MD RESEARCH

Advanced Research & Methodology

Biostatistics Training 3 Month Intensive Research Training Program

Master clinical research with top global faculty, learn advanced methodologies, conduct research, and get published in high-impact journals.

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Why Choose Our Course?

Learn advanced research methodologies and biostatistics from top physician-scientists in the world.

Conduct systematic reviews, meta-analyses, and network meta-analyses.

Publish in high-impact, PubMed-indexed journals worldwide.

Gain a Clinical Research Training Certificate to enhance academic and professional credentials.

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Why learn from us?

We have a proven track record of success with many published articles in the world's premier journals.

Our students have published in prestigious journals such as:

- Journal of Complementary and Alternative Medicine.
- Journal of Integrative Medicine.
- BMC Complementary Medicine and Therapies.
- Complementary Therapies in Medicine.
- BMC Integrative Medicine.
- International Journal of Yoga.
- Frontiers in Medicine.

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Hybrid Learning Model for Maximum Impact

- 1-hour recorded lecture + 1-hour live one-on-one faculty interaction per session.
- Direct mentorship and personalized guidance for each student.

From Learning to Publication

- Participants don’t just learn- they are guided through the process of understanding the fundamentals of research.

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Course Structure

DURATION- 3 Months (12 weeks)
13th March - 13th August 2025

FORMAT

- Online + Personalized Mentorship.

CERTIFICATION

- This 12-module course provides a step-by-step structured Approach to research Methodology, statistical Analysis, and scientific writing.

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Modules Include:

Module 1: Foundations of Research

- Understanding research methods, methodology, and study design.
- Formulating hypotheses and research questions.
- Differences between qualitative and quantitative research.

Module 2: Research Designs & Clinical Trials

- Detailed exploration of experimental vs. observational study designs.
- Understanding randomized controlled trials (RCTs), cohort studies, case-control studies,and cross-sectional studies.
- Ethical considerations in research.

Module 3: Exploring Data & Concept of Probability

- Understanding types of data (categorical,continuous, ordinal).
- Data collection, organization, and presentation techniques.
- Probability theory, central limit theorem, and standard distribution curve.

Module 4: Biostatistics Fundamentals & Descriptive Analysis

- Measures of central tendency (mean, median, mode).
- Descriptive vs. inferential statistics.
- Introduction to statistical software (SPSS, R, Python, Statastics).

Module 5: Inferential Statistics & Advanced Analytics

- Hypothesis testing:p-values,confidenceintervals.
- Survival analysis and Kaplan-Meier curves.
- Diagnostic statistics: Sensitivity, specificity, predictive values.

Module 6: Conducting a Systematic Review

- Step-by-step methodology for conducting a systematic review.
- Database searches (PubMed, Scopus, Cochrane) and screening techniques.
- PRISMA guidelines and risk-of-bias assessment.

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Module 7: Introduction to Meta-Analysis

- Understanding effectsizesand heterogeneityassessment.
- Fixed-effect vs. random-effects models.
- Introduction to meta-analysis software.

Module 8: Conducting a Meta-Analysis

- Data extraction and coding.
- Pooling results and subgroup analysis.
- Publication bias and funnel plots.

Module 9: Statistical Interpretation of Meta-Analysis

- How to interpret forest plots and heterogeneity.
- Understanding confidence intervals and risk ratios.
- Common errors in meta-analysis interpretation.

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Module 10: Network Meta-Analysis

- Introduction to indirect comparisons and mixed treatment comparisons.
- Application of network meta-analysis in clinical decision-making.

Module 11: Research Proposal Writing & Medical Writing

- Writing a compelling research proposal.
- Basics of grant writing and funding opportunities.

Module 12: Manuscript Preparation & Journal Submission

- Structuring a high-impact scientific manuscript.
- Journal selection, formatting, and submission process.
- Responding to reviewer comments effectively.

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FACULTY & MENTORS

This course is led by renowned researchers and experienced faculty
members with a strong track record of high-impact publications

Dr. Indranill Basu Ray (**Program director**)
Dr. Dibbendhu Khanra
Dr. Manjunath NK
Dr. Bhushan Patwardhan
Dr. Kashinath G. Metri
Dr. Mrithyunjay Rathore
Dr. Sanjay S. Phadke
Dr. Keith C. Norris
Dr. Anindya Mukherjee
Dr. Dorairaj Prabhakaran
Dr. Paula R. Seffens
Dr. Debesh Mallik
Dr. Girish Baburao Kulkarni
Dr. Rima Dada
Dr. Harminder Grewal
Dr. Vaishali Deshmukh
Dr. Savithri Chandana Veluri
Dr. Sarita Bajaj
Dr. Jayasree Pillarisetti
Dr.Pawan Ojha
Dr. Shripad Pujari
Dr. Harish R. Joshi

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Secure your Residency position with the power of Research!

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and be part of a community shaping the future of health and wellness.

Contact us

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