



THE TRAINED NURSES' ASSOCIATION OF INDIA (TNAI) UTTARAKHAND STATE BRANCH

&

INSTITUTE OF APPLIED STATISTICS, KANPUR

A Statistical Training & Research Institute

Jointly Organized

Faculty Development Programme on

Research Methodology & Biostatistics



10 January to 15 February, 2026



Live Session : 05:00 PM to 07:00 PM

Under

Florence Nightingale Nursing R&D Scheme

-- Credit Hours Awarded by

Uttarakhand Nurses And Midwives Council

Convener



Dr. Rajesh Kumar Sharma
President

TNAI Uttarakhand State Branch
&
General Secretary & National Coordinator
Florence Nightingale Nursing R&D Scheme



Dr. Mamta
Secretary

TNAI Uttarakhand State Branch



Dr. Harleen Kaur
Chairperson

Education & Research Committee
and Coordinator of FDP



Mrs. Pushpa Rani
Treasurer

TNAI Uttarakhand State Branch
and FDP



Dr. Shubham Pandey
National Coordinator

Dr. Padam Singh R&D Scheme
Institute of Applied Statistics
Kanpur, Uttar Pradesh



Er. Amit Tiwari
Organizing Secretary

IT Head & I/C, RD Cell
Institute of Applied Statistics
Kanpur, Uttar Pradesh

Organizing Committee members

All State TNAI Executive Council Members

- Mr. Umesh Kumar Sharma
- Mrs. Priya JPN

- Mrs. Anita Adhikari
- Dr. Dipti Y Sorte
- Dr. Mehvish Khalid

- Ms. Anju Rani
- Mrs. Geeta Vishwakarma

Faculty Development Programme on RESEARCH METHODOLOGY & BIostatISTICS



ABOUT CERTIFICATE PROGRAMME ON RESEARCH METHODOLOGY & BIostatISTICS

The Faculty Development Programme (FDP) on Research Methodology & Biostatistics is a structured, practice-oriented training designed for medical, nursing, and health science professionals who wish to enhance their research capabilities and develop competence in scientific writing, data analysis, and evidence-based decision-making. This beginner-friendly FDP focuses on building a strong foundation in research design, epidemiological principles, data management, statistical analysis, and the use of modern analytical tools. The curriculum follows a step-by-step logical flow, starting from basic research concepts and progressing to data interpretation and reporting. Participants learn how to formulate research questions, develop study protocols, analyze data, and present findings in a scientifically sound manner.

OBJECTIVE

- To provide foundational knowledge of health research and biostatistics.
- To enable participants to formulate research questions, objectives, and hypotheses.
- To train participants in literature search and reference management.
- To introduce appropriate study designs, sampling methods, and data collection tools.
- To develop basic skills in data analysis using statistical software.
- To enhance the ability to interpret statistical results and write scientific reports.
- To prepare participants for conducting independent research projects.

WHO SHOULD ATTEND ?

- Medical and Nursing Faculty
- PG and PhD Scholars
- Medical Interns and Residents, Public Health Professionals
- Allied Health & Paramedical Educators
- Researchers and Academicians
- Anyone interested in learning of research methodology and biostatistics skills

WHY JOIN THIS COURSE?

- Gain a clear understanding of research methodology and biostatistics concepts.
- Learn step-by-step how to design, conduct, and analyze research.
- Build practical skills through hands-on sessions.
- Improve your ability to write research proposals.
- Strengthen academic and professional growth through evidence-based practice.
- Enhance your competence for PG/PhD research, promotions, and grant opportunities.
- Earn a recognized certificate to boost your academic profile.

PROGRAMME FEE:

- **TNAI Member: 1200/- INR**
- **All others: 1500/- INR**

*** TNAI Member need to submit their membership ID Card.*

- **E-Certificates will be provided to all the participants.**
- **Access of Recorded Session and PDF Notes will be provided.**

REGISTRATION:

For registration please visit our official website (click link):

www.iasdcs.com

OR

SCAN QR CODE →



DURATION OF THE PROGRAMME

10 January to 15 February, 2026



SCHEDULE AND TIMINGS

05:00 - 07:00 PM (As per schedule)

SESSIONS OFFERED ON PLATFORMS



Contact For Any Query ?



