



ST. FRANCIS INSTITUTE OF MANAGEMENT & RESEARCH

Gate No. 5, Mount Poincur, S. V. P. Road, Borivali (West), Mumbai - 400 103.

(APPROVED BY AICTE, DTE RECOGNISED AND AFFILIATED TO UNIVERSITY OF MUMBAI)

AN ISO 9001:2015 CERTIFIED AND NAAC "A" GRADE ACCREDITED INSTITUTE

In association with
Xavier Association of Management Institutes- XLRI, Jamshedpur

Presents

A Faculty Development Programme Par Excellence

Quantitative and Qualitative Data Analysis Using 'R' and Atlas Ti



3rd - 8th December, 2018

ABOUT SFIMAR



St. Francis Institute of Management & Research (SFIMAR) was established in 2002 by 'The Society of the Congregation of Franciscan Brothers' to impart quality education in the field of Business Management. SFIMAR offers Masters in Management Studies (MMS) Programme, Post Graduate Diploma in Management (PGDM) Programme and a three-year part-time Master's Degree Programme (Financial Management and Marketing Management streams).

Vision:- To flourish as a seat of learning of international standards for developing an entrepreneurial class of value-based industrial leaders empowered with techno-managerial competence to sustain innovation for building global business of the future.

The Institute's programmes and activities are designed to act as a nurturing and mentoring ground for developing functional knowledge, skills and expertise in various management disciplines, fostering creative and innovative ideas, encouraging entrepreneurship and leadership strides, and adhering to sustainable and ethical business practices.

ABOUT THE PROGRAMME

The significance of data and its effective analysis is required for a good piece of research and for arriving at a fruitful decision. Statistics and statistical analysis plays a crucial role in research and analyzing data.

The aim of this Faculty Development Programme is to provide hands on training in understanding the concepts in data science and statistical analysis using R programming for quantitative data analysis and ATLAS ti for qualitative data analysis.

PROGRAM OUTCOME

At the end of the workshop, participants would be able to :

- ✓ Get familiar with R programming language, R studio and ATLAS ti
- ✓ Apply Visualization & Exploratory Analysis using R and ATLAS ti
- ✓ Understand statistical analysis using R programming and qualitative data analysis using ATLAS ti

WHO SHOULD ATTEND THE PROGRAMME

The program is suitable for faculty members and research scholars.

PROGRAMME SCHEDULE

Monday : 3rd December, 2018

Visualization & Exploratory Analysis using R

- ★ Introduction to Statistical Analysis
- ★ Data and Data Types, Types of problem
- ★ Introduction to R/ R studio, Essentials of R programming & useful R packages
- ★ Basic computation in R, Data Types, Objects & Control Structures
- ★ Basic Graphs - Histogram & Density Plots, Box plots, Treating missing values & working with categorical and continuous variables
- ★ Descriptive Statistics

Tuesday : 4th December, 2018
Inferential Statistics

- ★ Probability and Probability Distribution
- ★ Normal Distribution and test for Normality in R
- ★ Hypothesis testing
- ★ An Introduction to Parametric Testing
- ★ Test for Variance (F-test, Bartlett's test)
- ★ Test for Mean (One Sample t-Test, Independent Sample t-Test, Dependent Sample t-Test, One Way ANOVA, Two Way ANOVA) Hands-on tutorial

Wednesday : 5th December, 2018
Hypothesis Testing

- ★ Test for Attribute Data (2 sample p test and chi-square test)
- ★ An introduction to Non-Parametric Testing
- ★ Runs Test, Mann Whitney U Test, Kruskal Wallis Test, Friedman Test, Wilcoxon Test

Basics of Regression Analysis Approach: Model Estimation

- ★ Correlation Analysis
- ★ Hands-on tutorial
- ★ Linear Regression Model fitting

Thursday : 6th December, 2018
Regression Modelling

- ★ Model Diagnostics
- ★ Hands-on tutorial
- ★ Logistic Regression Model fitting, Multivariate Regression Modelling

Friday : 7th December, 2018
Qualitative Research

- ★ Introduction and Review of Literature
- ★ Conceptual and Theoretical Framework
- ★ Research Design and Methodology (including Sampling and Data Collection)

Saturday : 8th December, 2018
Data Analysis

- ★ Formative and Summative Analysis
- ★ Atlas. Ti Software
- ★ Research Writing

Dr. Ashok Sarkar

B.Tech (University of Kolkata), P.G.D. in SQC & OR (Indian Statistical Institute) and Ph.D (Jadavpur University)



Dr. Ashok Sarkar has been associated with the Indian Statistical Institute and engaged in training Engineers and Managers on Six Sigma, Lean Six Sigma, Business Analytics, SPC, DoE and mentoring Six Sigma/Quality Improvement projects. Over the years, he trained many engineers of different organizations and guided applications of the same. A few of them are L&T-Electrical Business Group, Aditya Birla Management Services, Mahindra and Mahindra, Farm Equipment Sector, Reliance Industries Ltd (polyester mfg. group), Ashok Leyland Group of Compay and many more.

Dr. Sunil Damodaran Santha

Associate Professor at Tata Institute of Social Sciences, Mumbai MSW (MG University), Ph.D. (IIT Madras)



An academic with keen interests in the field of environmental risks, climate justice and livelihood uncertainties, Dr. Sunil strive towards understanding the role of social institutions and participatory action in reducing vulnerabilities and strengthening just adaptation practices. He believes in action research towards innovating participatory methods of entrepreneurial action and emergent livelihoods.

Dr. Sinimole K. R.

Asst. Professor at SFIMAR, Mumbai Ph.D. (Tata Institute of Social Sciences) Master's degree in Operations Research and Computer Application (Cochin University of Science & Technology)



Sinimole K.R. is an academican with keen interest in the field of Operations, Statistics and Analytics. She has a rich experience of over 15 years in academia. Her research interest lies in Organizational Performance Evaluation. She is a recipient of prestigious "Dr. Sharad Joshi Outstanding Management Research Paper Award" instituted by SAMSHODHN Trust, Pune in the year 2012.

Participation Fees :-

Participation Category	Fees	Early Bird Discounted Fees before 5 th November, 2018	Group Discount
Academicians	₹ 14,750	Individual :- 10% Group :- 5% (Additional)	10% applicable for all categories with 3-5 participants 20% applicable for all categories with more than 5 participants
Research Scholar	₹ 10,030		

* Rates include GST.

* Additional 30% discount for Xavier Association of Management Institutes

INCLUSIONS

- ✓ FDP Kit
- ✓ Course Material
- ✓ Lunch and Refreshments for the six days
- ✓ Certificate of Participation

ACCOMMODATION FACILITY

Room Type	Rates per Day	
	AC	Non AC
Single Occupancy	₹ 1500	₹ 1000
Twin Sharing	₹ 1200	₹ 700

* Rates include accommodation only

MODE OF REGISTRATION & PAYMENT DETAILS

- Online Registration Form is available on www.sfimar.org
- Cheque / DD to be drawn in the name of "SFIMAR (CHRD) A/C"
- Direct Payment / Bank Transfer: Payment to be made to :
 - Bank Name: Catholic Syrian Bank
 - Account Name: SFIMAR (CHRD) A/C
 - Account No. 033103169256190003
 - Account type: Savings
 - City: Mumbai
 - Branch Location: Borivali (W)
 - IFSC: CSBK0000331

*Kindly e-mail the funds transfer receipt to fdp@sfimar.org to confirm participation.

Programme Coordinators

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