St. John's Medical College





FUNDAMENTALS OF R-PROGRAMMING



OVERVIEW

This course aims to aid individuals in the field of health science, health policy and health administration who are keen on developing their knowledge in quantitative research methods and building computation skills under an open-source platform.

OBJECTIVES

Through the completion of this course, individuals will be able to

- Understand the fundamentals of R, a widely known open-source language.
- Explain the basic ideas of programming in R, such as functions, variables, data types, pipelines, and vectors.
- Create summary tables using R
- Create basic bar charts, histograms, pie charts, scatter plots, line plots, box plots, and maps using R
- Conduct data analysis

DURATION

Weekly 2 classes on Monday and Friday, 2 hours each for 12 weeks from

23 JAN 2023 - 14 APR 2023.

Time: 6pm - 8pm IST

Registration closes on 16th JAN 2023

PRE-REQUISITE

Basic knowledge in mathematics

MATERIALS

Lectures and course handouts will be provided.

EVALUATION

Credit will be given for completing all assigned weekly homework exercises.

FEES

Rs 11,800(Including GST) /-

MODE

Online - Zoom Meeting



CONTACT

Office: 080-4946-7036/6123

Mobile: +91 9538147676

Email: biostatws@stjohns.in

5000 10000 15000 20000



SYLLABUS

Introduction, Installation, and orientation Basic operations and data structures in R Data import, export, and manipulation Control Structures and Repeat Operations Functions in R Learning Debugging through developing and using user-defined functions in R Data Visualization using Base R Data Visualization using ggplot2 Exploratory data analysis in R Statistical inference using R Multivariate data analysis using R

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A case study using R

- 1. Pay course fee through NEFT
- 2. Complete registration by filling the google form.

www.stjohns.in/www.sjri.res.in

Registration closes on 16th JAN 2023

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Evaluation Scheme			
Topic	Method		
Basic operations in R	Assignment		
Data manipulation and	Assignment		
control structures			
Functions and debugging	Assignment		
Visualization	Assignment		
Statistical analysis	Assignment		
All topics	Final Exam		

ACCOUNT DETAILS

Beneficiary name: St. John's Medical College

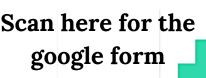
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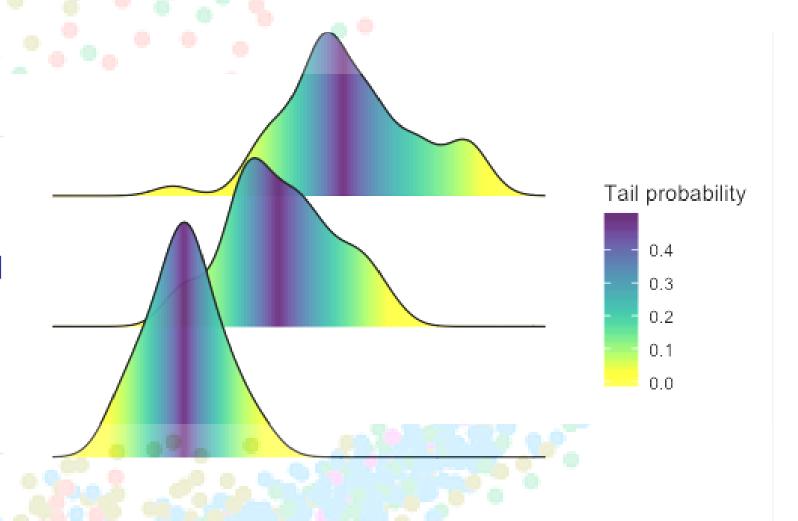
Beneficiary's Bank A/c#: **05210200000212**

Branch: John Nagar

IFSC Code: BARBOSTJOHN (5th digit zero)







COORDINATORS

Dr. Tinku Thomas (HOD & Professor) Dept of Biostatistics St John's Medical College, Bangalore Dr. Santu Ghosh (Asst Professor) Dept of Biostatistics St John's Medical College, Bangalore