

## Short-Term Course

# “Foundations of Quantitative Approaches for Interventional Studies”

Thursday, 17<sup>th</sup> November to Saturday, 19<sup>th</sup> November, 2022 @ IIT Kharagpur – Kolkata Extension Campus

**Intended audience:** Post-graduate students, PhD students, Post-doctoral students and trainees, Junior Scientists, Senior Residents, and faculty members up to the rank of Assistant Professors (Community Medicine, Public Health, Nutrition, Psychology, and Clinical disciplines)

Course fees (including course materials): **Rs. 4000** per participant

No. of participants will be restricted to **25** on a first-come-first-served basis

**Registration closes on Friday, 4<sup>th</sup> November, 2022**

### Organizing team:

- ◆ Dr. Arista Lahiri, Community Medicine, Dr. B. C. Roy Multi-Speciality Medical Research Centre, IIT Kharagpur
- ◆ Dr. Parmeshwar Satpathy, Community Medicine, Dr. B. C. Roy Multi-Speciality Medical Research Centre, IIT Kharagpur
- ◆ Dr. Sumana Samanta, Community Medicine, Dr. B. C. Roy Multi-Speciality Medical Research Centre, IIT Kharagpur
- ◆ Dr. Sweety Suman Jha, Community Medicine, Dr. B. C. Roy Multi-Speciality Medical Research Centre, IIT Kharagpur

### Course faculties:

- \* Dr. Arista Lahiri, Community Medicine, Dr. B. C. Roy Multi-Speciality Medical Research Centre, IIT Kharagpur
- \* Dr. Parmeshwar Satpathy, Community Medicine, Dr. B. C. Roy Multi-Speciality Medical Research Centre, IIT Kharagpur
- \* Prof. Debjani Chakraborty, Dept. of Mathematics & Associate Dean (Outreach), IIT Kharagpur
- \* Dr. Saibal Das, Scientist D, Indian Council of Medical Research – Center for Ageing and Mental Health, Kolkata
- \* Dr. Indranil Saha, Scientist E, Indian Council of Medical Research – Center for Ageing and Mental Health, Kolkata
- \* Dr. Bobby Paul, Professor, Dept. of PSM, All India Institute of Hygiene and Public Health, Kolkata

### Course Content:

#### Day 1:

- ✦ Introduction to Different Interventional Studies in Health Sciences
- ✦ Designing Appropriate Interventional Studies
- ✦ Preparation for Data Analysis
- ✦ Basic Analytic Designs in Interventional Studies
- ✦ Descriptive analysis of Intervention Data

#### Day 2:

- ✦ Regression analysis
- ✦ Analysis of Single Interventions
- ✦ Analysis of Multiple Interventions: Factorial Design
- ✦ Handling Missing Data

#### Day 3:

- ✦ Special Issues: Interim Analysis, Stoppage Rule, Ridge-regression
- ✦ Ethics in Interventional Studies

- There will be **hands-on** sessions along with theoretical discussions.
- Participants have to bring their own Laptops; relevant software will be provided to the participants.
- For hands-on activities, the primary statistical software of instruction will be **SPSS/Stata**.

✉ For any query: please mail us at [cm.bcrsmrc@gmail.com](mailto:cm.bcrsmrc@gmail.com)