

Certificate Course in Biostatistics, Epidemiology and Research Methodology

Offered by

Department of Data Science, Prasanna School of Public Health (PSPH),
Manipal Academy of Higher Education (MAHE), Manipal – 576104, Karnataka

About the Course: This course aims to enable healthcare professionals to enhance their skills in research methodology, biostatistics, and epidemiological methods. The course also prepares the participant to critically assess scientific research. Through sessions on scientific writing and protocol presentation, the course trains the participant for effective research dissemination. Launched in the year 2009, this certificate programme emphasizes on problem-based, activity-centric learning which encompasses assignments, group discussions and hands-on exercises using R.

Number of Credits: Six

Mode of Teaching: Online through Microsoft Teams

Course Contents: Introduction to biostatistics, Sampling methods, Descriptive statistics, Introduction to Normal distribution, Introduction to sampling distribution, Standard error, Confidence interval and sampling distribution, Statistical inference: introduction, parametric and non-parametric methods, Sample size determination in health science research, Measures of agreement (Kappa statistics and Intra-Class Correlation), Correlation and regression analysis, Introduction to survival analysis, Introduction to systematic reviews and meta-analysis, Epidemiological study designs and basic experimental designs, Epidemiological measures. Reliability and validity of screening and diagnostic tests, ROC analysis. Development of research tools, Protocol preparation. Training on Latex - a software for document preparation, Proposal writing, Report writing and publishing, Critical review of research report and journal article.

Eligibility Criteria: Graduates / Interns / Post-Graduates and PhD in Medical Sciences, Pharmaceutical / Paramedical / Life Sciences and Public Health / Allied Health.

Fee Structure

Internal*	External	International
INR 13,000/-	INR 22,000/-	USD 1500

* Staff and Students of MAHE

Important Dates

- Registration start date: 28/06/2021.
- Last date for registration: 30/07/2021.
- Commencement of classes: 02/08/2021.
- Date of final examination: 03/10/2021.

Admission Procedure: Interested participants can complete the registration process through the following link <https://sis.manipal.edu/CertificateCourses.aspx>

- External candidates: C66
- Internal candidates: C65
- Full time PhD scholars of MAHE: C71

Upon completion of fee payment, an acknowledgement of fee payment and registration number will be generated automatically.

Admission process for this course is on first-come-first-serve basis and the last date for registration to the course is 30/07/2021 (Friday).

Class Duration: Classes will be held for 10 weeks starting from 02/08/2021 (Monday). Every week classes will be held on Monday, Wednesday, and Friday (except for the national holidays/festivals). Final examination will be conducted on 03/10/2021 (Sunday). The class timings will be 18:00 – 20:30 hours IST (except for the day of the final examination).

Assessment: Assessment will be based on completion of assignments and performance in the test conducted at the end of the course. The participant must obtain at least 40 percent (55 percent for PhD scholars of MAHE) in the test to avail the course completion certificate.

General Instructions

1. Admission to the course can be obtained only through the online portal. Personal requests to Admission Section, MAHE or to the Department of Data Science will not be considered.
2. For internal and external candidates, admission will be confirmed only after the successful payment of course fee.
3. The course fee will not be refunded under any circumstances.
4. Batch change will not be permitted: Participants enrolled to a batch have to complete the course in the same batch.
5. Those who are not able to clear the final examination in their first attempt shall make a payment of INR 600/- towards the re-examination. A candidate has to clear the examination within three attempts.

Course Coordinator

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