

Application of Biostatistics in Clinical Research

20 - 23 February 2019

Venue:

Biostatistics Lecture Hall,
Dr. M.V. Govindaswamy Centre,



Department of Biostatistics
National Institute of Mental Health
and Neurosciences
(Institute of National Importance)

Bengaluru – 29

Co-ordinators

Dr. Mariamma Philip,
Associate Professor

Dr. Prathyusha PV
Research Assistant

Course Description:

This 4-day programme mainly consists of lectures and practical sessions with emphasis on examples from medical and behavioural sciences. Delegates would have hands on exposure on bivariate and multivariate data analyses using the software SPSS.

Course contents

- Study Designs
- Sampling Techniques
- Bivariate Analyses (t-test, ANOVA, Chi-square, Correlation – and Non-parametric methods)
- Multiple Linear & Logistic regression analysis
- Analysis of covariance,
- Repeated Measures ANOVA
- Factor Analysis
- Survival Analysis
- Sample size estimation
- Mediation Analysis

Objectives of the course:

To enable delegates

- To efficiently design studies
- To comprehend the application of statistical tests.
- To confidently analyse datasets.

Who can apply?

This programme is intended for post graduates, researchers, junior as well as senior faculty from medical, behavioural and allied health sciences who are keen on furthering their knowledge in statistical methodology.

Registration

The number of participants will be restricted to about 45 and will be on a first come first serve basis.

Registration Fee

The course fee of Rs.4000/- to be paid through NEFT or through DD drawn in favour of “The Director, NIMHANS” payable at Bangalore. Please mention your name on the flip side of DD. Course fee includes training, resource material and hospitality during the day. Those who wish to attend the first 3 days need to pay only Rs. 3000/-.

Accommodation

Limited in-campus non-A/C accommodation could be provided on request (subject to availability). Rs.300/day for double occupancy and Rs.600/day for single occupancy, to be paid at the guest house.

How to register?

Registration can be made online using the [Registration form](#). Please note that online registration would be active only for the first 45 registrations. Registration would be confirmed only after the receipt of the payment.

Contact information

Dr. Mariamma Philip / Dr. Prathyusha PV
Dept. of Biostatistics,
Dr. M V Govindaswamy Centre,
NIMHANS, Bangalore-29
Ph: 080-26995717 / 5715
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Department of Biostatistics

National Institute of Mental Health and Neuro Sciences (NIMHANS), Bangalore.

PAYMENT DETAILS

Amount: Rs. 4000/- or Rs. 3000/- (for 3 days 20th-22nd)

Mode: NEFT / DD

Account Holder's name: The Director, NIMHANS

Account name: NIMHANS Project Account

Account number: 54004640402

Account Type: Savings

MICR code: 560002480

IFSC code: SBIN0040675

Branch Code: 40675

Branch: State Bank of India, NIMHANS Branch

Note:

Please send NEFT transaction receipts to the e-mail id nimhans.workshop@gmail.com

Demand Drafts should be drawn in favour of "The Director, NIMHANS" payable at Bangalore.

Please mention your name on the flip side of DD.

DD need to be send to us at the following Address

Dr. Mariamma Philip
Dept. of Biostatistics,
Dr. M V Govindaswamy Centre,
NIMHANS, Bangalore-29
Ph: 080-26995717

“APPLICATION OF BIostatISTICS IN CLINICAL RESEARCH”

Department of Biostatistics, Dr. M.V. Govindaswamy Centre, NIMHANS, Bangalore

DATE: 20 - 23 February 2019

VENUE: Biostatistics Lecture Hall

20-2-2019		21-2-2019	
8.30 - 9.00	Registration	8.45 - 9.15	Breakfast
9.00 - 9.45	Inauguration & Group Photo	9.15 -10.00	Analysis of covariance
			Practical III
9.45 - 10.15	Breakfast	10.00 -11.15	Study Designs <i>(Observational & Experimental)</i>
10.15 -10.30	Introduction of participants		
10.30 - 12.00	Descriptive statistics <i>(Descriptive stats, Normality)</i>	11.15 -11.30	Tea Break
		11.30- 12.30	Sampling Techniques <i>(Random & Non random)</i>
12.00 - 1.15	Basics of Inference <i>(SE, CIs, types of errors; p-value, power, tails)</i>	12.30 - 1.15	Non parametric Methods <i>(Mann Whitney, Wilcoxon Sign Rank, Kruskal wallis tests)</i>
1.15 - 2.00	Lunch	1.15- 2.00	Lunch
2.00 – 3.00	Practical - I <i>(Introduction to SPSS)</i>	2.00 – 3.00	Practical IV <i>(Mann Whitney test, Wilcoxon Sign Rank, Kruskal wallis tests)</i>
3.00 -3.45	Comparison of Means <i>(t-test, paired t-test, ANOVA)</i>	3.00 – 3.45	Categorical Data Analysis <i>(Chi-square & Mc Nemar’s test)</i>
3.45 - 4.00	Tea Break	3.45 – 4.00	Tea Break
4.00 – 5.00	Practical – II <i>(t-test, paired t-test, ANOVA)</i>	4.00 – 5.00	Practical – V <i>(Chi-square & Mc Nemar’s test)</i>

“APPLICATION OF BIOSTATISTICS IN CLINICAL RESEARCH”

Department of Biostatistics, Dr. M.V. Govindaswamy Centre, NIMHANS, Bangalore

DATE: 20 - 23 February 2019

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22-2-2019		23-2-2019	
8.45 - 9.15	Breakfast	8.45 - 9.15	Breakfast
9.15 -10.00	Relationship among variables (<i>Correlation - Linear & non Linear</i>)	9.15 – 10.00	Analysis of Repeated assessments (<i>RMANOVA, Friedman Test</i>)
10.00 -11.00	Prediction of a continuous variable (<i>Simple → Multiple Linear Regression</i>)	10.00 -10.30	Practical – IX (<i>RMANOVA, Friedman Test</i>)
		10.30 -11.30	Survival Analysis (<i>Intro, KM curve, log rank test</i>)
11.00 -11.15	Tea Break	11.30 – 11.45	Tea Break
11.15 -12.15	Practical – VI (<i>Correlation & Linear Regression</i>)	11.45 -12.30	Practical – X (<i>KM curve, log rank test</i>)
12.15 – 1.15	Prediction of a binary variable (<i>Simple → Multiple Logistic Regression</i>)	12.30 – 1.15	Scale Construction
1.15- 2.00	Lunch	1.15 - 2.00	Lunch
2.00 – 3.00	Practical VII (<i>Simple → Multiple Logistic Regression</i>)	2.00 – 3.00	Factor Analysis
3.00 – 3.45	Sample Size Estimation	3.00 – 4.30	Practical – XI
			Mediation Analysis
3.45 – 4.00	Tea Break	4.30 - 4.45	Practical – XII
4.00 – 5.00	Practical – VIII (<i>sample size estimation</i>)	4.45 – 5.15	Feedback & Certificate Distribution