



# PRIMAX FOUNDATION Bengaluru, Karnataka

(Registered under the Karnataka Societies Reg. Act 1960)  
Reg. No. JNR-S211-2015-16



In Association With

## DARSHAN DEGREE COLLEGE

(Recognized by the Govt. of Karnataka & Affiliated to Bangalore University)  
Kengeri, Bengaluru



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

### 10<sup>th</sup>

Two Day – National Level Workshop

## “APPLICATION OF RESEARCH METHODOLOGY & DATA ANALYSIS USING SPSS & AMOS”

( A Complete hands on work)



**Date: 25<sup>th</sup> to 26<sup>th</sup> August 2018** Time 8.30 AM to 5.30 P.M

Venue : **College Auditorium**

Mysore Road, Opp. R. V. College, Bengaluru - 560 059. Karnataka , India.

Contact: Prof. T. Rajeswari Ph: 08971725451 & Prof. Chandrika Ph : 9902705492

[www.primaxfoundation.com](http://www.primaxfoundation.com)

## ABOUT PRIMAX FOUNDATION

**Primax Foundation® is Registered under the Karnataka Society Reg. Act 1960 (12A and 80G ), Bangalore, Karnataka, India.** Primax Foundation is established with towering ideals of imparting quality and non-profitable services to the society through Journals, Seminars, Workshops, Educational Training & Skill Development, Study Circles, Counseling & Rehabilitation, Initiating Research Activities etc., for total personality development in the society. Primax Foundation is an upcoming Training and Development Center at Bangalore offering a variety of need based training programs, through on and off campus modes. The primary aim is to ensure employability for the students and molding them to suitably fit into all aspects of corporate requirements. In addition, its intention is to upgrade the quality of research work among the faculty members involved in Science & Humanities, Commerce, Management Education and the allied fields to ensure that all the research work undertaken, is gainfully employed by the industry, society and corporate world. Its operational objective is to disseminate, strengthen and enhance knowledge, across all sections of the society.

### About Darshan College

“A Unique Campus for Quality Education & Academic Excellence”

St. Anthony's Institutions ( Dharshan College) Bengaluru, is run by the capuchin Franciscan fathers of the Holy Trinity Province of Karnataka. It was established in 2009 with a view to providing the best in academics for students in Commerce, computers, Business Management and Administration by preparing them to quality and succeed in various highly competitive career streams. The institutions include St. Anthony's pre university college, Darshan college of Commerce Management Computer Applications and College Hostel. It is a home away from home, with excellent hostel facilities, infrastructure and dedicated teaching staff who mould, mend and form the future of the nation and of the Globe. It has a learning environment and a fraternal ambiance where one feels welcomed and comfortable. It is an institution which treats everyone equally with respect and honor regardless of gender, religion, ethnic origin and Nationality. The education imparted in this institute is an ongoing process and continuous commitment for the emancipation of the humankind. Hence it Nurtures, invests, cultivates and develops young minds and their talents so that the future generation remains always creative, Innovative and responsible for the Economic and Social growth of the Nation and of the Globe.

“An Abode of wisdom that endures HOLISTIC DEVELOPMENT to the leaders of Tomorrow”



### About the Workshop

Most of the users of statistics, as a decision making tool, feel themselves handicapped in selection of an appropriate statistical tool, understanding the theoretical concept and interpretation of results in a meaningful way. It is really difficult for a person who is not well versed with research methodology and the core philosophy of statistics. The present workshop aims to expose the participants towards simple and exhaustive ways of data analysis through interactive and practice based sessions along with theoretical learning. Well designed and structured training sessions covering the topics outlined in the programme will be organized. The topics have been so chosen that the issues of research methods and data analysis may be understood by even those participants who do not have any initial background of statistics. This workshop is designed to appeal the different learning styles, with an emphasis on active interactive participation through lab sessions running along with theory sessions. Participants will be provided with sample data set to analyse so that they may gain confidence and expertise in conducting research in their respective subject domains.

### Objectives of the workshop

- To help the participants to familiarize with the statistical concepts.
- To train the participants in data entry through SPSS and AMOS
- To help the participants in descriptive and inferential analysis
- To develop confidence as independent SPSS and AMOS data analyst.
- To facilitate the establishment of a network of Researchers

### Programme Methodology

Program would be delivered through combination of:

1. Interactive Lectures & Discussions
2. Hands-on Practice

### Who can Participate?



- Research Scholar,
- Faculty Members and
- Corporates.

