



# 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, confidence intervals.
- 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**





# 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

**Kawana +91 9940281344**

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