

Guest Speaker:

The experienced and renowned faculties and scientists from various prestigious research institutes like:

- All India Institute of Medical Sciences, New Delhi
- National Institute of Medical Statistics, ICMR, New Delhi
- National Institute of Cancer Prevention & Research, ICMR
- Postgraduate Institute of Medical Education and Research
- Jawaharlal Institute of Postgraduate Medical Education and Research
- National Institute of Mental Health and Neurosciences
- Christian Medical College, Vellore
- Banaras Hindu University, Varanasi
- Aligarh Muslim University, Aligarh
- Jawaharlal Nehru University, New Delhi
- Eminent faculties from State Medical Colleges

Coordinator:

National Coordinator

Shubham Pandey
Assistant Professor & Head
Department of Biostatistics
Himalayan Institute of Medical Sciences
Swami Rama Himalayan University
Dehradun

Regional Coordinator:

Dr. Simmi Kharb,
Professor,
Department of Biochemistry & Nodal Officer, MRU,
Pt. B. D. Sharma PGIMS
Rohtak, Haryana



INTRODUCTORY COURSE ON RESEARCH METHODOLOGY

&

BIostatISTICS

28th To 29th November

Under

Dr. Padam Singh Research & Development Scheme



(Division of Epidemiology & Biostatistics)

INDIAN COUNCIL FOR MEDICAL RESEARCH
SPONSORED BY



INSTITUTE OF APPLIED STATISTICS

ABOUT THE COURSE

Great teachers create great students. An inspiring and informed teacher is the most important factor influencing student performance, and therefore it is critical to pay close attention to how we train and support both new and experienced educators in their endeavor to Educate. Education serves to liberate and promote equality of opportunity. If Education is not based upon research and evidence, then it runs the risk of being based upon dogmas, theories, ideologies and the like.

Education therefore must be deep-seated in research, as only research can generate useful insight and confidence in an academician. Sound conceptual understanding of various research methods, research instruments, tools and techniques is an essential prerequisite in conducting empirical research. For undergoing high quality research and writing good research papers, one requires to collect, interpret and logically document the information. The art of drawing coherent conclusions, supported by appropriate research tools and reference citation is vital for quality research work.

This workshop focused on the procedure to do quality research. As a researcher it is mandatory for one to know the basics and have a core idea in order to satisfy the purpose of research and establish an acceptable conclusion. This course has given this opportunity to the academicians to enhance the knowledge of biostatistics, their researching skills and understand the methodologies. The FDP summarized the aspects relating to the fundamental, study design, collection of data, hypothesis and analyzing. This FDP intended to orient participants towards developing their own research plans with due attention at every stage of research.

OBJECTIVE

- To focus on Biostatistics and Epidemiology in the medical/Dental/Nursing Research and give a demonstrate knowledge and scientific research in health-related fields, including medicine, biology, and public health, and the development of novel methodologies for understanding statistical theory.
- Explain the concepts of biostatistics & epidemiology, and to perform the computations involved in statistical techniques

WHO SHOULD ATTEND

Doctors / faculty, any Research scholar of any Medical or non-medical colleges / Universities

FEES: Rs.1500/- + 18% GST

(It covers Registration fee, working lunch, Tea & snacks and study material)

Note: Demand draft will be made in favor of **Institute of Applied Statistics.**

Or for online transaction:

Account Name: - Institute of Applied Statistics

A/c Number: - 38398638153

IFSC code: - SBIN0016581

(scan QR code for payment)



COURSE CONTENT

- **Fundamentals of Research**
Introduction and objectives, characteristics, Components and its types, Research process, planning a research study, review of literature, formulation of research problem, identifying variables and Fundamentals and Role.
- **Epidemiology & Study Design**
Fundamentals and Role of epidemiology, Measure of diseases frequencies, Cohort study, Cross-section study, Case control study, Qualitative research. Research Design, types of study designs, Measurement and Scaling techniques.
- **Data Collection**
Method of data collection, Survey design (including questionnaire and question design), Different types of surveys, Measurement bias, Framing bias, Response bias, Non-response analysis, Methods used to help correct for bias, Data linkage.
- **Descriptive Statistics**
Introduction of descriptive statistics, exploratory data analysis, measure of central tendency, measures of variation, graphical summaries of data.
- **Inferential Statistics**
Random experiment, sample space, random variable and its distribution, central limit theorem, Estimation: Single and two populations, testing of hypothesis, time series analysis.