## Our Chief Resource Person



**Dr. R. RAVANAN**, M.Sc., M.Phil., Ph.D.,  
Principal, Presidency College, Chennai  
General Secretary, Tamilnadu Statistical Association (TNSA), Tamilnadu  
Treasurer, Indian Society for Probability and Statistics (ISPS), India

He has about 25 years of research, consultancy and teaching experience in the application of Statistics to Bio-statistics especially in the estimation of HIV/AIDS. He has extensive experience in the application of statistical concepts to HIV/AIDS. He has been teaching and training Advanced Operation Research, Stochastic Processes, Statistical Inference and Multivariate methods to Post Graduate students and researchers and have provided consultancy support to scientists in the field of biomedical sciences and was part of multi-disciplinary research teams in charge of providing statistical guidance. He has more than 25 years of experience in using statistical software's SPSS and AMOS.

### Program Schedule – 25<sup>st</sup> August 2018

Registration of Participants		( 8.30 AM to 9.00 AM)										
<b>09-00 A.M. To 09.30 A.M.</b>	Inaugural Session Chief Guest <b>Dr. R. Krishna</b> Professor & Group Director, Don Bosco Group of Institutions, Bangalore. <b>Dr. Rev. Fr. Anil Sequeira</b> Vice-Rector, Darshan Institute of Theology, Kengeri. <b>Prof. Fr. George Monis</b> Principal, Darshan Degree College, Kengeri. <b>Dr. V. Selvaraj.</b> Secretary of Primax Foundation, Bangalore, Karnataka.											
<b>Practical -I 9.30 am – 11.00 am</b>	<b>Statistical Concepts and its Application</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">1. Population and Sample,</td> <td style="width: 50%; border: none;">1. Parameter and Statistic</td> </tr> <tr> <td style="border: none;">2. Organizing data</td> <td style="border: none;">2. Sampling Techniques</td> </tr> <tr> <td style="border: none;">3. Determine sample size</td> <td style="border: none;">3. Stages in Data Analysis</td> </tr> <tr> <td style="border: none;">4. Procedure for Testing of Hypothesis</td> <td style="border: none;">4. Concept of P value</td> </tr> <tr> <td style="border: none;">5. Parametric and Non-parametric test</td> <td style="border: none;">5. Interpretation</td> </tr> </table>		1. Population and Sample,	1. Parameter and Statistic	2. Organizing data	2. Sampling Techniques	3. Determine sample size	3. Stages in Data Analysis	4. Procedure for Testing of Hypothesis	4. Concept of P value	5. Parametric and Non-parametric test	5. Interpretation
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Refreshment (Tea/Coffee/ Biscuits)		(11.00 A.M. to 11.15 A.M)										
<b>Practical -II 11.15 A.M - 1.00 P.M</b>	<b>Steps in analyzing data with SPSS</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">1. Enter your data into a data file</td> <td style="width: 50%; border: none;">1. Read the data file</td> </tr> <tr> <td style="border: none;">2. Provide labels for input file</td> <td style="border: none;">2. Transform the data into suitable form</td> </tr> <tr> <td style="border: none;">3. Prepare Descriptive Statistics</td> <td style="border: none;">3. Prepare graph the data</td> </tr> </table>		1. Enter your data into a data file	1. Read the data file	2. Provide labels for input file	2. Transform the data into suitable form	3. Prepare Descriptive Statistics	3. Prepare graph the data				
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Lunch		( 1.00 PM to 1.30 PM )										
<b>Practical -III 1.30 PM – 3.30 PM</b>	<b>Statistical Techniques in Univariate and Bivariate Analysis using Secondary data</b> 1. Hypothesis Testing for a Single Population 2. Hypothesis Testing to compare Two Populations 3. Hypothesis Testing to compare Multiple Populations (ANOVA) (Using SPSS - One Sample t-Test, Two Independent Samples, Paired Sample t-Test, One way ANOVA, Two way ANOVA, Chi-square test & Discriminant analysis)											
Refreshment (Tea/Coffee/ Biscuits)		(3.30 P.M to 3.45 P.M)										
<b>Practical -IV 3.45 PM – 5.30 PM</b>	<b>Bivariate Quantitative Data:</b> 1. Testing Independence of Two Categorical Variables 2. Correlation Analysis & Regression Analysis <b>Non-Parametric Test</b> 1. Mann Whitney U test, 2. Krushkal Wallis test, 3. Wilcoxon test, 4. Friedman Test <b>Reliability Analysis, Mapping Tools</b>											

