

Workshop Objectives

This hybrid course in Epidemiology and Biostatistics has an online introductory component spread over a week prior to the start of the course and an intensive 8-day face-to-face component. Completion of quizzes at the end of online phase is mandatory prior to attending the face-to-face course.

The course introduces research methods, epidemiological designs, and statistical analyses in relation to health sciences. The course aims to integrate theory and application in epidemiology, clinical medicine, public health, and biostatistics.

- ◆ The workshop is designed to address each study design using a specific example
- ◆ The study designs and associated biostatistical methods will be dealt with together such that the knowledge gap in adopting a statistic to a study design will be addressed
- ◆ Hands-on experience for both designing a study and performing statistical analysis will be provided
- ◆ **THIS YEAR** —> owing to the **COVID crisis, we will start with only the online component for NOW**

Who should attend

This workshop is primarily planned for faculty and postgraduate medical/allied health sciences students, PhD students, post-doctorates and others associated with health research.

No prior knowledge of research methods or statistics is required.

Organization and delivery

Course faculty will be from St. John's Medical College & Research Institute. Guest lectures by eminent faculty will be included. All course material will be provided.

Registration

Registration is now open. Filled registration form (www.sjri.res.in) can be submitted on a rolling basis throughout June-August 2020.

Please visit www.sjri.res.in

These sessions will be open to you for a month (or) up until 1 week before the start of the face-to-face component of the course, whichever is earlier.



Be Aware – Be Safe

For further enquiry and registration, contact:

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St. John's Research Institute (SJRI)
St. John's National Academy of Health Sciences,
Bangalore – 560034

Theory and Practice of Epidemiology and Biostatistics (EpiBio)

Hybrid course (online & face-to-face)

Dates:

Online course: June-August 2020
*On-site course: **sometime in 2020***



Venue: **study-from-home**

Tuition fee:

On-line component: course fee = 0;
Face-to-face component: to be decided
LATER based on COVID situation

E-mail: epibio@sjri.res.in

Online Course (June—August 2020)

Overview of the course: Dr Prem K Mony

Module 1

Health Research Methods : Dr Prem K Mony

Module 2

Introduction to Biostatistics Part I: Dr Tinku Thomas
Introduction to Biostatistics Part II: Dr Tinku Thomas

Module 3

Design of Research Protocol: Dr Prem K Mony

Module 4

Review of Literature: Dr Prem K Mony

Module 5

Questionnaire Design: Dr Tinku Thomas

Module 6

Introduction to Data Management: Mrs Sumithra Selvam
Introduction to SPSS: Mrs Sumithra Selvam

Online Course structure

The online course has 6 modules. Each module has:

1. A Video
 2. A Set of slides
 3. Module assessment (quizzes)
 4. Doubts and queries section
 5. Feedback form
- You are expected to watch each video and download the slides to revise the concepts before proceeding to the module assessment
 - The module assessment is by Multiple Choice Questions (MCQs). You will be marked on your answers. You can attempt these quizzes multiple times and you need to score 80% in each module
 - You can send us your doubts/clarifications for a given module in the 'doubts and queries' section. These will be addressed in the face-to-face/chat session
 - Lastly, you are encouraged to fill the feedback form to help us improve the course for future students

**On-site course: based on COVID
situation**

		TUESDAY 0	WEDNESDAY 0	THURSDAY 0	FRIDAY 0	SATURDAY 0		MONDAY 0	TUESDAY 0	WEDNESDAY 0
Theme		Introduction	Descriptive/Cross-sectional study		Experimental Study	Case-control/Cohort		Miscellaneous	Presentations	Miscellaneous
9:00-9:30		Registration & Inauguration	Review & feedback	Review & feedback	Review & feedback	Review & feedback		Review & feedback	Review & feedback	Review & feedback
Morning		Overview	Descriptive Study	Sample Size	Experimental Study	Cohort Study	S U N D A Y	Intro to Regression analysis	Group 1 presentation	Qualitative Research
		Introduction to Epi—I							Group 2 presentation	
10:45-11:00		Tea	Tea	Tea	Tea	Tea		Tea	Tea	Tea
Pre-lunch		Intro to Biostatistics - II	Study Formulation	Quality Control in Data Collection	Clinical Trial-Formulation/GCP	Case-Control Study		Using Word Processor	Group 3 presentation	Scientific Reporting
			Sampling Technique	Epidemiology Exercises	Randomization & Masking			Non-randomized trial designs	Group 4 presentation	Referencing
12:45-1:45		LUNCH	LUNCH	LUNCH	LUNCH	LUNCH		LUNCH	LUNCH	LUNCH
Post-lunch		Intro to Epi - II	Epidemiology Exercises	Chi-square & Correlation	Randomization Exercises	Epidemiology Exercises		Test Accuracy Studies	Applied Health Research	Valedictory
					Sample size	Sample size				
3:00-3:15		Tea	Tea	Tea	Tea	Tea		Tea	Tea	
Post-tea		QR code quiz	Testing of Significance	Regulatory & Ethical Issues; Budgeting	Comparison of Means	Group-work planning		Non-parametric statistics	Systematic Review/ Grading Evidence	
Evening		Practicals	Practicals	Practicals	Practicals		Practicals			

Additional 1-day Demography course will continue after EpiBio.
Details on SJRI website—www.sjri.res.in

	THURSDAY 0
9:00-9:30	Registration
Morning	Intro to Demography
	Distribution/composition of populations
10:45-1:00	Tea
Pre-lunch	Demographic processes & measurements
	Demography exercises
12:45-1:45	LUNCH
Post-lunch	Cause of death –Verbal autopsy
	Death certification & ICD-10 coding
3:00-3:15	Tea
Post-tea	Comparison of populations
	Family planning