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FACULTY DEVELOPMENT PROGRAMME (FDP) ON RESEARCH METHODOLOGY & BIostatISTICS

Program Schedule - 10 Jan -15 Feb 2026



10 January 2026		Inaugural Ceremony & Overview of the Programme	
Session	Date	Topic	Resource Person
Week 1: Research Foundations			
01	12 Jan 2026	Introduction to Health Research - Meaning & Purpose of Research - Importance in Medicine/Nursing - Evidence-based Practice & Ethics Basics	Dr. Vaishali Mohite Dean cum Principal Krishna Institute of Nursing Sciences Krishna Vishwa Vidyapeeth (DU)
02	13 Jan 2026	Types of Quantitative Research	Dr. Harmeet Kaur Director & Principal Chitkara School of Health Sciences Chitkara University, Rajpura, Punjab
03	16 Jan 2026	Types of Qualitative Research & Mixed Methodology	Dr. Rajesh Kumar Sharma Professor Himalayan College of Nursing Swami Rama Himalayan University (SRHU), Dehradun
04	17 Jan 2026	Identifying Research Problems - Research Gaps & Sources of Problems - Characteristics of a Good Research Problem	Dr. Gopichandran L Faculty & Nursing Consultant NIMHANS, Bangalore
05	19 Jan 2026	Research Questions & Objectives - PICO Framework - Types of Objectives - Hypotheses - Null & Alternative	Dr. Raman Kalia Professor cum Principal Sarawati Nursing Institute, Dhianpura District Roop Nagar, Punjab
06	20 Jan 2026	Literature Search - Hands-on - PubMed Search & Google Scholar - Keywords Selection - Boolean Operators	Dr. Ramesh Chandrababu Professor & Head Deptt. Of Medical Surgical Nursing SRFON, SRIHER (DU), Chennai
Week 2: Study Designs & Sampling			
07	21 Jan 2026	Referencing Tools - Hands-on - Mendeley/Zotero Setup - Importing & Organizing Articles - Insert Citations & Auto-bibliography	Dr. Hitesh Khurana Professor, Dept. of Psychiatry, IMH Pt. B.D. Sharma PGIMS Rohtak, Haryana
08	22 Jan 2026	Descriptive Study Designs - Case Reports & Case Series - Cross-sectional Studies	Dr. Bindu Garg Professor & Head, Dept. of Physiology SRMS Institute of Medical Sciences, Bareilly, Uttar Pradesh
09	23 Jan 2026	Analytical Study Designs - Case-control Design - Cohort Studies - Measures of Association	Dr. Ratan Kumar Srivastava Dean Academics Prasad institute of Medical Sciences Lucknow, Uttar Pradesh
10	24 Jan 2026	Experimental Study Designs - RCTs - Blinding & Placebo - Clinical Trials Phases	Dr. Elsa Sanatombi Devi Director-MAHE FAIMER Professor & QM Manipal College of Nursing Manipal University
11	27 Jan 2026	Sampling Techniques & Sample Size - Probability & Non-probability Sampling - Sample Size Basics - Inclusion & Exclusion Criteria	Dr. Muthuvenkatchalam S Associate Professor, College of Nursing AIIMS, Mangla Giri



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FACULTY DEVELOPMENT PROGRAMME (FDP) ON RESEARCH METHODOLOGY & BIOSTATISTICS