26<sup>th</sup> August 2018

<b>Practical -V</b> 9.00 AM – 11.00 AM	<b>Multivariate Analysis</b> 1. Multiple Regression Analysis 2. Exploratory Factor analysis (EFA)
<b>Refreshment ( Tea/Coffee/ Biscuits ) (11.00 AM to 11. 15 AM)</b>	
<b>Practical -VI</b> 11.15 AM – 1.00 PM	<b>Structural Equation Model (SEM) using AMOS</b> 1. Model Fit Summary 2. Goodness of Fit Index (GFI) 3. Adjusted Goodness of Fit Index (AGFI) 4. Normated Fit Index ( NFI) 5.Comparative Fit Index ( CFI) 6.RMR 7.RMSEA
<b>Lunch ( 1.00 PM to 1 .30 PM)</b>	
<b>Practical -VII</b> 1.30 PM - 3.30 PM	<b>Confirmatory Factor Analysis (CFA) using AMOS Based on one Factor</b> 1. Modification Indices, 2. Model Fit Summary
<b>Refreshment ( Tea/Coffee/ Biscuits ) (3.30 PM to 3.45 PM)</b>	
<b>Practical -VIII</b> 3.45 – 5.00 PM	<b>Confirmatory Factor Analysis (CFA) using AMOS Based on Multi Factor</b> 1. Average Variance Extracted (AVE) 2. Construct Reliability (CR) 3. Convergent Validity 4. Discriminant Validity
<b>Feedback, Valedictory &amp; Certificate Distribution (5.00 PM to 6.00 PM )</b>	
<p><b>Dr. R K Gopal</b>, Professor in Marketing, PES University, Bangalore  <b>Dr. Rev. Fr. Anil Sequeira</b>, Vice-Rector, Darshan Institute of Theology, Kengeri.  <b>Prof. Fr. George Monis</b>, Principal, Darshan Degree College, Kengeri.  <b>Dr. V. Selvaraj.</b>, Secretary of Primax Foundation, Bangalore, Karnataka.</p>	

**Convener**

**Prof. Jayamahadeva Swamy**,  
HOD, English Department,  
Darshan Degree College, Kengeri  
Ph: 991646436

**Prof. Basanthi Goswamy**,  
HOD, Commerce Department,  
Darshan Degree College, Kengeri  
Ph: 9060720242

**Prof. Bharathi P.**,  
HOD, Hindi Department,  
Darshan Degree College, Kengeri  
Ph: 9632465776

**REGISTRATION FEE**

Participants Fee	Amount
Research Scholar (P.hD. & M.Phil)	INR 1,800 /-
Faculty	INR 2,000 /-
Corporate	INR 3,500/-

- ◆ The fee includes the Registration fee, Workshop kit, Materials, Certificate, Demo Software, Refreshment, and Executive Lunch
- ◆ Accommodation will be provided to outstation participants on prior request at additional cost.
- ◆ No spot registration
- ◆ Participants are requested to carry their own laptop for practical sessions.

The Participants are requested to send registration form along with the fee in the form of NEFT/ DD drawn in favour of **"PRIMAX FOUNDATION"** payable at Bangalore on or before **10-8-2018**

**NEFT**

Name of the Account : Primax Foundation  
 Account No. : 166111100001608  
 (Current Account)  
 Bank Name : Andhra Bank  
 Place : Kengeri Satellite Town,  
 Bangalore-60  
 IFSC Code No. : ANDB0001661  
 MICR CODE : 560011038

**Postal Address**

**Prof. T.Rajeswari**  
 President, Primax Foundation  
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 Viswa Vidyalaya PO,  
 Nagadevanahalli, Bengaluru –560 056,  
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 Primaxfoundation2015@gmail.com

**Best Wishes from**



**Prof. T. Rajeswari.**, M.Sc.,M.A(Eng),M.A (SOC),M.B.A.,(Ph.D)

President, Primax Foundation, Bangalore. 56

She is the founder of primax foundation, is an educationalist and a visionary with lot of innovative ideas. She is a staunch believer that "Progress can be attained only by research activities". As the President, she will spearhead all efforts and we will work to the best of our abilities. We look forward to continuously receive the support and encouragement from our faculty. I would like to personally invite you to our 10<sup>th</sup> Two Day – National Level Workshop **25<sup>th</sup> and 26<sup>th</sup> August 2018**