Statistics (Mode, Median, Variance, Percental, Quartile, rank) • T-Test, Z-test, ANOVA, Regression, Correlation, Reliability Analysis • Financial Graphs (Advance)		**Dr Pradeep N E** Assistant Professor Faculty of OB & HR School of Business and Management Christ University Bangalore, Karnataka
Day- 8	**22/08/2023 (6.00 PM to 9.00 PM)**	I) **Basics in Time series Analysis** Why Econometrics? -Data Structure -Understanding Time series data White noise process - Stationary Stochastic Process Data Generation and Identification Process (Eviews) Steps in Econometric Modelling – Formation of Hypothesis; Model Specification; Model - Estimation; Statistical inference - Significance tests (t-test, F-test, R^2 and Adj.R^2) and Adequacy tests (adhering to assumptions of OLS) II) **Unit-root tests and ARIMA family models** Unit-root tests – Standard (ADF, PP, KPSS - Power and Size effects) and Break-point test - Graphs and Correlogram Modelling OLS – R^2, Adj. R^2, F-Statistics, D-W Statistics ARIMA Family Models – Box-Jenkins methodology - AR, MA, ARMA and Integrated - Processes – Model identification using Correlogram. Model Selection Process -Forecasting using ARIMA Forecast Evaluation -Diagnostic Checking – Normality, Autocorrelation and Heteroscedasticity		**Dr. T. Mohanasundaram** Associate Professor - Dept. of MBA M.S. Ramaiah Institute of Technology Bengaluru, Karnataka
Day- 9	**23/08/2023 (6.00 PM to 9.00 PM)**	III) **Multivariate Modelling (Long-run models) -** Introduction to Cointegration EG Cointegration test - Johansen's Cointegration test- Vector Error Correction Model (VECM) IV) **Multivariate Modelling (Short-run models) -Vector Autoregression (VAR)** Granger-Causality test; Granger non-causality test - Impulse Response Function Variance Decomposition-In-sample forecasting using OLS-Dummy variable model		
Day- 10	**24/08/2023 (6.00 PM to 9.00 PM)**	V) **Volatility Analysis -Measuring Variance – Traditional methods** Introduction to ARCH models – Volatility Clustering; Leverage Effect; Leptokurtosis Effect of Heteroskedasticity and Autocorrelation in the residuals Estimating ARCH modelling: Mean equation and Conditional Variance Equation Estimating GARCH model- Estimating T-ARCH; E-GARCH models ARCH in Mean model (ARCH-M model)-Introduction to BEKK and DCC GARCH		

		VI) **Panel Data Analysis- Cross-section vs. Pooled Data -Pooled Data vs. Panel Data** Composite Error terms and its significance-Short-panel vs. Long Panel Short-Panel: Fixed Effect Model and Random Effect Model Hausman Test -Breush Pagan LM Test -Holistic view of Short-panel analysis VII) **Long Panel analysis: Panel Unit-root test -Panel VAR** Panel Cointegration -Research Paper discussion on Time-series analysis Research Paper discussion on Panel data analysis -Q & A and Feedback	
Day- 11	25/08/2023 (6.00 PM to 9.00 PM)	• Basics of LaTeX • Document Structure, Packages • Writing Mathematics Using LaTeX • Formatting Table • Typesetting for Research Paper and Thesis writing	**Dr.G.Thamizhendhi** Assistant Professor Department of Mathematics Sri Vasavi College Erode, Tamilnadu
Day- 12	26/08/2023 (6.00 PM to 9.00 PM)	**Tableau** • Introduction and Getting Started with Tableau • Creating Data Visualizations • Creating Dashboards • Maps (SYMBOL MAPS, FILLED MAPS, DENSITY MAPS, MAP LAYERS) • Advanced Analytics: Trends, Forecasts, Clusters, and other Statistical Tools • Creating Customized Charts • Creating Dashboards	**Mr. Visveswaran Vaiyapuri** Former data consultant to IT Sector Adjunct professor at Gitam University Visiting faculty to Premium B-School Bengaluru, Karnataka
Day- 13	27/08/2023 (6.00 PM to 9.00 PM)	**NVivo** • Introduction to Qualitative Research with Nvivo • Importing the data in Nvivo • Coding and Uncoding in Nvivo • Creating Charts in Nvivo • Raising Queries in Nvivo • Comparison Diagrams in Nvivo • Creating framework matrix in Nvivo • Analyzing tweets in Nvivo • Data Visualizations for Qualitative Data	**Dr. S. Gokula Krishnan** Associate Professor & Research Supervisor Global Academy of Technology Bengaluru, Karnataka
Day- 14	28/08/2023 (6.00 PM to 9.00 PM)	• Writing Good literature review and method of writing literature review- • Format of Bibliography APA and MLA Format link with online and useful tips	**Prof. (Dr.) Manoj Mishra** Professor of Economics College of Business and Economics Salale University Fitche, Ethiopia
		• Publishing in top -tier Journals: Pitching the right one and right methods, strategies for writing quality Research paper in SCOPUS Indexed Q1, ABDC, WOS, Journals.	**Dr Sonia Singh** Director Toss Global Management, UAE Associate editor of IJBSR Scopus Index journal Dubai. UAE
		• Witing 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, Tamil Nadu

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