Program Schedule



Session	Date	Topic	Resource Person
Week 3: Biostatistics Essentials			
12	28 Jan 2026	Basics of Biostatistics - Data Types & Variables - Scales of Measurement - Normal vs Skewed Data	Dr. Anil C. Mathew Professor of Biostatistics PSG Institute of Medical Sciences & Research, Coimbatore, Tamil Nadu
13	29 Jan 2026	Descriptive Statistics - Mean, Median & Mode - SD, Variance, Range & IQR - Data summarization	Dr. S. Opendra Singh Professor & Head, Dept. of Statistics Manipur University, Manipur
14	02 Feb 2026	Data Presentation - Tables, Graphs & Charts - Frequency Distribution Using Excel/SPSS	Dr. Bharat Pareek Professor, Akal College of Nursing Eternal University, Baru Sahib Himachal Pradesh
15	03 Feb 2026	Probability & Normal Distribution - Probability Rules - Normal Curve - Z-scores & Outliers	Dr. Suresh Kumar Sharma Professor & Ex-Chairman Department of Statistics Panjab University, Chandigarh
16	04 Feb 2026	Inferential Statistics - Concepts - Sampling Distribution - Standard Error - Confidence Intervals	Prof. A. Rajagopal Former Head, Statistical Quality Control and Operations Research Indian Statistical Institute (ISI)
Week 4: Data Analysis & Reporting			
17	05 Feb 2026	Hypothesis Testing - Basics - p-value - Type I & II errors - Overview of Parametric vs Non-parametric tests	Dr. Rimple Sharma Professor cum Principal AIIMS, Jammu
18	06 Feb 2026	Common Statistical Tests - Introduction to commonly used tests - When to use which test - t-test, Chi-square test & ANOVA etc.	Dr. Gopal Singh Charan Professor, MM College of Nursing MM University (DU), Mulana Ambala
19	09 Feb 2026	Statistical Analysis - Hands-on - Running Tests in Excel/SPSS/R - Practical Data Analysis with Sample Datasets	Dr. Ravi Prakash Jha Dept. of Community Medicine Dr. Baba Saheb Ambedkar Medical College and Hospital, New Delhi.
20	10 Feb 2026	Scientific Writing - Structure of Research Paper - IMRAD Format; - Abstract Writing & Referencing	Dr. Rajesh Kumar Associate Professor College of Nursing AIIMS, Rishikesh
21	11 Feb 2026	Research Proposal - Components of a Research Proposal - Protocol Writing	Dr. Manushi Srivastava Professor of Medical Sociology Institute of Medical Sciences Banaras Hindu University (BHU), Varanasi
15 February 2026		Assessment Test	

**** An online MCQ-based quiz will be conducted for each session for self-evaluation and practice.**



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ABOUT ORGANIZERS:

TNAI UTTARAKHAND STATE BRANCH

The Trained Nurses' Association of India (TNAI) is a national organization of nurse professionals at different levels. It was established in 1908 and was initially known as Association of Nursing Superintendents.

The Government of India has recognized TNAI as a service organization in 1950. A similar recognition by all the State Governments has been an asset to the promotion of its objectives. Foundation stone for TNAI Headquarters Inaugurated by Smt. Indira Gandhi laid by Dr. S Radhakrishnan



INSTITUTE OF APPLIED STATISTICS, KANPUR, UTTAR PRADESH

The Institute of Applied Statistics is a premier institution dedicated to building human resource capacity in Statistics through specialized training and multidisciplinary research. It conducts training programmes across the country and regularly organizes International, National, State, and Institutional level workshops for researchers and academicians.

The Institute's mission is to develop skilled professionals to meet emerging research challenges. It offers short- and medium-term programmes, develops need-based training modules in collaboration with experts, and provides consultation to government and private sectors in training design, survey implementation, and research activities.

CERTIFICATE PROGRAMME HIGHLIGHTS

- ✓ Comprehensive live sessions on Research Methodology & Biostatistics
- ✓ Expert-led hands-on sessions during programme and daily query discussions at the end of each session of the programme to address doubts with experts.
- ✓ Online Assessment Tests at the end of the programme for E-Certification.
- ✓ Online Self-Evaluation Quiz for revision of the topics learned.
- ✓ Study material in the form of PDFs will be shared with all registered participants of the programme.
- ✓ All registered participants will receive an e-certificate after completion of the programme on their registered email ID.
- ✓ Access to all recorded sessions of the programme for revision purposes.
- ✓ Opportunity to network with researchers and professionals.