



# St. John's Medical College & St. John's Research Institute



St. John's National Academy of Health Sciences, Bangalore - 560034



## Workshop on Health Science Data Analysis using R - A Free Analytical Platform

March 15 - 16, 2018

### WORKSHOP OBJECTIVES

This workshop will be a hands on training in data analysis using R statistical software along with a combination of lectures, discussions, and guided assignments, to help participants understand the concept and application of quantitative methods in health research. Through this workshop participants will be able to

- > Understand the basic concepts of statistical analysis.
- > Understand the fundamentals of R computing and analytical environment.
- > Perform descriptive and inferential analysis of their own data using R /R Commander—a graphical user interface package like other popular GUI software (SPSS, STATA, Minitb etc.)



### R SOFTWARE

R is one of the most popular open source software, widely used by scientists across the disciplines and it has been continuously upgraded by the R Core Team across the globe. It is under General Public License, no need to purchase/renew.

### WHO SHOULD ATTEND

Any person with a background in the health sciences, health policy, or health administration, who is desirous of improving their understanding on quantitative research methods and enthusiastic to develop computational skill under open source platform. This course would be relevant for post graduate students in the health sciences, and those involved in public health, research.

### RESOURCE PERSONS

Faculty will be from St. John's Medical College & Research Institute

*Deen Rohi*

*Circle to  
know more  
BY PMR  
10/10/18*

### VENUE:

St. John's Medical College, Bangalore

### TUITION FEE:

Before 11th March Rs. 3,000/-

After 11th March Rs 3,500/-

Workshop fee includes tuition fee, lunch and workshop materials.

\* Cancellation will be processed only after 16th March 2018. 20% will be deducted from the course fee

E-mail: [biostatws@stjohns.in](mailto:biostatws@stjohns.in)

## SCHEDULE

Day	Time	Session	Topic
Day 1	9:00 – 10:15 am	<a href="#">Session 1</a>	Introduction to basic quantitative methods
	10:30 – 11:30 am	<a href="#">Session 2</a>	Tea Break Introduction to R– an open source software
	11:30 – 12:30 pm	<a href="#">Session 3</a>	Exploration of data using R
	1:15 – 2:00 pm	<a href="#">Session 4</a>	Lunch break Graphical representation of data
	2:00 – 3:00 pm	<a href="#">Session 5</a>	Graphs in R
	3:15 – 4:00 pm	<a href="#">Session 6</a>	Tea Break Probability & sampling
	4:00 – 4:30 pm	<a href="#">Session 7</a>	R Case study
Day 2	9:00 – 10:30 am	<a href="#">Session 1</a>	Introduction to Inferential Statistics- T test & ANOVA
	10:00–10:30	<a href="#">Session 2</a>	Introduction to R Commander (Rcmdr) package
	10:45 – 11:30am	<a href="#">Session 3</a>	Tea Break Correlation & Regression
	11:30 - 12:30pm	<a href="#">Session 4</a>	R Practical for inferential statistics
	1:15 – 2:00 pm	<a href="#">Session 5</a>	Lunch Break Categorical data analysis - Chi Square test
	2:00– 3:00pm	<a href="#">Session 6</a>	R practical for categorical data analysis
	3:15 – 4:00pm	<a href="#">Session 7</a>	Tea break Non-Parametric statistics
	4:00 – 4:30 pm	<a href="#">Session 8</a>	R practical for nonparametric statistics

\*Participants should bring their own laptop for the practical sessions.

### REGISTRATION:

Download registration form from [www.stjohns.in](http://www.stjohns.in)  
Filled registration form should be mailed to [biostatws@stjohns.in](mailto:biostatws@stjohns.in)

Fee should be paid through NEFT.

### ACCOUNT DETAILS:

Beneficiary name: St. John's Medical College;  
Bank name: Bank of Baroda;  
Beneficiary's Bank A/c #: 05210200000212;  
Branch: John Nagar,  
IFSC code: BARBOSTJOHN (5th digit zero)

### FOR FURTHER ENQUIRY AND REGISTRATION, CONTACT

Dr Tinku Thomas, PhD  
Course Director  
Head, Department of Biostatistics  
St. John's Medical College  
Bangalore – 560034

Dr. Santu Ghosh, PhD  
Asst. Prof., Department of Biostatistics  
St. John's Medical College  
Office: 080-4946-6123/7036 /7029  
Mobile: 9941005569

### ACCOMMODATION:

Participants will have to bear their own travel and accommodation expenses.  
Accommodation inside St. John's campus can be arranged on request.

E-mail: [biostatws@stjohns.in](mailto:biostatws@stjohns.in)