

JOINT STATE TRAINING CENTER

DR. PADAM SINGH RESEARCH & DEVELOPMENT SCHEME

PARUL UNIVERSITY

VADODARA, GUJARAT

&

INSTITUTE OF APPLIED STATISTICS

KANPUR, UTTAR PRADESH



Jointly Organizes

Workshop on

INTRODUCTORY COURSE ON RESEARCH METHODOLOGY & BIOSTATISTICS



18 December - 19 December, 2023



09:00 AM - 05:00 PM



Central Auditorium, Parul University, Vadodara, Gujarat - 391760



CHIEF GUEST

Dr. Padam Singh

Former Additional Director General
Indian Council of Medical Research (ICMR)
New Delhi

Patron



Dr. Geetika M. Patel

Vice President
(Quality, Research & Health Sciences)
& Medical Director, PIMSR
Parul University Vadodara, Gujarat

Co-patron



Dr. Vijay Jagdish Upadhye

Deputy Director
Research and Development Cell (RDC)
Parul University, Vadodara, Gujarat



Dr. Malvika M. Tiwari

Director
Institute of Applied Statistics
Kanpur, Uttar Pradesh

State Coordinator



Dr. M. R. Yadav

Director
Research & Development Cell
Parul University, Vadodara, Gujarat

Guest Speaker



Dr. R. J. Yadav

Scientist Consultant
Ministry of Health and Family Welfare
Government of India
New Delhi



Dr. Atul Juneja

Former Scientist F
National Institute of Medical Statistics (NIMS)
Indian Council of Medical Research (ICMR)
New Delhi



Dr. Shubham Pandey

Project Director
Institute of Applied Statistics
Kanpur, Uttar Pradesh

INTRODUCTORY COURSE ON RESEARCH METHODOLOGY & BIOSTATISTICS



ABOUT THE COURSE

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.

OBJECTIVE

To focus on basic biostatistics and epidemiology in the Medical Research and give a demonstrate knowledge and scientific research in health-related fields and explain the concepts of basic biostatistics & epidemiology, and to perform the computations involved in statistical techniques

COURSE CONTENT

1. Basis Steps of Fundamental Biostatistics:

Research, Objectives of Research, Need and Purpose of Research, Types of Research, Research according to application or objectives, Scope and Areas of Research, Role of Statistics in Research.

2. Fundamentals of study Design Tools:

Study design, Experimental study design (Intervention Studies), Cohort Study, Case control study, Bias in case-control study, Cross sectional study.

3. Fundamentals of sampling & Data Collection:

Sampling, Probability or Random Sampling, Non-Probability Sampling, Selection of Subjects/Data collection, Techniques of Data Collection.

4. Fundamentals of Reliability & Validity of Data:

Study Tools, Introduction to Reliability & Validity, Sources of "Unsystematic" Threats to Reliability.

5. Fundamentals of Qualitative & Quantitative Analysis:

Qualitative analysis, Quantitative analysis.

6. Descriptive Statistics:

Tabulation Presentation - Introduction, Classification of Data.

Graphical Presentation - Introduction, General Rules for Graphic - Presentation of Data and Information, Types of Graphs, Pie Charts, The Histogram, Scatterplots, Line Graphs, Frequency Polygon or Histogram, Frequency Curve, Cumulative Frequency Curve or Ogive, Merits of a Graph presentation, Limitations of a Graph presentation.

Central Tendency - Introduction, Median, Mode, Geometric Mean, Harmonic Mean, Quartiles, Deciles, Percentiles, Measure of Dispersion, Kurtosis, Skewness.

7. Inferential Theory:

Inferential Statistics, Hypothesis Testing, Types of hypothesis, Power of a test and power function, Level of Significance, Concept of critical region, Two-Tailed Hypothesis Tests, One-Tailed Hypothesis Tests, Degree of freedom.

8. Fundamentals of Correlation & Regression Theory:

Correlation coefficient, Calculation of the correlation coefficient, Spearman rank correlation, Regression, Assumptions.



COURSE FEE

1180/- INR Per Participant
(18% GST Included)

REGISTRATION:

Where to Register:

- <https://iasdcs.com>
- Click on Workshop Registration
- Find Program List
- View Brochure/Register

Hard Copy of Certificate & Study Material will be provided to all registered participants.



WHO SHOULD ATTEND:

Doctors/Faculties, any Research Scholar of any Medical or non-medical colleges/Universities

ORGANIZERS:



Dr. M. R. Yadav

Director
Research & Development Cell
Parul University, Vadodara, Gujarat
&
State Coordinator,
Joint State Training Center - Gujarat
Dr. Padam Singh R&D Scheme



Dr. Shubham Pandey

Project Director
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